

**Regular City Council Meeting  
Meeting Minutes**



**Tuesday, April 25, 2023 @ 6:00 PM**

**Anna Municipal Complex - Council Chambers  
120 W. 7th Street, Anna, Texas 75409**

The City Council of the City of Anna met on 04/25/2023 at 6:00 PM in the Anna Municipal Complex-Council Chambers, located at 120 W. 7th Street, to consider the following items.

**1. Call to Order, Roll Call, and Establishment of Quorum.**

Mayor Pike called the meeting to order at 6:00 PM.

**Members Present:**

Mayor Nate Pike

Mayor Pro Tem Lee Miller

Deputy Mayor Pro Tem Randy Atchley

Council Member Kevin Toten

Council Member Stan Carver

Council Member Danny Ussery

Council Member Pete Cain

**Members Absent:**

None

**2. Invocation and Pledge of Allegiance.**

Council Member Carver led the Invocation and Mayor Pike led the Pledge of Allegiance.

**3. Neighbor Comments.**

Justin Inesta spoke in support of Officer Community Engagement.

#### **4. Reports.**

- a. Recognition of Anna Police Explorer Post #8200 (Police Lieutenant Josh Devore)

On Saturday, March 25, the Anna Police Explorers traveled to Houston to compete in the 3rd Annual Houston Police Department Space City Explorer Competition. Anna Explorer Post #8200 took two teams of Explorers to the competition.

Both Anna teams competed in four different scenarios, meaning that Anna PD competed in a total of eight different scenarios. Anna PD competed in the following scenarios:

1. Active Shooter
2. Burglary in Progress
3. Traffic Accident Investigation
4. Bomb Threat
5. Felony Traffic Stop
6. Domestic Disturbance
7. APOWW- Mentally Unstable Person
8. Intoxicated Driver

Each team placed in three of the four scenarios they competed in, meaning Anna placed six out of eight total scenarios:

1st place in Burglary in Progress

2nd place in Active Shooter

2nd place in Bomb Threat

2nd place in Intoxicated Driver

2nd place in Mentally Unstable Person

3rd place in Domestic Violence (This was a three-way tie for 1st place with the deciding factor being the overall time it took the teams to complete the scenario)

**5. Work Session.**

- a. Discuss Property Tax Exemptions. (Budget Manager Terri Doby)

Prior to FY2023, the City of Anna offered a \$30,000 exemption in the Over 65 category. In June of 2022, a 1% (\$5,000 minimum) Homestead Exemption was added.

All real and tangible personal property located in the state is taxable unless an exemption is required or permitted by the Texas Constitution. Local taxing units can offer a variety of partial or total exemptions from property appraised values. Local option exemptions are one way for cities to lower the property tax bill of their residents.

**6. Consent Items.**

MOTION: Council Member Toten moved to approve Items 6.a.-d. Council Member Ussery seconded. Motion carried 7-0.

- a. Approve the City Council Meeting Minutes for April 11, 2023. (City Secretary Carrie Land)
- b. Review Minutes of the March 8, 2023, Joint Community Development Corporation and Economic Development Corporation Board Meetings. (Director of Economic Development Joey Grisham)
- c. Review Minutes for the March 20, 2023 Parks Advisory Board Meeting. (Assistant Director of Neighborhood Services Jeff Freeth)
- d. Review Monthly Financial Report for the Month Ending March 31, 2023. (Budget Manager Terri Doby)

The City of Anna's financial policies require the publication of a financial report monthly. This report covers the financial performance for Fiscal Year 2023 through March 31, 2023. Enclosed in the report is an executive dashboard that provides a high level look at major funds along with detailed reporting of sales tax collections.

The financial condition of the City remains strong and the reported funds adhere to fund balance requirements.

**7. Items For Individual Consideration.**

- a. Conduct a Public Hearing/Consider/Discuss/Action on an amendment to uphold, amend, supplement, change, modify or repeal a Specific Use Permit granted under Ord. No. 1014-2022 to allow a Metering Station on one lot on 0.6± acre located on the north side of future Rosamond Parkway, 995± feet west of County Road 368. Zoned: Planned Development (Ord. No. 932-2021). (Director of Development Services Ross Altobelli)

At their March 14, 2023 meeting, City Council voted to call a public hearing to consider an amendment to either uphold, amend, supplement, change, modify or repeal a Specific Use Permit granted under Ord. No. 1014-2022 to allow a Metering Station. Zoned: Planned Development (Ord. No. 932-2021).

The purpose of the metering station is a facility at which natural gas flows are regulated and recorded and/or modified. This location is along an existing Atmos-owned gas line/facilities easement.

At the April 3, 2023 Planning and Zoning Commission meeting the Commission voted unanimously (6-0) to recommend repeal of the Specific Use Permit.

Mayor Pike opened the public hearing at 6:27 PM.

Kylee Kelley, Jeff Beckham, Ryan Teichman, Kelly Teichman, Richard Espinoza, Ted Hout, Mike Archer, Tom Longmire, Sydney Beckham, Blake Branson, Stuart Brown, and Jennifer Richardson spoke in opposition to the atmos metering station.

Phileman Walker, Brian Marinas, Abannaya Inyama, Charles Yakum, Ted and Kim Hoyt also sent in their opposition to the atmos metering station.

Mayor Pike closed the public hearing at 7:42 PM.

MOTION: Council Member Toten moved to take no action. Council Member Cain seconded. Motion carried 3-4. Motion Failed. Council Member Carver, Mayor Pro Tem Miller, Council Member Atchley, and Council Member Ussery opposed.

Mayor Pike recessed at 8:23 PM.

Mayor Pike reconvened at 8:35 PM.

MOTION: Mayor Pro Tem Miller moved to amend Ordinance No 1014-2022 to state that notwithstanding any provision of the ordinance or any

attachments to the ordinance, the ordinance and SUP will only allow a metering station, and not include an odorizer or associated gas storage tank. Council Member Atchley seconded. Motion carried 4-3. Council Member Toten, Mayor Pike, and Council Member Cain opposed.

- b. Acting as the Anna Public Facility Corporation Board of Directors, Consider/Discuss/Act on approving: (a) Memorandum of Understanding with Liberty Multifamily, Inc. for a Senior Living Multifamily Project; and, (b) Resolutions approving the formation of entities--along with corresponding LLC Agreements--to serve in the following capacities in connection with the project: (i) APFC Reserve at Anna GP, LLC, to serve as general partner of a to-be formed partnership that will own and develop the Project; (ii) APFC Reserve at Anna Holdings, LLC, to acquire and hold fee title to the land upon which the Project will be constructed and to enter into a ground lease with the Partnership; and (iii) APFC Reserve at Anna Development, LLC, to serve as co-developer on the Project. (Director of Economic Development Joey Grisham)

Liberty Multifamily approached staff in 2022 to discuss the development of a 200-unit Senior Living project and the PFC Board approved a Resolution declaring the intent to issue bonds for the project. Liberty has secured their bond allocation and is ready to move forward on the project.

Staff recommends approval of the MOU and corresponding Resolutions. The Anna PFC Board approved a Resolution in October 2022 to declare the intent to issue Multifamily Mortgage Revenue Bonds or Notes with respect to The Reserve Senior Living in an amount not to exceed \$32,000,000. The next step in the process is approval of the attached MOU and other resolutions for the formation of entities. These are very similar to those approved for the Palladium East Foster Crossing and Parmore Anna Senior Living projects. Liberty will also be seeking to annex the property located at the intersection of SH 121 and FM 2862 into the city and zone accordingly.

MOTION: Mayor Pro Tem Miller moved to approve. Council Member Carver seconded. Motion carried 6-0-1. Mayor Pike abstained.

RESOLUTION AUTHORIZING THE FORMATION OF APFC RESERVE AT ANNA GP, LLC, AS GENERAL PARTNER (THE "COMPANY") TO , IN CONNECTION WITH THE ANNA PUBLIC FACILITY CORPORATION MULTIFAMILY HOUSING REVENUE BONDS (THE RESERVE AT ANNA), SERIES 2023; AUTHORIZING THE DESIGNATION OF THE CORPORATION AS THE SOLE MEMBER OF THE COMPANY; APPROVING THE FORM AND SUBSTANCE OF A LIMITED LIABILITY COMPANY AGREEMENT AND THE EXECUTION THEREOF; RATIFYING CERTAIN ACTIONS HERETOFORE TAKEN IN CONNECTION WITH THE

COMPANY; AUTHORIZING THE EXECUTION OF DOCUMENTS AND INSTRUMENTS NECESSARY OR CONVENIENT TO CARRY OUT THE PURPOSES OF THIS RESOLUTION; AND CONTAINING OTHER PROVISIONS RELATING THERETO

RESOLUTION AUTHORIZING THE FORMATION OF APFC RESERVE AT ANNA HOLDINGS, LLC (THE "GROUND LESSOR") IN CONNECTION WITH THE ANNA PUBLIC FACILITY CORPORATION MULTIFAMILY HOUSING REVENUE BONDS (THE RESERVE AT ANNA), SERIES 2023; AUTHORIZING THE DESIGNATION OF THE ANNA PUBLIC FACILITY CORPORATION (THE "CORPORATION") AS THE SOLE MEMBER OF THE GROUND LESSOR; APPROVING THE FORM AND SUBSTANCE OF A LIMITED LIABILITY COMPANY AGREEMENT AND THE EXECUTION THEREOF; RATIFYING CERTAIN ACTIONS HERETOFORE TAKEN IN CONNECTION WITH THE GROUND LESSOR; AUTHORIZING THE EXECUTION OF DOCUMENTS AND INSTRUMENTS NECESSARY OR CONVENIENT TO CARRY OUT THE PURPOSES OF THIS RESOLUTION; AND CONTAINING OTHER PROVISIONS RELATING THERETO

RESOLUTION AUTHORIZING THE FORMATION OF APFC RESERVE AT ANNA DEVELOPMENT, LLC (THE "CO-DEVELOPER") IN CONNECTION WITH THE ANNA PUBLIC FACILITY CORPORATION MULTIFAMILY HOUSING REVENUE BONDS (THE RESERVE AT ANNA), SERIES 2023; AUTHORIZING THE DESIGNATION OF THE ANNA PUBLIC FACILITY CORPORATION AS THE SOLE MEMBER OF THE CO-DEVELOPER; APPROVING THE FORM AND SUBSTANCE OF A LIMITED LIABILITY COMPANY AGREEMENT AND THE EXECUTION THEREOF; RATIFYING CERTAIN ACTIONS HERETOFORE TAKEN IN CONNECTION WITH THE CO-DEVELOPER; AUTHORIZING THE EXECUTION OF DOCUMENTS AND INSTRUMENTS NECESSARY OR CONVENIENT TO CARRY OUT THE PURPOSES OF THIS RESOLUTION; AND CONTAINING OTHER PROVISIONS RELATING THERETO

- c. Consider/Discuss/Action on a Resolution authorizing the City Manager to execute Purchase Orders not to exceed \$345,000 to Wopac Construction under the Collin County Purchasing Cooperative contract. (Interim Director of Public Works Steven Smith)

Anna Neighbors approved the implementation of a Street Maintenance Sales Tax, which makes up a quarter percent of the sales tax rate. These funds are dedicated to street maintenance projects. Projects are completed annually based on street conditions and available funding. The majority of the funding is used to rehabilitate aging asphalt roadways in downtown

Anna and on County Roads, which become the responsibility of the City to maintain.

This item is for the City of Anna's annual Street Maintenance Sales Tax projects. This fiscal year project list includes the following streets:

- Easton (Full Depth Reclamation)
- West 5th Street (Full Depth Reclamation)
- East 6th Street (Full Depth Reclamation )

As a member of the Collin County Purchasing Cooperative, the City of Anna is able to receive contract pricing through the existing County contract, resulting in better unit prices and cost savings. The City is utilizing the existing contract by and between Wopac Construction, Incorporated and Collin County for General Road Maintenance.

Staff included \$24,000 in contingency funds in the proposed project budget, for a total project budget of \$345,000. Remaining funds will be allocated to future Street Maintenance Tax projects.

MOTION: Council Member Toten moved to approve. Mayor Pro Tem Miller seconded. Motion carried 7-0.

A RESOLUTION OF THE CITY OF ANNA, TEXAS, AUTHORIZING THE CITY MANAGER TO EXECUTE PURCHASE ORDERS FOR THE RECONSTRUCTION OF EASTON, W. FIFTH STREET, AND E. SIXTH STREET TO WOPAC CONSTRUCTION, INCORPORATED IN THE AMOUNT NOT TO EXCEED THREE HUNDRED FOURTYFIVE THOUSAND DOLLARS (\$345,000); AND PROVIDING FOR AN EFFECTIVE DATE.

d. Finley Boulevard (Interim City Manager Ryan Henderson)

I. Consider/Discuss/Action on an Ordinance Amending the FY2023 Roadway Impact Fees Fund Budget.

II. Consider/Discuss/Action a Resolution authorizing the City Manager to execute a project-specific Purchase Order with HALFF Associates in an amount not exceeding \$90,000 for the Design of Finley Blvd. from Sharp Street to the DART Rail line.

The item for this roadway improvement comes from a recommendation from staff to help alleviate the backup and constraints experienced by the neighbors in Anna Town Square. With regards to the budget amendment, the FY2023 Budget was adopted by the City Council on September 13,

2022. According to the City Charter, the City Council may, by the affirmative vote of a majority of the full membership of the City Council, amend or change the budget to provide for any additional expense in which the general welfare of the citizenry is involved.

Halff & Associates have put together a proposal for the design of East Finley Blvd. The design includes two extra lanes approximately 250 feet east of Powell Pkwy to the intersection of Sharp St. Improvements include roadway paving, drainage, sidewalks, pedestrian ramps, signage in pavement markings. A budget amendment would need to be approved to fund the design work for the following purposes:

Finley Blvd (Design) (\$90,000): This amendment will provide funding for the design of Finley Blvd. Construction costs will be budgeted in the FY2024 Community Investment Program budget.

MOTION: Council Member Cain moved to approve Item 7.d.I. Council Member Toten seconded. Motion carried 7-0.

AN ORDINANCE AMENDING ORDINANCE NO. 1002-2022 ADOPTING THE BUDGET FOR THE 2022-2023 FISCAL YEAR; PROVIDING FOR SAVINGS, SEVERABILITY, AND REPEALING CLAUSES; PROVIDING FOR AN EFFECTIVE DATE; AND PROVIDING FOR THE PUBLICATION OF THE CAPTION HEREOF.

MOTION: Mayor Pike moved to approve Item 7.d.II. Council Member Toten seconded. Motion carried 7-0.

A RESOLUTION OF THE CITY OF ANNA, TEXAS, AUTHORIZING THE CITY MANAGER TO EXECUTE A CONTRACT FOR PROFESSIONAL SERVICES, IN A FORM APPROVED BY THE CITY ATTORNEY WITH HALFF & ASSOCIATES INCORPORATED, FOR THE ENGINEERING DESIGN OF FINLEY BLVD IN THE AMOUNT NOT TO EXCEED NINETY THOUSAND DOLLARS AND ZERO CENT (\$90,000.00); AND PROVIDING FOR AN EFFECTIVE DATE

- e. Consider/Discuss/Action on a Resolution accepting the FY 2022 Audit Report. (Finance Director Alan Guard)

The City is required by the Charter to complete an annual independent audit of all accounts by an outside certified public accountant. The City Council has retained Weaver and Tidwell, LLP for that purpose.

This item is a resolution to take action to accept the audit report completed by the accounting firm Weaver and Tidwell, LLP. The City is currently in the fourth year of a contract with Weaver and Tidwell to prepare the audit and Annual Comprehensive Financial Report (the Annual Report).

MOTION: Mayor Pro Tem Miller moved to approve. Council Member Atchley seconded. Motion carried 7-0.

**A RESOLUTION ACCEPTING THE FISCAL YEAR 2022 FINANCIAL AUDIT OF THE CITY OF ANNA.**

- f. Consider/Discuss/Action on an Ordinance Permitting and Regulating the use of Golf Carts within the City of Anna. (Police Chief Dean Habel)

Council expressed their desire to have an ordinance brought before them allowing for the operation, registration, and permitting of golf carts within the City of Anna.

The proposed ordinance outlines driver, operation, and equipment requirements for golf cart usage within the city. It requires the owner of the golf cart to apply for a one-time, non-transferable, registration through the police department and display an issued set of decals to be in compliance. There is no associated fee in the current draft of the ordinance.

MOTION: Council Member Toten moved to approve. Council Member Atchley seconded. Motion carried 7-0.

**AN ORDINANCE OF THE CITY OF ANNA, TEXAS, AMENDING THE CODE OF ORDINANCES, CITY OF ANNA, TEXAS BY AMENDING CHAPTER 11 "TRAFFIC AND VEHICLES," ARTICLE 11.02 BY ADDING A NEW ARTICLE 11.04, "GOLF CARTS"; ALLOWING GOLF CART USE ON CERTAIN PUBLIC STREETS, ESTABLISHING PERMITTING AND SAFETY REQUIREMENTS FOR GOLF CARTS, PROVIDING FOR CERTAIN EXCEPTIONS APPLICABLE TO PUBLIC SAFETY PERSONNEL, PROVIDING FOR A SEVERABILITY CLAUSE; PROVIDING FOR A SAVINGS CLAUSE; PROVIDING FOR A PENALTY CLAUSE; PROVIDING FOR AN EFFECTIVE DATE; AND PROVIDING FOR THE PUBLICATION OF THE CAPTION HEREOF.**

**8. Closed Session (Exceptions).**

Under Tex. Gov't Code Chapter 551, the City Council may enter into Closed Session to discuss any items listed or referenced on this Agenda under the following exceptions:

- a. Consult with legal counsel regarding pending or contemplated litigation and/or on matters in which the duty of the attorney to the governmental body under the Texas Disciplinary Rules of Professional Conduct of the State Bar of Texas clearly conflicts with Chapter 551 of the Government Code (Tex. Gov't Code §551.071).
- b. Discuss or deliberate the purchase, exchange, lease, or value of real property (Tex. Gov't Code §551.072).
- c. Discuss or deliberate Economic Development Negotiations: (1) To discuss or deliberate regarding commercial or financial information that the City has received from a business prospect that the City seeks to have locate, stay, or expand in or near the territory of the City of Anna and with which the City is conducting economic development negotiations; or (2) To deliberate the offer of a financial or other incentive to a business prospect described by subdivision (1). (Tex. Gov't Code §551.087).
- d. Discuss or deliberate personnel matters (Tex. Gov't Code §551.074).  
Boards and Commissions

MOTION: Mayor Pro Tem Miller moved to enter Closed Session. Council Member Atchley Seconded. Motion carried 7-0.

Mayor Pike recessed the meeting at 9:12 PM.

Mayor Pike reconvened the meeting at 9:55 PM.

9. Consider/Discuss/Action on any items listed on any agenda - work session, regular meeting, or closed session - that is duly posted by the City of Anna for any City Council meeting occurring on the same date as the meeting noticed in this agenda.

No action was taken.

**10. Adjourn.**

Mayor Pike adjourned the meeting at 9:55 PM.

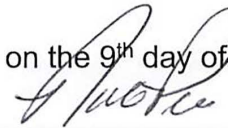
ATTEST:



City Secretary Carrie L. Land



Approved on the 9<sup>th</sup> day of May 2023



Mayor Nate Pike

# SAFETY DATA SHEET



## SCENTINEL® O-10 Gas Odorant

Version 2.1

Revision Date 2022-08-17

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### Product information

Product Name : SCENTINEL® O-10 Gas Odorant  
Material : 1127873, 1098432, 1104051, 1024703, 1024707, 1024706, 1024705, 1024704

Use : Odorant

Company : Chevron Phillips Chemical Company LP  
Specialty Chemicals  
10001 Six Pines Drive  
The Woodlands, TX 77380

#### Emergency telephone:

##### Health:

866.442.9628 (North America)

1.832.813.4984 (International)

##### Transport:

CHEMTREC 800.424.9300 or 703.527.3887(int'l)

Asia: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090

Mexico CHEMTREC 01-800-681-9531 (24 hours)

South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600

Argentina: +(54)-1159839431

EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Austria: VIZ +43 1 406 43 43 (24 hours/day, 7 days/week)

Belgium: 070 245 245 (24 hours/day, 7 days/week)

Bulgaria: +359 2 9154 233

Croatia: +3851 2348 342 (24 hours/day, 7 days/week)

Cyprus: 1401

Czech Republic: Toxicological Information Center +420 224 919 293, +420 224 915 402

Denmark: Danish Poison Center (Giftlinjen): +45 8212 1212

Estonia: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Finland: 0800 147 111 09 471 977 (24 hours/day)

France: ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week)

Germany: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Greece: (0030) 2107793777 (24 hours/day, 7 days/week)

Hungary: +36-80-201-199 (24 hours/day, 7 days/week)

Iceland: 543 2222 (24 hours/day, 7 days/week)

Ireland: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Italy: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

**SCENTINEL® O-10 Gas Odorant**

Version 2.1

Revision Date 2022-08-17

Latvia: State Fire and Rescue Service, phone number: 112; Toxicology and Sepsis Clinic Poisoning and Drug Information Center, Hipokrāta 2, Rīga, Latvia, LV-1038, phone number +371 67042473. (24 hours.)  
 Liechtenstein: BIG +32.14.584545 (phone) or +32.14583516 (telefax)  
 Lithuania: +370 (85) 2362052  
 Luxembourg: (+352) 8002 5500 (24 hours/day, 7 days/week)  
 Malta: +356 2395 2000  
 The Netherlands: NVIC: +31 (0)88 755 8000  
 Norway: 22 59 13 00 (24 hours/day, 7 days/week)  
 Poland: BIG +32.14.584545 (phone) or +32.14583516 (telefax)  
 Portugal: CIAV phone number: +351 800 250 250  
 Romania: +40213183606  
 Slovakia: +421 2 5477 4166  
 Slovenia: Phone number: 112  
 Spain: National Emergency Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (24 hours/day, 7 days/week)  
 Sweden: 112 – ask for Poisons Information

Responsible Department : Product Safety and Toxicology Group  
 E-mail address : SDS@CPChem.com  
 Website : www.CPChem.com

**ODOR-FADE WARNING**

**A GAS LEAK CAN CAUSE A FIRE OR EXPLOSION RESULTING IN SERIOUS INJURY OR DEATH.**

Be aware that the stenching chemical added to gas to make it detectable may not warn of a gas leak or the presence of propane or natural gas to all persons in every instance.

Instances where the odorant in an odorized gas may be undetectable include:

- Odor intensity may fade or be eliminated for a variety of chemical and physical causes, including the oxidation of rusting pipes, adsorption into or sticking onto the interior of pipes or appliances, or absorption into liquids.
- Contact with soil in underground leaks may de-odorize or remove odorant from the gas.
- Some people have a diminished ability, or inability to smell the stench. Factors that negatively affect a person's sense of smell include age, gender, medical conditions, and alcohol/tobacco usage.
- The stench of odorized gas may not awaken sleeping persons.
- Other odors may mask or hide the stench.
- Exposure to the odor for even a short period of time, may cause nasal fatigue, where a person can no longer smell the stench.

Gas detectors listed by the Underwriters Laboratories (UL) can be used as an extra measure of safety for detecting gas leaks, especially under conditions where the odorant alone may not provide an adequate warning. Gas detectors emit a loud, shrill sound when gas is present and do not depend on sense of smell. Because the odor intensity can fade or people may have problems with their sense of smell, we recommend installing, per manufacturer's instructions, one or more combustible gas detectors, in suitable locations to ensure adequate coverage to detect gas leaks.

Educate yourself, your employees, and your customers with the content of this warning and other important facts associated with the so-called "odor-fade phenomenon."

**SECTION 2: Hazards identification****Classification of the substance or mixture**

This product has been classified in accordance with the hazard communication standard 29 CFR 1910.1200; the SDS and labels contain all the information as required by the standard.

SDS Number:100000014191

2/22

**SCENTINEL® O-10 Gas Odorant**

Version 2.1

Revision Date 2022-08-17

**Classification**

: Flammable liquids, Category 2  
 Eye irritation, Category 2B  
 Skin sensitization, Category 1

**Labeling****Symbol(s)****Signal Word**

: Danger

**Hazard Statements**

: H225: Highly flammable liquid and vapor.  
 H317: May cause an allergic skin reaction.  
 H320: Causes eye irritation.

**Precautionary Statements**

: **Prevention:**  
 P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.  
 P233 Keep container tightly closed.  
 P240 Ground/bond container and receiving equipment.  
 P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
 P242 Use only non-sparking tools.  
 P243 Take precautionary measures against static discharge.  
 P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
 P264 Wash skin thoroughly after handling.  
 P280 Wear protective gloves/ eye protection/ face protection.  
**Response:**  
 P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
 P337 + P313 If eye irritation persists: Get medical advice/ attention.  
 P363 Wash contaminated clothing before reuse.  
 P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.  
**Storage:**  
 P403 + P235 Store in a well-ventilated place. Keep cool.  
**Disposal:**  
 P501 Dispose of contents/ container to an approved waste disposal plant.

**Carcinogenicity:****IARC**

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

# SAFETY DATA SHEET



## Isopropyl Mercaptan

Version 3.2

Revision Date 2020-04-13

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### Product information

Product Name : Isopropyl Mercaptan  
Material : 1083608, 1029885, 1021450, 1028387, 1021451, 1027451,  
1021448, 1031054, 1021449

Company : Chevron Phillips Chemical Company LP  
Specialty Chemicals  
10001 Six Pines Drive  
The Woodlands, TX 77380

#### Emergency telephone:

##### Health:

866.442.9628 (North America)

1.832.813.4984 (International)

##### Transport:

CHEMTREC 800.424.9300 or 703.527.3887(int'l)

Asia: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090

EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Mexico CHEMTREC 01-800-681-9531 (24 hours)

South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600

Argentina: +(54)-1159839431

Responsible Department : Product Safety and Toxicology Group  
E-mail address : SDS@CPChem.com  
Website : www.CPChem.com

### SECTION 2: Hazards identification

#### Classification of the substance or mixture

This product has been classified in accordance with the hazard communication standard 29 CFR 1910.1200; the SDS and labels contain all the information as required by the standard.

#### Classification

: Flammable liquids, Category 2  
Skin sensitization, Sub-category 1B

#### Labeling

**Isopropyl Mercaptan**

Version 3.2

Revision Date 2020-04-13

|                          |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Symbol(s)                | : |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Signal Word              | : | Danger                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Hazard Statements        | : | H225: Highly flammable liquid and vapor.<br>H317: May cause an allergic skin reaction.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Precautionary Statements | : | <b>Prevention:</b><br>P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.<br>P233 Keep container tightly closed.<br>P240 Ground/bond container and receiving equipment.<br>P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.<br>P242 Use only non-sparking tools.<br>P243 Take precautionary measures against static discharge.<br>P261 Avoid breathing dust/fume/gas/mist/vapors/spray.<br>P272 Contaminated work clothing should not be allowed out of the workplace.<br>P280 Wear protective gloves/ eye protection/ face protection.<br><b>Response:</b><br>P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.<br>P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.<br>P363 Wash contaminated clothing before reuse.<br>P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.<br><b>Storage:</b><br>P403 + P235 Store in a well-ventilated place. Keep cool.<br><b>Disposal:</b><br>P501 Dispose of contents/ container to an approved waste disposal plant. |

**Carcinogenicity:****IARC**

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**NTP**

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**SECTION 3: Composition/information on ingredients**

|                   |   |                                |
|-------------------|---|--------------------------------|
| Synonyms          | : | 2-propanethiol<br>IPM<br>IC3SH |
| Molecular formula | : | C3H8S                          |

**Isopropyl Mercaptan**

Version 3.2

Revision Date 2020-04-13

| Component           | CAS-No.  | Weight % |
|---------------------|----------|----------|
| Isopropyl Mercaptan | 75-33-2  | 95 - 100 |
| n-Propyl Mercaptan  | 107-03-9 | 1 - 5    |

**SECTION 4: First aid measures**

- General advice : Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Material may produce a serious, potentially fatal pneumonia if swallowed or vomited.
- If inhaled : If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
- In case of skin contact : If on skin, rinse well with water. If on clothes, remove clothes.
- In case of eye contact : Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

**SECTION 5: Firefighting measures**

- Flash point : -34°C (-29°F) estimated
- Autoignition temperature : No data available
- Suitable extinguishing media : Alcohol-resistant foam. Carbon dioxide (CO<sub>2</sub>). Dry chemical.
- Unsuitable extinguishing media : High volume water jet.
- Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.
- Fire and explosion protection : Do not spray on an open flame or any other incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only explosion-proof equipment. Keep away from open flames,

**Isopropyl Mercaptan**

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hot surfaces and sources of ignition.

Hazardous decomposition products : Sulfur.

**SECTION 6: Accidental release measures**

Personal precautions : Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precautions : Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

**SECTION 7: Handling and storage****Handling**

Advice on safe handling : Avoid formation of aerosol. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations. Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Advice on protection against fire and explosion : Do not spray on an open flame or any other incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.

**Storage**

Requirements for storage areas and containers : No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

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**SECTION 8: Exposure controls/personal protection****Engineering measures**

Adequate ventilation to control airborne concentrations below the exposure guidelines/limits. Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

**Personal protective equipment**

- Respiratory protection : Wear a supplied-air NIOSH approved respirator unless ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as: Air-Purifying Respirator for Organic Vapors. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.
- Hand protection : The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
- Eye protection : Eye wash bottle with pure water. Tightly fitting safety goggles.
- Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate: Remove and wash contaminated clothing before re-use. Skin should be washed after contact. Footwear protecting against chemicals.
- Hygiene measures : When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

**SECTION 9: Physical and chemical properties****Information on basic physical and chemical properties****Appearance**

- Form : Liquid
- Physical state : Liquid
- Color : Clear
- Odor : Repulsive

**Safety data**

- Flash point : -34°C (-29°F)

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estimated

|                                        |                                   |
|----------------------------------------|-----------------------------------|
| Lower explosion limit                  | : No data available               |
| Upper explosion limit                  | : No data available               |
| Flammability (solid, gas)              | :                                 |
| Oxidizing properties                   | : yes                             |
| Autoignition temperature               | : No data available               |
| Molecular formula                      | : C <sub>3</sub> H <sub>8</sub> S |
| Molecular weight                       | : 90.2 g/mol                      |
| pH                                     | : Not applicable                  |
| Pour point                             | : No data available               |
| Boiling point/boiling range            | : 51°C (124°F)                    |
| Vapor pressure                         | : 8.80 PSI<br>at 37.8°C (100.0°F) |
| Relative density                       | : 0.82<br>at 15.6 °C (60.1 °F)    |
| Water solubility                       | : slightly soluble                |
| Partition coefficient: n-octanol/water | : No data available               |
| Viscosity, dynamic                     | : 0.369 cP                        |
| Relative vapor density                 | : 2.62<br>(Air = 1.0)             |
| Evaporation rate                       | : 1<br>estimated                  |
| Percent volatile                       | : > 99 %                          |

**SECTION 10: Stability and reactivity**

|                                           |                                                                                                                                        |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reactivity</b>                         | : Stable under recommended storage conditions.                                                                                         |
| <b>Chemical stability</b>                 | : This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. |
| <b>Possibility of hazardous reactions</b> |                                                                                                                                        |

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|                                                                       |                                                                                                                                                                                                                         |
|-----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Hazardous reactions</b>                                            | : Hazardous reactions: Hazardous polymerization does not occur.<br><br>Further information: No decomposition if stored and applied as directed.<br><br>Hazardous reactions: Vapors may form explosive mixture with air. |
| <b>Conditions to avoid</b><br><b>Hazardous decomposition products</b> | : Heat, flames and sparks.<br>: Sulfur                                                                                                                                                                                  |
| <b>Other data</b>                                                     | : No decomposition if stored and applied as directed.                                                                                                                                                                   |

**SECTION 11: Toxicological information**

|                                                                |                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Isopropyl Mercaptan</b><br><b>Acute oral toxicity</b>       | : Acute toxicity estimate: 2,496 mg/kg<br>Method: Calculation method                                                                                                                                                                                                                                                                                                                                         |
| <b>Isopropyl Mercaptan</b><br><b>Acute inhalation toxicity</b> | : Acute toxicity estimate: > 20 mg/l<br>Exposure time: 4 h<br>Test atmosphere: vapor<br>Method: Calculation method                                                                                                                                                                                                                                                                                           |
| <b>Isopropyl Mercaptan</b><br><b>Acute dermal toxicity</b>     | : Acute toxicity estimate: > 2,000 mg/kg<br>Method: Calculation method                                                                                                                                                                                                                                                                                                                                       |
| <b>Isopropyl Mercaptan</b><br><b>Skin irritation</b>           | : No skin irritation<br>largely based on animal evidence.                                                                                                                                                                                                                                                                                                                                                    |
| <b>Isopropyl Mercaptan</b><br><b>Eye irritation</b>            | : slight irritation. largely based on animal evidence.                                                                                                                                                                                                                                                                                                                                                       |
| <b>Isopropyl Mercaptan</b><br><b>Sensitization</b>             | : The product is a skin sensitizer, sub-category 1B.<br>largely based on animal evidence.                                                                                                                                                                                                                                                                                                                    |
| <b>Repeated dose toxicity</b><br><b>Isopropyl Mercaptan</b>    | : Species: Rat, male and female<br>Sex: male and female<br>Application Route: Inhalation<br>Exposure time: 13 wks<br>Number of exposures: 6hrs/d, 5 d/wk<br>NOEL: 0.367 mg/l 99.6 ppm<br>Lowest observable effect level: 1.488 mg/l 403.4 ppm<br>Method: OECD Test Guideline 413<br>Target Organs: Liver, Kidney, Upper respiratory tract, Blood<br>Information given is based on data obtained from similar |

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substances.

Species: Rat, male and female  
 Sex: male and female  
 Application Route: oral gavage  
 Dose: 10, 50, 200 mg/kg bw/day  
 Exposure time: 42-53 days  
 Number of exposures: Daily  
 NOEL: 50 mg/kg  
 Lowest observable effect level: 200 mg/kg  
 Method: OECD Guideline 422  
 Target Organs: Liver, Blood  
 Information given is based on data obtained from similar substances.

Species: Rat, male and female  
 Sex: male and female  
 Application Route: Inhalation  
 Exposure time: 13 wks  
 Number of exposures: 6hrs/d, 5 d/wk  
 NOEL:  $\geq 196$  ppm  
 Method: OECD Test Guideline 413  
 Target Organs: Kidney, Upper respiratory tract, Blood  
 Information given is based on data obtained from similar substances.

**n-Propyl Mercaptan**

Species: Rat, male and female  
 Sex: male and female  
 Application Route: Inhalation  
 Dose: 9, 97, 196 ppm  
 Exposure time: 13 wks  
 Number of exposures: 6 hrs/d, 5 d/wk  
 NOEL: 196 ppm  
 Method: OECD Test Guideline 413  
 Information given is based on data obtained from similar substances.

**Genotoxicity in vitro****Isopropyl Mercaptan**

: Test Type: reverse mutation assay  
 Test system: Salmonella typhimurium  
 Metabolic activation: with and without metabolic activation  
 Method: OECD Test Guideline 471  
 Result: negative

Test Type: Mouse lymphoma assay  
 Metabolic activation: with and without metabolic activation  
 Method: OECD Test Guideline 490  
 Result: negative

Test Type: Micronucleus test  
 Metabolic activation: with and without metabolic activation  
 Method: OECD Test Guideline 487  
 Result: negative

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Test Type: Ames test  
 Metabolic activation: with and without metabolic activation  
 Method: OECD Test Guideline 471  
 Result: negative

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Test Type: Cytogenetic assay  
 Metabolic activation: with and without metabolic activation  
 Method: OECD Test Guideline 473  
 Result: negative

Test Type: Mouse lymphoma assay  
 Metabolic activation: with and without metabolic activation  
 Method: OECD Test Guideline 476  
 Result: negative  
 Remarks: Information given is based on data obtained from similar substances.

**Reproductive toxicity**

Isopropyl Mercaptan : Species: Rat  
 Sex: male and female  
 Application Route: oral gavage  
 Dose: 10, 50, 200 mg/kg/bw  
 Exposure time: 42 d  
 Number of exposures: Daily  
 Method: OECD Guideline 422  
 NOAEL Parent:  $\geq 200$  mg/kg  
 NOAEL F1: 50 mg/kg  
 Information given is based on data obtained from similar substances.  
 No adverse effects expected

**Developmental Toxicity**

Isopropyl Mercaptan : Species: Rat  
 Application Route: Inhalation  
 Dose: 11, 99, 195 ppm  
 Exposure time: 6h/d  
 Test period: GD 9 - 19  
 Method: OECD Guideline 414  
 NOAEL Teratogenicity:  $\geq 195$  ppm  
 NOAEL Maternal:  $\geq 195$  ppm  
 Information given is based on data obtained from similar substances.

Species: Mouse  
 Application Route: Inhalation  
 Dose: 11, 99, 195 ppm  
 Exposure time: 6h/d  
 Test period: GD 9 - 19  
 Method: OECD Guideline 414  
 NOAEL Teratogenicity:  $\geq 195$  ppm  
 NOAEL Maternal:  $\geq 195$  ppm  
 Information given is based on data obtained from similar substances.

**Isopropyl Mercaptan  
Aspiration toxicity**

: May be harmful if swallowed and enters airways.

**CMR effects**

Isopropyl Mercaptan : Carcinogenicity: Not available

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|                                                          |                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                          | <p>Mutagenicity: In vitro tests did not show mutagenic effects</p> <p>Reproductive toxicity: No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.</p>                                                                    |
| n-Propyl Mercaptan                                       | <p>Carcinogenicity: Not available</p> <p>Mutagenicity: In vitro tests did not show mutagenic effects</p> <p>Reproductive toxicity: No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments., No toxicity to reproduction</p> |
| <b>Isopropyl Mercaptan</b><br><b>Further information</b> | : Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Solvents may degrease the skin.                                                                                                                                                               |

**SECTION 12: Ecological information****Toxicity to fish**

|                     |                                                                                                                                                                                                                                |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Isopropyl Mercaptan | : LC50: 34 mg/l<br>Exposure time: 96 h<br>semi-static test Analytical monitoring: yes<br>Method: OECD Test Guideline 203<br>Information given is based on data obtained from similar substances.                               |
| n-Propyl Mercaptan  | LC50: 1.3 mg/l<br>Exposure time: 96 h<br>Species: Pimephales promelas (fathead minnow)<br>semi-static test Analytical monitoring: yes<br>Test substance: yes<br>Method: OECD Test Guideline 203<br>Toxic to aquatic organisms. |

**Toxicity to daphnia and other aquatic invertebrates**

|                     |                                                                                                                                                                                                         |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Isopropyl Mercaptan | : EC50: 0.25 - 0.5 mg/l<br>Exposure time: 48 h<br>Species: Daphnia magna (Water flea)<br>static test Test substance: yes<br>Method: OECD Test Guideline 202                                             |
| n-Propyl Mercaptan  | EC50: 70 µg/l<br>Exposure time: 48 h<br>Species: Daphnia magna (Water flea)<br>Analytical monitoring: yes<br>Test substance: yes<br>Method: OECD Test Guideline 202<br>Very toxic to aquatic organisms. |

**Toxicity to algae**

|                     |                                           |
|---------------------|-------------------------------------------|
| Isopropyl Mercaptan | : ErC50: 21.9 mg/l<br>Exposure time: 72 h |
|---------------------|-------------------------------------------|

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n-Propyl Mercaptan      Species: *Pseudokirchneriella subcapitata* (green algae)  
 static test Method: OECD Test Guideline 201

ErC50: 3 mg/l  
 Exposure time: 72 h  
 Species: *Pseudokirchneriella subcapitata* (algae)  
 Growth inhibition Method: OECD Test Guideline 201  
 Information given is based on data obtained from similar substances.

**M-Factor**

propane-2-thiol      : M-Factor (Acute Aquat. Tox.)      1

M-Factor (Chron. Aquat. Tox.)      1

**M-Factor**

propane-1-thiol      : M-Factor (Acute Aquat. Tox.)      10

M-Factor (Chron. Aquat. Tox.)      10

**Toxicity to bacteria**

Isopropyl Mercaptan      : EC50: 880.5 mg/l  
 Exposure time: 3 h  
 Respiration inhibition  
 Method: OECD Test Guideline 209

n-Propyl Mercaptan      EC50: 880.5 mg/l  
 Exposure time: 3 h  
 Respiration inhibition  
 Method: OECD Test Guideline 209  
 Information given is based on data obtained from similar substances.

**Biodegradability**

Isopropyl Mercaptan      : aerobic  
 Result: Not readily biodegradable.  
 0 %  
 Testing period: 28 Days  
 Method: OECD Test Guideline 301D

n-Propyl Mercaptan      : aerobic  
 Result: Not readily biodegradable.  
 17 %  
 Testing period: 28 Days  
 Method: OECD Test Guideline 301

**Bioaccumulation**

Isopropyl Mercaptan      : This material is not expected to bioaccumulate.

n-Propyl Mercaptan      : This material is not expected to bioaccumulate.

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**Mobility**

Isopropyl Mercaptan : Disperses rapidly in air.

n-Propyl Mercaptan : Disperses rapidly in air.

**Results of PBT assessment**

Isopropyl Mercaptan : Non-classified PBT substance, Non-classified vPvB substance

n-Propyl Mercaptan : Non-classified PBT substance, Non-classified vPvB substance

Additional ecological information : Very toxic to aquatic life with long lasting effects.

**Ecotoxicology Assessment**

Short-term (acute) aquatic hazard : Very toxic to aquatic life.

Long-term (chronic) aquatic hazard : Very toxic to aquatic life with long lasting effects.

**SECTION 13: Disposal considerations**

The information in this SDS pertains only to the product as shipped.

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

Product : The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

**SECTION 14: Transport information**

**The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).**

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the SDS and the bill of lading.

**US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)**

UN2402, PROPANETHIOLS, 3, II

**IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)**

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UN2402, PROPANETHIOLS, 3, II, (-34°C), MARINE POLLUTANT, (ISOPROPYL MERCAPTAN, N-PROPYL MERCAPTAN)

**IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)**

UN2402, PROPANETHIOLS, 3, II

**ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))**

UN2402, PROPANETHIOLS, 3, II, (D/E), ENVIRONMENTALLY HAZARDOUS, (ISOPROPYL MERCAPTAN, N-PROPYL MERCAPTAN)

**RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))**

UN2402, PROPANETHIOLS, 3, II, ENVIRONMENTALLY HAZARDOUS, (ISOPROPYL MERCAPTAN, N-PROPYL MERCAPTAN)

**ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)**

UN2402, PROPANETHIOLS, 3, II, ENVIRONMENTALLY HAZARDOUS, (ISOPROPYL MERCAPTAN, N-PROPYL MERCAPTAN)

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

**SECTION 15: Regulatory information****National legislation**

**SARA 311/312 Hazards** : Flammable (gases, aerosols, liquids, or solids)  
Respiratory or skin sensitization

**EPCRA - EMERGENCY PLANNING COMMUNITY RIGHT - TO - KNOW**

**CERCLA Reportable Quantity** : This material does not contain any components with a CERCLA RQ.

**SARA 302 Reportable Quantity** : This material does not contain any components with a SARA 302 RQ.

**SARA 302 Threshold Planning Quantity** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 304 Reportable Quantity** : This material does not contain any components with a section 304 EHS RQ.

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**SARA 313 Components** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Clean Air Act**

**Ozone-Depletion Potential** : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

**US State Regulations****Pennsylvania Right To Know**

: Isopropyl Mercaptan - 75-33-2  
n-Propyl Mercaptan - 107-03-9

**California Prop. 65 Components**

: This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

**Notification status**

Europe REACH : This product is in full compliance according to REACH regulation 1907/2006/EC.  
Switzerland CH INV : On the inventory, or in compliance with the inventory  
United States of America (USA) TSCA : On the inventory, or in compliance with the inventory  
Canada DSL : All components of this product are on the Canadian

**Isopropyl Mercaptan**

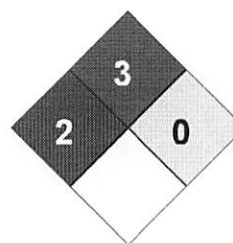
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|                   |                                                                                                                                                                                                                                                                                                       |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DSL               |                                                                                                                                                                                                                                                                                                       |
| Australia AICS    | : On the inventory, or in compliance with the inventory                                                                                                                                                                                                                                               |
| New Zealand NZIoC | : On the inventory, or in compliance with the inventory                                                                                                                                                                                                                                               |
| Japan ENCS        | : On the inventory, or in compliance with the inventory                                                                                                                                                                                                                                               |
| Korea KECI        | : A substance(s) in this product was not registered, notified to be registered, or exempted from registration by CPChem according to K-REACH regulations. Importation or manufacture of this product is still permitted provided the Korean Importer of Record has themselves notified the substance. |
| Philippines PICCS | : On the inventory, or in compliance with the inventory                                                                                                                                                                                                                                               |
| China IECSC       | : On the inventory, or in compliance with the inventory                                                                                                                                                                                                                                               |
| Taiwan TCSI       | : On the inventory, or in compliance with the inventory                                                                                                                                                                                                                                               |

**SECTION 16: Other information**

**NFPA Classification** : Health Hazard: 2  
Fire Hazard: 3  
Reactivity Hazard: 0

**Further information**

Legacy SDS Number : 38500

Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information in this SDS pertains only to the product as shipped.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**Key or legend to abbreviations and acronyms used in the safety data sheet**

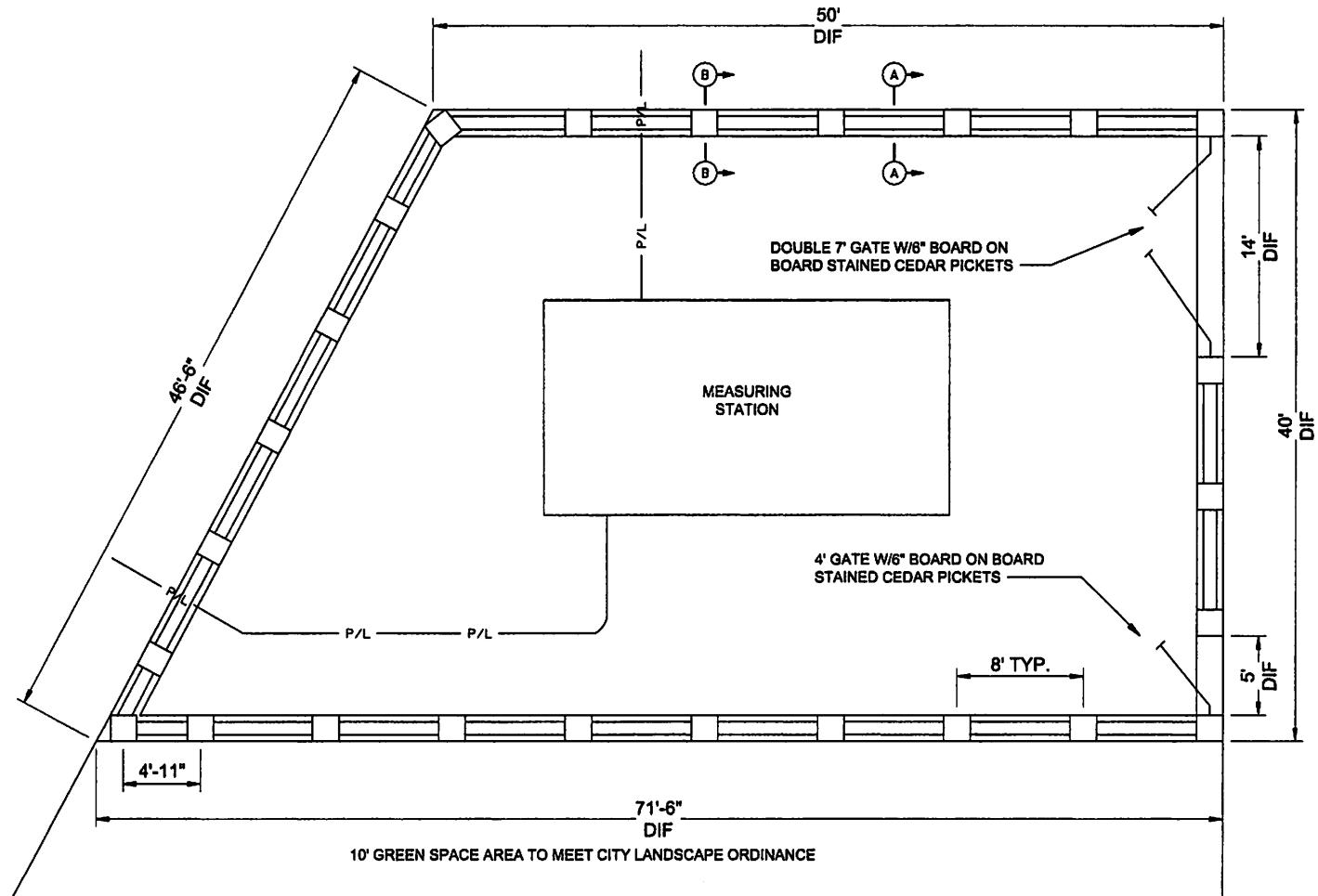
|       |                                                         |       |                                                     |
|-------|---------------------------------------------------------|-------|-----------------------------------------------------|
| ACGIH | American Conference of Government Industrial Hygienists | LD50  | Lethal Dose 50%                                     |
| AICS  | Australia, Inventory of Chemical Substances             | LOAEL | Lowest Observed Adverse Effect Level                |
| DSL   | Canada, Domestic Substances List                        | NFPA  | National Fire Protection Agency                     |
| NDSL  | Canada, Non-Domestic Substances List                    | NIOSH | National Institute for Occupational Safety & Health |
| CNS   | Central Nervous System                                  | NTP   | National Toxicology Program                         |
| CAS   | Chemical Abstract Service                               | NZIoC | New Zealand Inventory of Chemicals                  |
| EC50  | Effective Concentration                                 | NOAEL | No Observable Adverse Effect Level                  |
| EC50  | Effective Concentration 50%                             | NOEC  | No Observed Effect Concentration                    |
| EGEST | EOSCA Generic Exposure Scenario Tool                    | OSHA  | Occupational Safety & Health Administration         |

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|        |                                                          |       |                                                                                      |
|--------|----------------------------------------------------------|-------|--------------------------------------------------------------------------------------|
| EOSCA  | European Oilfield Specialty Chemicals Association        | PEL   | Permissible Exposure Limit                                                           |
| EINECS | European Inventory of Existing Chemical Substances       | PICCS | Philippines Inventory of Commercial Chemical Substances                              |
| MAK    | Germany Maximum Concentration Values                     | PRNT  | Presumed Not Toxic                                                                   |
| GHS    | Globally Harmonized System                               | RCRA  | Resource Conservation Recovery Act                                                   |
| >=     | Greater Than or Equal To                                 | STEL  | Short-term Exposure Limit                                                            |
| IC50   | Inhibition Concentration 50%                             | SARA  | Superfund Amendments and Reauthorization Act                                         |
| IARC   | International Agency for Research on Cancer              | TLV   | Threshold Limit Value                                                                |
| IECSC  | Inventory of Existing Chemical Substances in China       | TWA   | Time Weighted Average                                                                |
| ENCS   | Japan, Inventory of Existing and New Chemical Substances | TSCA  | Toxic Substance Control Act                                                          |
| KECI   | Korea, Existing Chemical Inventory                       | UVCB  | Unknown or Variable Composition, Complex Reaction Products, and Biological Materials |
| <=     | Less Than or Equal To                                    | WHMIS | Workplace Hazardous Materials Information System                                     |
| LC50   | Lethal Concentration 50%                                 |       |                                                                                      |



ROAD

# PLAN

SCALE 3/16"=1'-0"

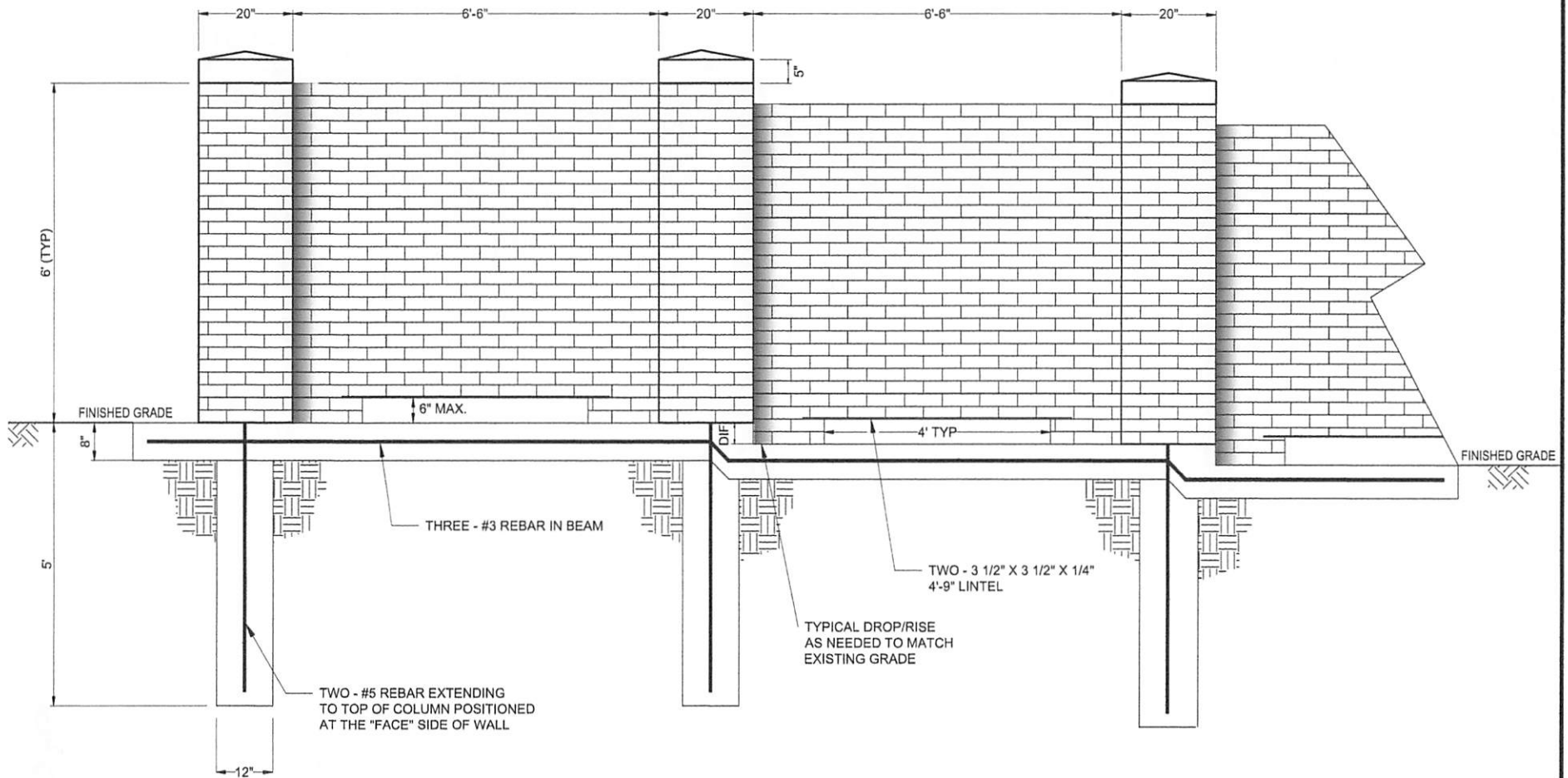
|           |       |          |          |                      |                  |                        |                        |
|-----------|-------|----------|----------|----------------------|------------------|------------------------|------------------------|
| -         | -     | -        | -        | -                    | -                | DESIGNED BY: P. TUCKER | 7/1/17                 |
| -         | -     | -        | -        | -                    | -                | DRAWN BY: R. CURLEE    | 7/5/17                 |
| -         | -     | -        | -        | -                    | -                | CHECKED BY: P. TUCKER  | 7/5/17                 |
| -         | -     | -        | -        | -                    | -                | APPROVED               |                        |
| -         | -     | -        | -        | -                    | -                | APPROVED BY:           | ENGR.                  |
| -         | -     | -        | -        | -                    | -                | APPROVED BY:           | MEAS.                  |
| REF. DWG. | TITLE | REV. BY: | APR. BY: | REVISION DESCRIPTION | REPLACES DRAWING | DATE                   | APPROVED BY: P. TUCKER |

WALL  
DROP PANEL OR MASONRY  
PLAN VIEW

ENGINEERING GUIDELINE

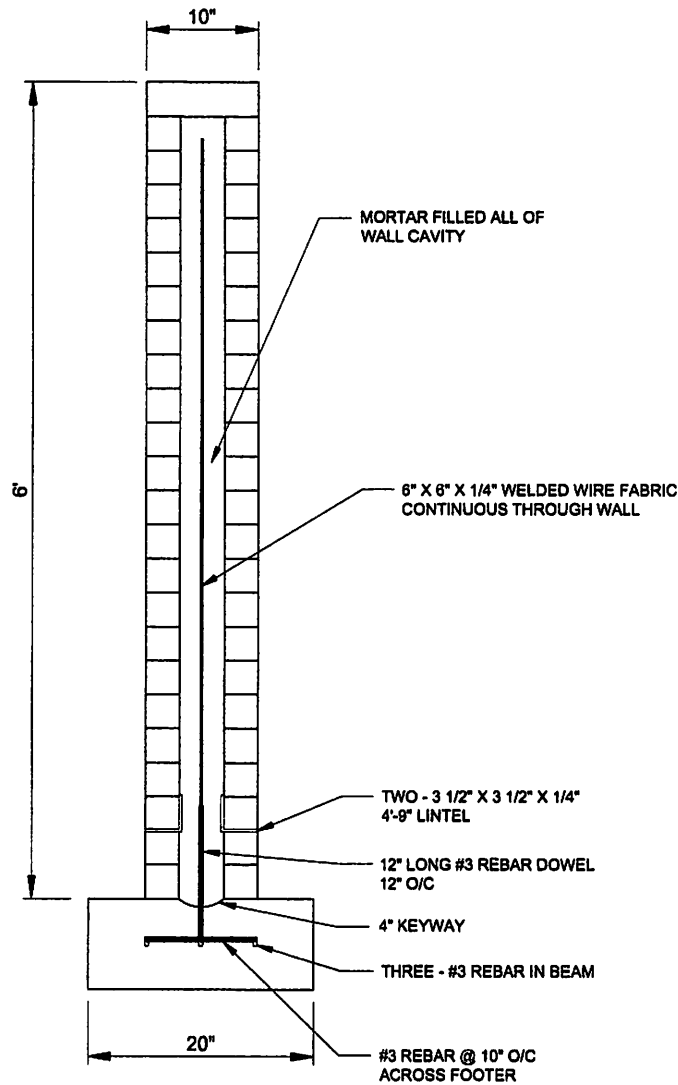
A.I.N. DSWR#:  
DWG. NO. STD. 11-104-00 SHT. -01

**ATMOS**  
energy

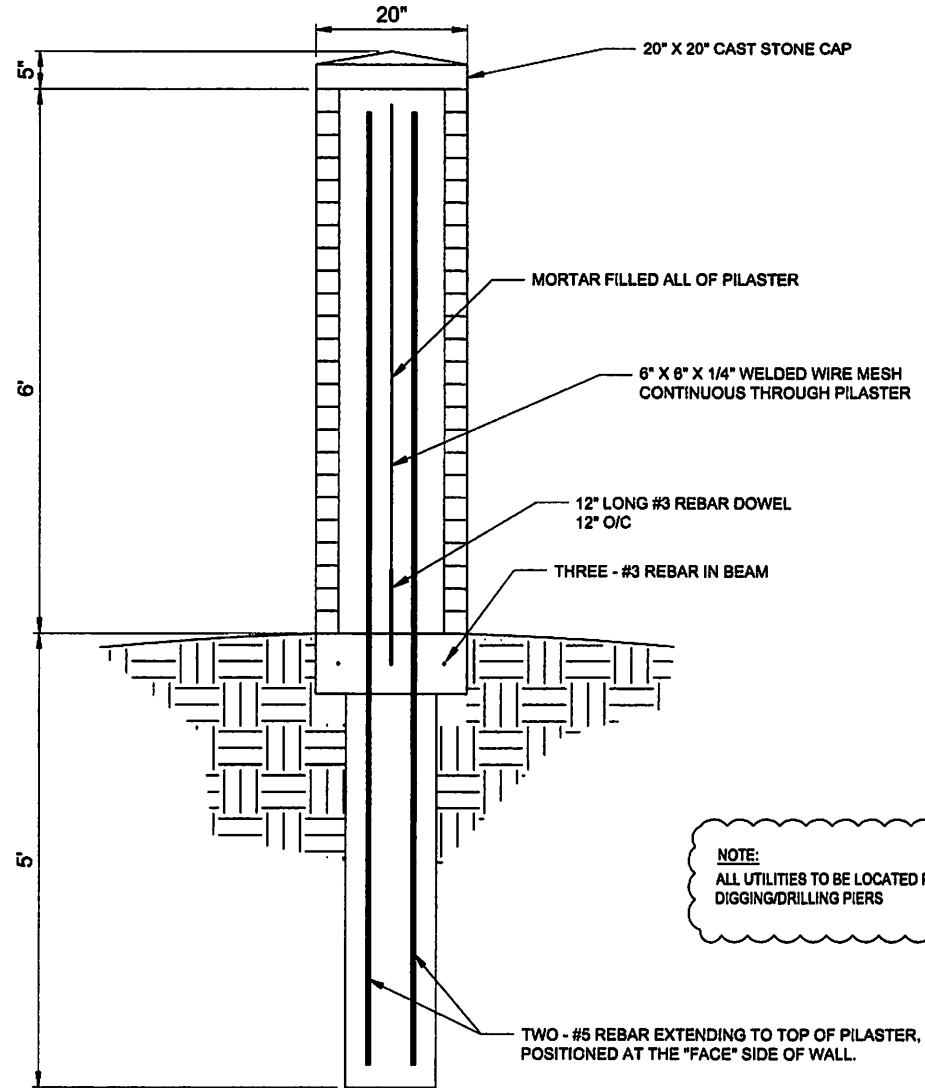


ELEVATION  
SCALE 3/4"=1' 0"

|           |       |          |          |                      |                  |                        |                        |                                                    |        |                         |          |
|-----------|-------|----------|----------|----------------------|------------------|------------------------|------------------------|----------------------------------------------------|--------|-------------------------|----------|
| -         | -     | -        | -        | -                    | -                | DESIGNED BY: P. TUCKER | 7/1/17                 | WALL<br>DROP PANEL OR MASONRY<br>TYPICAL ELEVATION |        | <b>ATMOS</b><br>energy  |          |
| -         | -     | -        | -        | -                    | -                | DRAWN BY: R. CURLEE    | 7/5/17                 |                                                    |        |                         |          |
| -         | -     | -        | -        | -                    | -                | CHECKED BY: P. TUCKER  | 7/5/17                 |                                                    |        |                         |          |
| -         | -     | -        | -        | -                    | -                | APPROVED               |                        |                                                    |        |                         |          |
| -         | -     | -        | -        | -                    | -                | APPROVED BY:           | ENGR.                  | ENGINEERING GUIDELINE                              |        |                         |          |
| -         | -     | -        | -        | -                    | -                | APPROVED BY:           | MEAS.                  |                                                    |        |                         |          |
| REF. DWG. | TITLE | REV. BY: | APR. BY: | REVISION DESCRIPTION | REPLACES DRAWING | DATE                   | APPROVED BY: P. TUCKER | STDS.                                              | 7/5/17 | DWG. NO. STD. 11-104-00 | SHT. -02 |



SECTION A  
SCALE 1-1/2"=1'-0"



NOTE:  
ALL UTILITIES TO BE LOCATED PRIOR TO DIGGING/DRILLING PIERS

SECTION B  
SCALE 1"=1'-0"

|           |       |          |          |                      |                  |                        |                        |                                           |        |                         |          |
|-----------|-------|----------|----------|----------------------|------------------|------------------------|------------------------|-------------------------------------------|--------|-------------------------|----------|
| -         | -     | -        | -        | -                    | -                | DESIGNED BY: P. TUCKER | 7/1/17                 | WALL<br>DROP PANEL OR MASONRY<br>SECTIONS |        | <b>ATMOS</b><br>energy  |          |
| -         | -     | -        | -        | -                    | -                | DRAWN BY: R. CURLEE    | 7/5/17                 |                                           |        |                         |          |
| -         | -     | -        | -        | -                    | -                | CHECKED BY: P. TUCKER  | 7/5/17                 |                                           |        |                         |          |
| -         | -     | -        | -        | -                    | -                | APPROVED               |                        |                                           |        |                         |          |
| -         | -     | -        | -        | -                    | -                | APPROVED BY:           | ENGR.                  | ENGINEERING GUIDELINE                     |        |                         |          |
| -         | -     | -        | -        | -                    | -                | APPROVED BY:           | MEAS.                  |                                           |        |                         |          |
| REF. DWG. | TITLE | REV. BY: | APR. BY: | REVISION DESCRIPTION | REPLACES DRAWING | DATE                   | APPROVED BY: P. TUCKER | STDS.                                     | 7/5/17 | DWG. NO. STD. 11-104-00 | SHT. -03 |

**1. CONSTRUCTION SHALL MEET OR EXCEED LOCAL ORDINANCES**

## 2.1. SITE EXAMINATION

- 2.1.1. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT PROPERTY LINES AND OTHER BOUNDARIES OF WORK ARE CLEARLY ESTABLISHED PRIOR TO THE BEGINNING OF WORK.
- 2.1.2. A FULL SURVEY OF PROPOSED WORK, INCLUDING EXISTING PIPELINE AND FACILITIES WILL BE PROVIDED BY ATMOS OR THE GENERAL CONTRACTOR.
- 2.1.3. CONTRACTOR WILL NOT BEGIN WORK UNTIL NOTIFIED BY EITHER ATMOS OR THE GENERAL CONTRACTOR THAT CONSTRUCTION CAN COMMENCE.
- 2.1.4. ALL UTILITIES TO BE LOCATED PRIOR TO DIGGING/DRILLING PIERS.

### 3. CENTER PIPE BETWEEN PIERS

**4. ALL PIPE SHALL BE LOCATED AND EXPOSED PRIOR TO PIER CONSTRUCTION**

5.  $F'C = 3500 \text{ PSI @ 28 DAYS}$

6. REBAR = A615, GR. 60

7. STRUCTURAL STEEL TO BE GR. 50

### 8. PROPER SOIL COMPACTION ASSUMED UNDER FOOTER

### 9. PIERS TO BE POURED NEAT AGAINST SHAFT EXCAVATION

**10. MORTAR TO BE 1800 PSI (MIN.) @ 28 DAYS**

## 11. POUR PIERS AND FOOTER MONOLITHICALLY

**12. #3 DOWELS FROM THE FOOTER TO LAP 6 x 6-1/4" WWF IN WALL CORE**

13. 6 x 6-1/4" WWF TO BE CONT. THRU PILASTER

14. LAP SPLICES -  
14.1 REBAR - 36 DIA'S  
14.2 WWF - 1-1/2 SQUARES

**15. GATE'S LOCATIONS WILL MOST LIKELY BE DETERMINED BY CITY/ORDINANCES**

#### 16. CONTRACTOR TO FIELD VERIFY DIMENSIONS

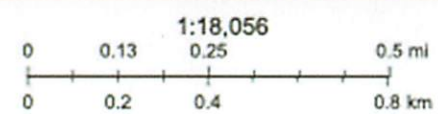
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|-----------|-------|----------|----------|----------------------|-----------------------|------------------------|--------|----------------------------------------|---------------------------------------------------------------------------------------|----------|
| -         | -     | -        | -        | -                    | -                     | DESIGNED BY: P. TUCKER | 7/1/17 | WALL<br>DROP PANEL OR MASONRY<br>NOTES |  |          |
| -         | -     | -        | -        | -                    | -                     | DRAWN BY: R. CURLEE    | 7/5/17 |                                        |                                                                                       |          |
| -         | -     | -        | -        | -                    | -                     | CHECKED BY: P. TUCKER  | 7/5/17 |                                        |                                                                                       |          |
| -         | -     | -        | -        | -                    | -                     | APPROVED               |        |                                        |                                                                                       |          |
| -         | -     | -        | -        | -                    | -                     |                        |        |                                        |                                                                                       |          |
| -         | -     | -        | -        | -                    | -                     | APPROVED BY:           | ENGR.  |                                        |                                                                                       |          |
| -         | -     | -        | -        | -                    | -                     | APPROVED BY:           | MEAS.  |                                        |                                                                                       |          |
| REF. DWG. | TITLE | REV. BY: | APR. BY: | REVISION DESCRIPTION | REPLACES DRAWING DATE | APPROVED BY: P. TUCKER | STDS.  | 7/5/17                                 |                                                                                       | A.I.N.   |
|           |       |          |          |                      |                       |                        |        |                                        | DWG. NO. STD. 11-104-00                                                               | SHT. -04 |

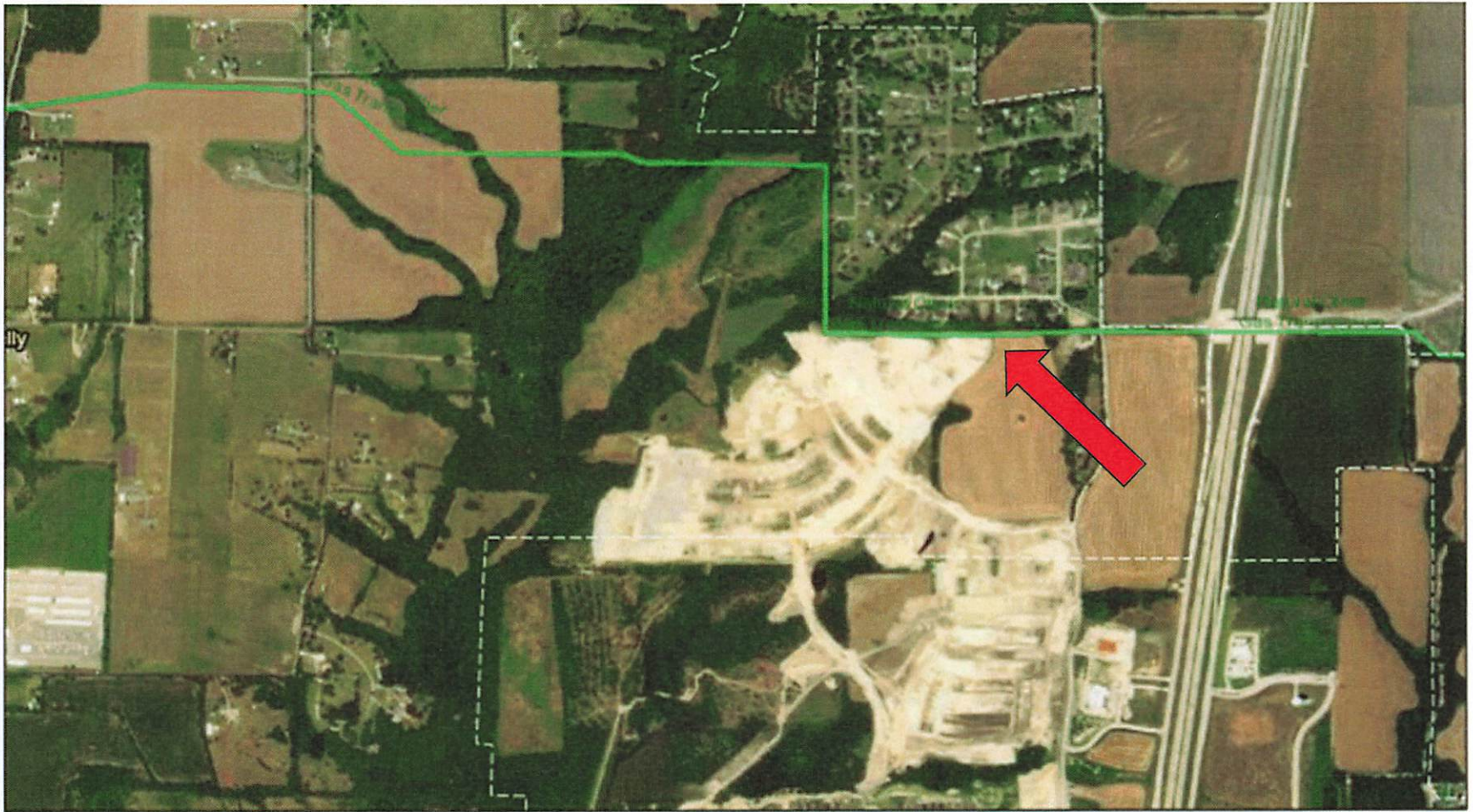
# SITE REQUIREMENTS

- Access to transmission pipeline
- Road accessible in all weather

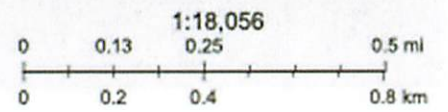


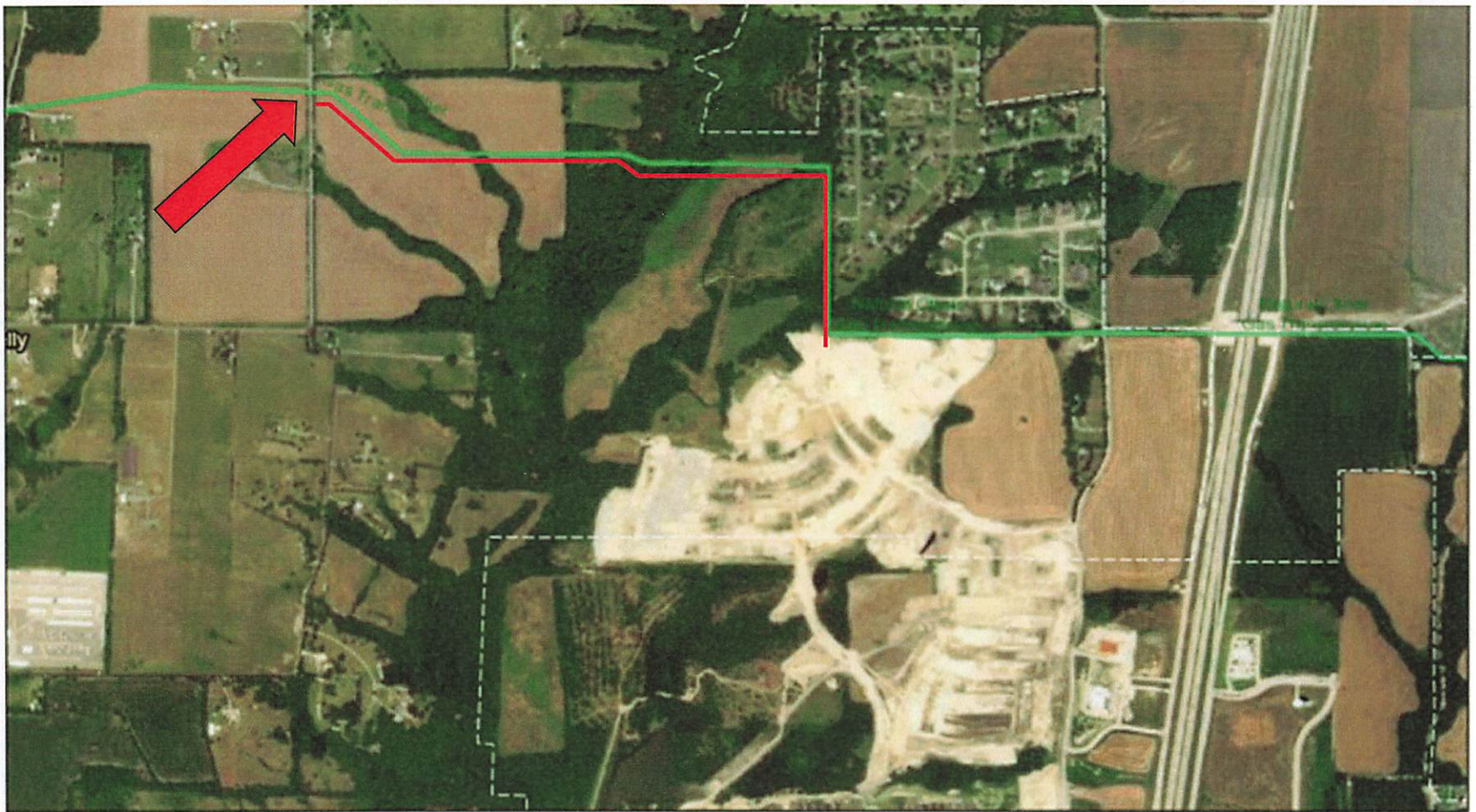
April 25, 2023



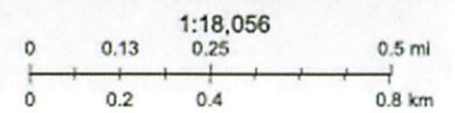


April 25, 2023





April 25, 2023



Won't this just be in someone else's backyard?

- As population grows, transmission line must be odorized
- Non-issue anyways

Natural Gas Infrastructure

# Odorizers and Odorant Injection Stations

Presented at Anna City Council Meeting

April 25, 2023

Blake Branson, PhD



# ODORANT DOES NOT “FLOAT AWAY”

SAFETY DATA SHEET

**Chevron Phillips  
CHEMICAL**

**SCENTINEL® O-10 Gas Odorant**

Version 2.1 Revision Date 2022-08-17

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**Product Information**

Product Name : SCENTINEL® O-10 Gas Odorant  
Material : 1127873, 1098432, 1104051, 1024703, 1024707, 1024706, 1024705, 1024704

**Use** : Odorant

**Company** : Chevron Phillips Chemical Company LP  
Specialty Chemicals  
10001 Six Pines Drive  
The Woodlands, TX 77380

**Emergency telephone:**

**Health:**  
866.442.9628 (North America)  
1.832.813.4984 (International)

**Transport:**  
CHEMTREC 800.424.9300 or 703.527.3887 (intl)  
Asia: CHEMWATCH (+612 9166 1132) China: 0532 8368 9090  
Mexico: CHEMTREC 01-800-681-9531 (24 hours)  
South America: SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600  
Argentina: +(54)-1159839431  
EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)  
Austria: VIZ +43 1 406 43 43 (24 hours/day, 7 days/week)  
Belgium: 070 245 245 (24 hours/day, 7 days/week)  
Bulgaria: +359 2 9154 233  
Croatia: +3851 2348 342 (24 hours/day, 7 days/week)  
Cyprus: 1401  
Czech Republic: Toxicological Information Center +420 224 919 293, +420 224 915 402  
Denmark: Danish Poison Center (Giftinjön): +45 8212 1212  
Estonia: BIG +32.14.584545 (phone) or +32.14583516 (telefax)  
Finland: 0800 147 111 09 471 977 (24 hours/day)  
France: ORFILA number (NRS): +33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week)  
Germany: BIG +32.14.584545 (phone) or +32.14583516 (telefax)  
Greece: (0030) 2107793777 (24 hours/day, 7 days/week)  
Hungary: +36-80-201-199 (24 hours/day, 7 days/week)  
Iceland: 543 2222 (24 hours/day, 7 days/week)  
Ireland: BIG +32.14.584545 (phone) or +32.14583516 (telefax)  
Italy: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

SDS Number:100000014191 1/22

Page 4:

SAFETY DATA SHEET

**SCENTINEL® O-10 Gas Odorant**

Version 2.1 Revision Date 2022-08-17

**NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**SECTION 3: Composition/information on ingredients**

**Synonyms** : Mercaptan Mixture  
Gas Odorant

**Molecular formula** : Mixture

| Component           | CAS-No.  | Weight % |
|---------------------|----------|----------|
| Isopropyl Mercaptan | 75-33-2  | 60 - 75  |
| t-Butyl Mercaptan   | 75-66-1  | 5 - 15   |
| n-Propyl Mercaptan  | 107-03-9 | 5 - 15   |
| Dimethyl Sulfide    | 75-18-3  | 5 - 15   |

Page 8:

**SECTION 9: Physical and chemical properties**

**Information on basic physical and chemical properties**

**Relative vapor density** : 1  
(Air = 1.0)

# ODORANT DOES NOT “FLOAT AWAY”

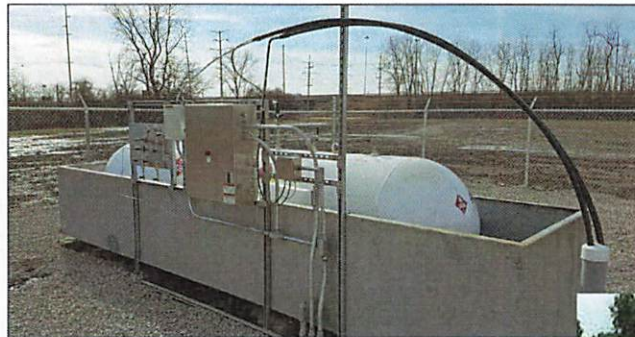
| SAFETY DATA SHEET                                                                                                                                                                                                                                                                                                                                               |                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                |                                                                                                                   |
| <b>Isopropyl Mercaptan</b>                                                                                                                                                                                                                                                                                                                                      |                                                                                                                   |
| Version 3.2                                                                                                                                                                                                                                                                                                                                                     | Revision Date 2020-04-13                                                                                          |
| <b>SECTION 1: Identification of the substance/mixture and of the company/undertaking</b>                                                                                                                                                                                                                                                                        |                                                                                                                   |
| <b>Product information</b>                                                                                                                                                                                                                                                                                                                                      |                                                                                                                   |
| Product Name                                                                                                                                                                                                                                                                                                                                                    | : Isopropyl Mercaptan                                                                                             |
| Material                                                                                                                                                                                                                                                                                                                                                        | : 1083608, 1029885, 1021450, 1028387, 1021451, 1027451, 1021448, 1031054, 1021449                                 |
| <b>Company</b>                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                 | : Chevron Phillips Chemical Company LP<br>Specialty Chemicals<br>10001 Six Pines Drive<br>The Woodlands, TX 77380 |
| <b>Emergency telephone:</b>                                                                                                                                                                                                                                                                                                                                     |                                                                                                                   |
| <b>Health:</b><br>866.442.9628 (North America)<br>1.832.813.4984 (International)                                                                                                                                                                                                                                                                                |                                                                                                                   |
| <b>Transport:</b><br>CHEMTREC 800.424.9300 or 703.527.3887(int'l)<br>Asia: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090<br>EUROPE: BIG +32 14 584545 (phone) or +32 14583516 (telefax)<br>Mexico CHEMTREC 01-800-681-9531 (24 hours)<br>South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600<br>Argentina: +(54)-1159839431 |                                                                                                                   |
| Responsible Department                                                                                                                                                                                                                                                                                                                                          | : Product Safety and Toxicology Group                                                                             |
| E-mail address                                                                                                                                                                                                                                                                                                                                                  | : SDS@CPChem.com                                                                                                  |
| Website                                                                                                                                                                                                                                                                                                                                                         | : www.CPChem.com                                                                                                  |
| <b>SECTION 2: Hazards Identification</b>                                                                                                                                                                                                                                                                                                                        |                                                                                                                   |
| <b>Classification of the substance or mixture</b><br>This product has been classified in accordance with the hazard communication standard 29 CFR 1910.1200, the SDS and labels contain all the information as required by the standard.                                                                                                                        |                                                                                                                   |
| <b>Classification</b>                                                                                                                                                                                                                                                                                                                                           | : Flammable liquids, Category 2<br>Skin sensitization, Sub-category 1B                                            |
| <b>Labeling</b>                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                   |
| SDS Number:10000008542                                                                                                                                                                                                                                                                                                                                          | 1/16                                                                                                              |

Page 5 - 6:

| SAFETY DATA SHEET                                  |                          |
|----------------------------------------------------|--------------------------|
| <b>Isopropyl Mercaptan</b>                         |                          |
| Version 3.2                                        | Revision Date 2020-04-13 |
| <b>SECTION 9: Physical and chemical properties</b> |                          |
| Relative vapor density                             | : 2.62<br>(Air = 1.0)    |
| Evaporation rate                                   | : 1<br>estimated         |
| Percent volatile                                   | : > 99 %                 |

# ODORANT INJECTION STATIONS ARE NOT SITED IN RESIDENTIAL LOCATIONS

Google Image Search Results for “Odorant Injection Station”



## ODORANT INJECTION STATIONS ARE NOT SITED IN RESIDENTIAL LOCATIONS

- This is the only pipeline operated by ATMOS that isn't odorized
  - *Per Atmos rep at April 3 P & Z meeting*
- Where are the other odorizer stations built in residential neighborhoods?
- What is the track record for Atmos operating these stations?

# ODORANT HAS KNOWN TOXICITY

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| SAFETY DATA SHEET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                   |
| <b>SCENTINEL® O-10 Gas Odorant</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                   |
| Version 2.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Revision Date 2022-08-17                                                                                          |
| <b>SECTION 1: Identification of the substance/mixture and of the company/undertaking</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                   |
| <b>Product Information</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                   |
| Product Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | : SCENTINEL® O-10 Gas Odorant                                                                                     |
| Material                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | : 1127873, 1098432, 1104051, 1024703, 1024707, 1024706, 1024705, 1024704                                          |
| <b>Use</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                   |
| Use                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | : Odorant                                                                                                         |
| <b>Company</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                   |
| Company                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | : Chevron Phillips Chemical Company LP<br>Specialty Chemicals<br>10001 Six Pines Drive<br>The Woodlands, TX 77380 |
| <b>Emergency telephone:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                   |
| <b>Health:</b><br>866.442.9628 (North America)<br>1.832.813.4984 (International)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                   |
| <b>Transport:</b><br>CHEMTREC 800.424.9300 or 703.527.3887 (intl)<br>Asia: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090<br>Mexico: CHEMTREC 01-800-681-9531 (24 hours)<br>South America: SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600<br>Argentina: +(54)-1159839431<br>EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)<br>Austria: VIZ +43 1 406 43 43 (24 hours/day, 7 days/week)<br>Belgium: 070 245 245 (24 hours/day, 7 days/week)<br>Bulgaria: +359 2 9154 233<br>Croatia: +3851 2348 342 (24 hours/day, 7 days/week)<br>Cyprus: 1401<br>Czech Republic: Toxicological Information Center +420 224 919 293, +420 224 915 402<br>Denmark: Danish Poison Center (Giftnjæn): +45 8212 1212<br>Estonia: BIG +32.14.584545 (phone) or +32.14583516 (telefax)<br>Finland: 0800 147 111 09 471 977 (24 hours/day)<br>France: ORFILA number (INRS): +33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week)<br>Germany: BIG +32.14.584545 (phone) or +32.14583516 (telefax)<br>Greece: (0030) 2107793777 (24 hours/day, 7 days/week)<br>Hungary: +36-80-201-199 (24 hours/day, 7 days/week)<br>Iceland: 543 2222 (24 hours/day, 7 days/week)<br>Ireland: BIG +32.14.584545 (phone) or +32.14583516 (telefax)<br>Italy: BIG +32.14.584545 (phone) or +32.14583516 (telefax) |                                                                                                                   |
| SDS Number:100000014191                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1/22                                                                                                              |

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## SECTION 11: Toxicological information

### SCENTINEL® O-10 Gas Odorant

Acute oral toxicity : Acute toxicity estimate: 2,799 mg/kg  
Method: Calculation method

### SCENTINEL® O-10 Gas Odorant

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l

SDS Number:100000014191

8/22

## SAFETY DATA SHEET

### SCENTINEL® O-10 Gas Odorant

Version 2.1

Revision Date 2022-08-17

Exposure time: 4 h  
Test atmosphere: vapor  
Method: Calculation method

# ODORANT DOES NOT “FLOAT AWAY”

A 250 gallon tank of SCENTINEL® 0-10 could form a toxic cloud:

- 10' tall
- 400' wide
- Potential to be wind-blown

