1. Identification
Product identifier: Sulfur, Liquid
Other means of identification
SDS number: 10
Recommended use: Feedstock.
Recommended restrictions: None known.
Manufacturer / Importer / Supplier / Distributor information
Company name: DCP Midstream
Address: 370 17 Street Suite 2500 Denver, CO 80202
Telephone: (303) 595-3331
E-mail: safety@dcpmidstream.com
Contact person: Mark Prewitt
Emergency phone number: CHEMTREC - 24 HOURS: 800-424-9300

2. Hazard(s) identification
Physical hazards: Not classified.
Health hazards: Skin corrosion/irritation Category 2
OSHA hazard(s): Not classified
Label elements
Hazard symbol

Signal word: Warning
Hazard statement: Causes skin irritation.
Precautionary statement
Prevention: Wash hands thoroughly after handling.
Response: If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
Storage: Store away from incompatible materials.
Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC): Not classified.

3. Composition/information on ingredients
Mixture
Hazardous components

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfur</td>
<td></td>
<td>7704-34-9</td>
<td>99</td>
</tr>
<tr>
<td>Hydrogen Sulfide</td>
<td></td>
<td>07783-06-4</td>
<td>1</td>
</tr>
</tbody>
</table>

Composition comments: All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures
Inhalation

Immediately remove from further exposure. Get immediate medical assistance. For those providing assistance, avoid exposure to yourself or others.

Skin contact

Immediately remove contaminated clothing. Wash with soap and water. Continue to rinse for at least 15 minutes. In case of rashes, wounds or other skin disorders: Seek medical attention and bring along these instructions.

Eye contact

Immediately flush with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.

Ingestion

Seek immediate medical attention or advice.

Most important symptoms/effects, acute and delayed

Exposed individuals may experience eye tearing, redness and discomfort.

Indication of immediate medical attention and special treatment needed

Treat symptomatically. May cause lung edema. For inhalation exposures, person should be monitored for delayed development of pulmonary edema up to 48 - 72 hours post-exposure.

General information

Treat symptomatically if comfort continues.

5. Fire-fighting measures

NFPA 704 Hazard Class
Health: 2
Flammability: 1
Instability: 0
(0-Minimal, 1-Slight, 2-Moderate, 3-Serious, 4-Severe)

Suitable extinguishing media

Water spray, foam, dry powder or carbon dioxide.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Not applicable.

Special protective equipment and precautions for firefighters

Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting equipment/instructions

Move containers from fire area if you can do it without risk. Use water spray to cool unopened containers. Cool containers with flooding quantities of water until well after fire is out.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Stay upwind. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid inhalation of vapors and spray mist and contact with skin and eyes. Wear suitable protective clothing, gloves and eye/face protection. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Wipe up with absorbent material (e.g. cloth, fleece)

Environmental precautions

Avoid release to environment.
7. Handling and storage

Precautions for safe handling

Provide adequate ventilation. Avoid inhalation of vapors/mist and contact with skin and eyes. The product is extremely flammable, and explosive vapor/air mixtures may be formed even at normal room temperatures. Ground container and transfer equipment to eliminate static electric sparks. Use non-sparking hand tools and explosion-proof electrical equipment. Wear appropriate personal protective equipment. Immediately change contaminated clothes. Do not eat, drink or smoke when using the product. Observe good industrial hygiene practices. Use only bottom loading of tankers, in compliance with European legislation. Do not use compressed air for filling, discharging, or handling operations. Empty containers may contain flammable product residues.

Conditions for safe storage, including any incompatibilities

Liquid sulfur should not be put into any tank, railcar, or truck trailer that contains trace quantities of hydrocarbons, or more than trace amounts of moisture. Store solid sulfur in clearly labeled containers that are tightly closed. The storage location must be cool, dry, well-ventilated, and away from flames or other sources of ignition. Keep away from any incompatible material. Protect containers against physical damage. Post area “No Smoking or Open Flame”.

8. Exposure controls/personal protection

Occupational exposure limits

U.S. OSHA Table Z-2 Limits for Air Contaminants (29 CFR 1910.1000)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen Sulfide (CAS 07783-06-4)</td>
<td>Ceiling</td>
<td>20 ppm</td>
</tr>
</tbody>
</table>

U.S. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen sulfide (CAS 07883-06-4)</td>
<td>STEL</td>
<td>5 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>1 ppm</td>
</tr>
</tbody>
</table>

US. NIOSH: Pocket Guide to Chemical Hazards

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen Sulfide (CAS 07783-06-4)</td>
<td>Ceiling</td>
<td>15 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 ppm</td>
</tr>
</tbody>
</table>

Biological Limit Values

No biological exposure limits noted for the ingredient(s).

Exposure guidelines

No exposure standards allocated.

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection

Risk of eye contact: wear safety glasses with side shields. (Or goggles)

Skin protection

Protective gloves are recommended.

Hand protection

Wear chemical-resistant gloves, footwear and protective clothing appropriate for risk of exposure. Contact glove manufacturer for specific information. Lab coat.

Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Respirator type: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance
Yellow. Dark yellow. Liquid.

Physical state
Liquid.

Form
Liquid

Color
Yellow. Dark yellow.

Odor
Rotten egg or sulfur smell

Odor threshold
Not available.

pH
Not available.

Melting point/freezing point
246.2 °F (119 °C)

Initial boiling point and boiling range
831.2 °F (444 °C)

Flash point
404.6 °F (207 °C)

Evaporation rate
Not available.

Flammability (solid, gas)
Not applicable.

Upper/lower flammability or explosive limits
Flammability limit – lower (%)
35 g/m3

Flammability limit – upper (%)
1400 g/m3

Vapor pressure
1 mm Hg

Vapor density
Not available.

Relative density
1.8 (Water=1)

Relative density temperature
68 °F (20 °C)

Solubility(ies)
Insoluble in water

Partition coefficient (n-octanol/water)
Not available.

Auto-ignition temperature
449.6 °F (232 °C)

Decomposition temperature
Not available.

Viscosity
6.5 cP (184°C / 363°F)

Bulk Density
15 lb/gal

10. Stability and reactivity

Reactivity
Not available.

Chemical stability
Stable under normal temperature conditions.

Possibility of hazardous Reactions
Hazardous polymerization does not occur.
Conditions to avoid
Heat, flames and sparks. Elevated temperatures and incompatible materials.

Incompatible materials
Strong oxidizing agents.

Hazardous decomposition products
Molten Sulfur reacts with hydrocarbons to form carbon disulfide and hydrogen sulfide. Combustion can yield oxides of sulfur.

11. Toxicological information

Information on likely routes of exposure

Ingestion
May be fatal if swallowed and enters airways.

Inhalation
May cause drowsiness or dizziness.

Skin contact
Causes skin irritation.

Eye contact
May cause eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics
Headaches, dizziness, fatigue, nausea and vomiting. Prolonged skin contact may cause redness, irritation and dry skin.

Information on toxicological effects

Acute toxicity
Breathing of high concentrations may cause dizziness, light-headedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness.

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen Sulfide (CAS 07783-06-4)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inhalation LC50</td>
<td>Rat</td>
<td>0.38 mg/l, 4 Hours</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation
Causes skin irritation. Contact with heated material may cause burns.

Serious eye damage/eye irritation
Elevated temperatures or mechanical action may form dust and fumes which may be irritating to the eye. Exposure to hot material may cause thermal burns.

Respiratory sensitization
None known.

Skin sensitization
Not a skin sensitizer.

Germ cell mutagenicity
None known.

Carcinogenicity
This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Reproductive toxicity
None known.

Specific target organ toxicity - single exposure
None known.

Specific target organ toxicity - repeated exposure
None known.

Aspiration hazard
None known.

Chronic effects
Solid and liquid sulfur may release hydrogen sulfide gas. Hydrogen sulfide may rapidly cause irritation, breathing failure, coma, and death without necessarily any warning odor being sensed.
12. Ecological information

Ecotoxicity

Hydrogen sulfide (H2S) may be given off when this material is heated. Do not depend on sense of smell for warning.

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen sulfide (CAS 7783-06-4)</td>
<td>Aquatic Fish</td>
<td>LC50 Lake Whitefish (Coregonus clupeaformis)</td>
</tr>
<tr>
<td>Sulfur (CAS 7704-34-9)</td>
<td>Aquatic Fish</td>
<td>LC50 Western mosquitofish (Gambusia affinis)</td>
</tr>
</tbody>
</table>

Persistence and degradability

No data available.

Mobility in soil

Not available.

Mobility in general

The product is miscible with water. May spread in water systems.

Other adverse effects

Not established.

13. Disposal considerations

Disposal instructions

Product is suitable for burning in an enclosed, controlled burner for fuel value or disposal by supervised incineration.

Local disposal regulations

Dispose of in accordance with local regulations.

Hazardous waste code

D001: Waste Flammable material with a flash point <140 °F

Waste from residues / unused products

Dispose of in accordance with local regulations

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

UN number UN2448
UN proper shipping name Sulfur, molten
Transport hazard class(es) 4.1
Subsidiary class(es) -
Packing group III
Special precautions for user Not available.
Labels required 4.1
Special provisions 30, IB1, T1, TP3
Packaging exceptions None
Packaging non bulk 213
Packaging bulk 247

IATA

UN number UN2448
UN proper shipping name Sulfur, molten
Transport hazard class(es) 4.1
Subsidiary class(es) -
Packing group III
Labels required 4.1
ERG Code Not available.
Special precautions for user Not available.

IMDG

UN number UN2448
UN proper shipping name: Sulfur, molten
Transport hazard class(es): 4.1
Subsidiary class(es): -
Packaging group: III
Labels required: 4.1
EmS: Not available.
Special precautions for user: Not available.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:
No information available.

15. Regulatory information

US federal regulations
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not on regulatory list.
CERCLA Hazardous Substance List (40 CFR 302.4)
Hydrogen sulfide (CAS 7783-06-4) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)
Hazard categories
Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No
SARA 302 Extremely hazardous substance
No
SARA 311/312 Hazardous Chemical
Yes

Other federal regulations
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Not regulated.
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Hydrogen sulfide (CAS 7783-06-4)
Safe Drinking Water Act (SDWA)
Not regulated.
Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number
Not listed.
Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))
Not listed.
DEA Exempt Chemical Mixtures Code Number
Not listed.
Food and Drug Administration (FDA)
Not regulated.

US state regulations
This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US. Massachusetts RTK - Substance List
Hydrogen sulfide (CAS 7783-06-4)
Sulfur (CAS 7704-34-9)

US. New Jersey Worker and Community Right-to-Know Act
Hydrogen sulfide (CAS 7783-06-4) 500 LBS

US. Pennsylvania RTK - Hazardous Substances
Hydrogen sulfide (CAS 7783-06-4)
Sulfur (CAS 7704-34-9)

US. Rhode Island RTK
Hydrogen sulfide (CAS 7783-06-4)
Sulfur (CAS 7704-34-9)

US. California Proposition 65
US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance
Not listed.

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

16. Other information, including date of preparation or last version

Issue date: 12-5-2012
Revision date: 2-5-2013
Version # 01
Further information: Not available.
References: ACGIH
EPA: Acquire database
NLM: Hazardous Substances Data Base
US. IARC Monographs on Occupational Exposures to Chemical Agents
Disclaimer: This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.