1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product information

Trade name: Dimethyl Disulfide
Material: 1093527, 1086484, 1095605, 1095604, 1095602, 1097432, 1093526, 1095603, 1076483, 1034521, 1035203, 1031147, 1032633, 1034638, 1031751, 1036662, 1034642, 1031840, 1036791, 1036352, 1034634, 1036792, 1036131, 1024538

EC-No. Registration number

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Index-No.</th>
<th>Registration number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimethyl Disulfide</td>
<td>624-92-0</td>
<td>01-2119484867-17-0001</td>
<td></td>
</tr>
</tbody>
</table>

Relevant Identified Uses: Use as an intermediate

Company

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

Local

Chevron Phillips Chemicals International N.V.
Brusselsesteenweg 355
B-3090 Overijse
Belgium

MSDS Requests: (800) 852-5530
Technical Information: (832) 813-4862
Responsible Party: Product Safety Group
Email: msds@cpchem.com

Emergency telephone:

Health:
866.442.9628 (North America)
1.832.813.4984 (International)

Transport:
North America: CHEMTREC 800.424.9300 or 703.527.3887
Asia: +800 CHEMCALL (+800 2436 2255) China: 0532.8388.9090
EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (teletax)
Chemcare Asia: Tel: +65 6848 9048 - Mob: +65 8382 9188 - Fax: +65 6848
South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600

Responsible Department: Product Safety and Toxicology Group
E-mail address: MSDS@CPChem.com
Website: www.CPChem.com
2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)
- Chronic aquatic toxicity, Category 2: H411: Toxic to aquatic life with long lasting effects.
- Flammable liquids, Category 2: H225: Highly flammable liquid and vapor.
- Specific target organ systemic toxicity - single exposure, Category 3, Nasal inner lining: H335: May cause respiratory irritation.
- Acute toxicity, Category 3: H331: Toxic if inhaled.
- Acute toxicity, Category 4: H302: Harmful if swallowed.
- Eye irritation, Category 2: H319: Causes serious eye irritation.
- Acute toxicity: H335: May cause respiratory irritation.
- H319: May cause drowsiness or dizziness.

Classification (67/548/EEC, 1999/45/EC)
- Flammable: R11: Highly flammable.
- Harmful: R20/22: Harmful by inhalation and if swallowed.
- Irritant: R36/37: Irritating to eyes and respiratory system.
- Dangerous for the environment: R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Label elements

Labeling (REGULATION (EC) No 1272/2008)
- Hazard pictograms: 
  ![Flammable](image)
  ![Toxic](image)
  ![Irritating](image)

Signal Word: Danger

Hazard Statements:
- H225: Highly flammable liquid and vapor.
- H302: Harmful if swallowed.
- H319: Causes serious eye irritation.
- H331: Toxic if inhaled.
- H335: May cause respiratory irritation.
- H336: May cause drowsiness or dizziness.
- H411: Toxic to aquatic life with long lasting effects.

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.
- P243: Take precautionary measures against static discharge.
- P273: Avoid release to the environment.
- P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:
- P303 + P361 + P353: IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
- P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable.
Dimethyl Disulfide

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for breathing.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P311

Call a POISON CENTER or doctor/physician.

Storage:

P403 + P235

Store in a well-ventilated place. Keep cool.

Hazardous ingredients which must be listed on the label:

• 624-92-0 Dimethyl Disulfide

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms:

DMDS, Disulfide, dimethyl Dimethyl disulfide, Dimethyl disulphide, (Methyldithio) methane Methyl disulfide

Molecular formula:

C2H6S2

Mixtures

Hazardous ingredients

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimethyl Disulfide</td>
<td>624-92-0</td>
<td>R11 Xn; R20/22 Xi; R36/37 R51/53</td>
<td>Aquatic Chronic 2; Flam. Liq. 2; H225 STOT SE 3; H335 Acute Tox. 3; H331 Acute Tox. 4; H302 Eye Irrit. 2; H319</td>
<td>99 - 100</td>
</tr>
</tbody>
</table>

EC-No. Registration number

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Registration number</th>
</tr>
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<tbody>
<tr>
<td>Dimethyl Disulfide</td>
<td>624-92-0</td>
<td>01-2119484867-17-0001</td>
</tr>
</tbody>
</table>

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

General advice:

Move out of dangerous area. Consult a physician. Show this
**Dimethyl Disulfide**

**Version 2.0**

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Material safety data sheet to the doctor in attendance. Symptoms of poisoning may only appear several hours later. Do not leave the victim unattended.

If inhaled:
- Call a physician or poison control center immediately. If unconscious place in recovery position and seek medical advice.

In case of skin contact:
- If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact:
- Immediately flush eye(s) with plenty of water. 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. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

### 5. FIRE-FIGHTING MEASURES

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash point</td>
<td>15 °C (59 °F) Method: closed cup</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Suitable extinguishing media</td>
<td>Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical.</td>
</tr>
<tr>
<td>Unsuitable extinguishing media</td>
<td>High volume water jet.</td>
</tr>
<tr>
<td>Specific hazards during fire fighting</td>
<td>Do not allow run-off from fire fighting to enter drains or water courses.</td>
</tr>
<tr>
<td>Special protective equipment for fire-fighters</td>
<td>Wear self contained breathing apparatus for fire fighting if necessary.</td>
</tr>
<tr>
<td>Further information</td>
<td>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.</td>
</tr>
<tr>
<td>Fire and explosion protection</td>
<td>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.</td>
</tr>
<tr>
<td>Hazardous decomposition products</td>
<td>Hydrogen Sulfide. Sulfur oxides.</td>
</tr>
</tbody>
</table>

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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).

7. HANDLING AND STORAGE

Handling

Advice on safe handling: Avoid formation of aerosol. Do not breathe vapors/dust. 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.

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: Prevent unauthorized access. 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.

8. EXPOSURE CONTROLS/PERSOAL PROTECTION

Ingredients with workplace control parameters

<table>
<thead>
<tr>
<th>LT</th>
<th>Komponentai</th>
<th>Pagrindas, baze</th>
<th>Vertė</th>
<th>Kontroles parametrai</th>
<th>Pastaba</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimethyl Disulfide</td>
<td>LT OEL</td>
<td>IPRD</td>
<td>1 ppm, 5</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**PL**

<table>
<thead>
<tr>
<th>Składniki</th>
<th>Podstawa</th>
<th>Wartość</th>
<th>Parametry dotyczące kontroli</th>
<th>Uwaga</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimethyl Disulfide</td>
<td>PL NDS</td>
<td>NDS</td>
<td>2,5 mg/m3</td>
<td></td>
</tr>
</tbody>
</table>

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**Dimethyl Disulfide**

**Version 2.0**

**Revision Date:** 2011-03-02

---

### Beständsdelar

<table>
<thead>
<tr>
<th>Beständsdelar</th>
<th>Grundval</th>
<th>Värde</th>
<th>Kontrollparametrar</th>
<th>Anmärkning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimethyl Disulfide</td>
<td>SE AFS</td>
<td>NGV</td>
<td>1 ppm,</td>
<td>24.</td>
</tr>
</tbody>
</table>

24 = Nivånivån 1 ppm gäller för summan av halterna av dimetyldisulfid, dimetylsulfid och metantiol.

---

### Komponentid, osad

<table>
<thead>
<tr>
<th>Alased</th>
<th>Väärtus</th>
<th>Kontrollparametrat</th>
<th>Märkused</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimethyl Disulfide</td>
<td>EE OEL</td>
<td>Piirnorm</td>
<td>1 ppm,</td>
</tr>
</tbody>
</table>

12 = Piirnorm 1 ppm väljendab dimetyldisulfaadi, dimetylsulfaadi ja metüülmerkaatiaari summaardset sisaldust.

---

### Personal protective equipment

**Respiratory protection**

In the case of vapor formation use a respirator with an approved filter.

**Hand protection**

The suitability for a specific workplace should be discussed with the producers of the protective gloves.

**Eye protection**

Eye wash bottle with pure water. Tightly fitting safety goggles. Wear face-shield and protective suit for abnormal processing problems.

**Skin and body protection**

Impervious clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**Hygiene measures**

Avoid contact with skin, eyes and clothing. When using do not eat or drink. When using do not smoke. Wash hands before breaks and immediately after handling the product.

---

**For additional details, see the Exposure Scenario in the Annex portion**

---

### PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

**Appearance**

- **Form**: Liquid
- **Physical state**: Liquid
- **Color**: Yellow
- **Odor**: Mildly unpleasant

**Safety data**

- **Flash point**: 15 °C (59 °F)
  - Method: closed cup
- **Lower explosion limit**: 1,1 %(V)
- **Upper explosion limit**: 16 %(V)
- **Oxidizing properties**: No
- **Autoignition temperature**: No data available

---

**MSDS Number:** 100000013403

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#### Dimethyl Disulfide

**Version 2.0**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Molecular formula</td>
<td>C2H6S2</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>94.2 g/mol</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Pour point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point/bubbling range</td>
<td>109 °C (228 °F)</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>28.60 MMHG at 25 °C (77 °F)</td>
</tr>
<tr>
<td>Water solubility</td>
<td>Negligible</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>POW: 1.77</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>0.62 mPa.s</td>
</tr>
<tr>
<td>Relative vapor density</td>
<td>1 (Air = 1.0)</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Percent volatile</td>
<td>&gt; 99 %</td>
</tr>
</tbody>
</table>

### 10. STABILITY AND REACTIVITY

- **Chemical stability**: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

- **Possibility of hazardous reactions**
  - **Conditions to avoid**: Heat, flames and sparks.
  - **Other data**: No decomposition if stored and applied as directed.

### 11. TOXICOLOGICAL INFORMATION

- **Acute oral toxicity**
  - Dimethyl Disulfide: LD50: > 300 mg/kg
    - Species: rat
    - Sex: female
    - Method: OECD Test Guideline 423

- **Dimethyl Disulfide**
  - Skin irritation: May cause skin irritation in susceptible persons.
  - Eye irritation: May cause irreversible eye damage.

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Dimethyl Disulfide

11. SENSITIZATION

Dimethyl Disulfide: Did not cause sensitization on laboratory animals.

12. ASPIRATION TOXICITY

Dimethyl Disulfide: May be harmful if swallowed and enters airways.

13. CMR EFFECTS

Dimethyl Disulfide: Carcinogenicity: Not available
Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Teratogenicity: Not available
Reproductive toxicity: Not available

12. ECOLOGICAL INFORMATION

Toxicity to daphnia and other aquatic invertebrates.

Dimethyl Disulfide: LC50: 1.82 mg/l
Exposure time: 48 HR
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 202

Toxicity to algae

Dimethyl Disulfide: EC50: 0.31 mg/l
Exposure time: 96 HR
Species: Anabaena flosaquae (Blue-green algae)
Method: OECD Test Guideline 201

M-Factor
dimethyl disulphide: 1

Biodegradability

Dimethyl Disulfide: Result: Not readily biodegradable.
< 10 %
Method: OECD Test Guideline 301

Further information on ecology

Dimethyl Disulfide: Toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

The information in this MSDS 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, watercourses 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.

For additional details, see the Exposure Scenario in the Annex portion

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 MSDS and the bill of lading.

USDOT
UN2381, DIMETHYL DISULFIDE, 3, II

IMO / IMDG
UN2381, DIMETHYL DISULPHIDE, 3, II, MP (DIMETHYL DISULFIDE), (15 °C)

IATA
UN2381, DIMETHYL DISULPHIDE, 3, II

ADR
UN2381, DIMETHYL DISULPHIDE, 3, II

RID
UN2381, DIMETHYL DISULPHIDE, 3, II

15. REGULATORY INFORMATION

National legislation

Major Accident Hazard Legislation: 96/82/EC Update: 2003
Highly flammable
7b
Quantity 1: 5.000 t
Quantity 2: 50.000 t

Water contaminating class (Germany): WGK 2 water endangering
Classification according to appendix 3
ZDE_WGK Update: 2005-08-31
Notification status
Europe REACH : On the inventory, or in compliance with the inventory
United States of America US.TSCA : On the inventory, or in compliance with the inventory
Canada DSL : On the inventory, or in compliance with the inventory
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 : On the inventory, or in compliance with the inventory
Philippines PICCS : On the inventory, or in compliance with the inventory
China IECSC : On the inventory, or in compliance with the inventory

16. OTHER INFORMATION

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

Further information
Legacy MSDS Number : 96150

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

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

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

<table>
<thead>
<tr>
<th>Key or legend to abbreviations and acronyms used in the safety data sheet</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
</tr>
<tr>
<td>AICS</td>
</tr>
<tr>
<td>DSL</td>
</tr>
<tr>
<td>NDNSL</td>
</tr>
<tr>
<td>CNS</td>
</tr>
<tr>
<td>CAS</td>
</tr>
<tr>
<td>EC50</td>
</tr>
<tr>
<td>EC50</td>
</tr>
<tr>
<td>EINECS</td>
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<td>LOAEL</td>
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<td>NFPA</td>
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<td>NIOSH</td>
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<td>NOAEL</td>
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<tr>
<td>NOEC</td>
</tr>
<tr>
<td>NZioC</td>
</tr>
<tr>
<td>OSHA</td>
</tr>
<tr>
<td>PEL</td>
</tr>
</tbody>
</table>
Dimethyl Disulfide

MATERIAL SAFETY DATA SHEET

Version 2.0

Revision Date 2011-03-02

<table>
<thead>
<tr>
<th>Substances</th>
<th>PICCS</th>
<th>PICCS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAK</td>
<td>Germany Maximum Concentration Values</td>
<td>PICCS</td>
</tr>
<tr>
<td>GHS</td>
<td>Globally Harmonized System</td>
<td>PRNT</td>
</tr>
<tr>
<td>&gt;=</td>
<td>Greater Than or Equal To</td>
<td>RCRA</td>
</tr>
<tr>
<td>IC50</td>
<td>Inhibition Concentration 50%</td>
<td>STEL</td>
</tr>
<tr>
<td>IARC</td>
<td>International Agency for Research on Cancer</td>
<td>SARA</td>
</tr>
<tr>
<td>IECSC</td>
<td>Inventory of Existing Chemical Substances in China</td>
<td>TLV</td>
</tr>
<tr>
<td>ENCS</td>
<td>Japan, Inventory of Existing and New Chemical Substances</td>
<td>TWA</td>
</tr>
<tr>
<td>KECI</td>
<td>Korea, Existing Chemical Inventory</td>
<td>TSCA</td>
</tr>
<tr>
<td>&lt;=</td>
<td>Less Than or Equal To</td>
<td>UVCB</td>
</tr>
<tr>
<td>LC50</td>
<td>Lethal Concentration 50%</td>
<td>WHMIS</td>
</tr>
<tr>
<td>LD50</td>
<td>Lethal Dose 50%</td>
<td></td>
</tr>
</tbody>
</table>

Full text of R-phrases referred to under sections 2 and 3

R11       Highly flammable.
R20/22    Harmful by inhalation and if swallowed.
R36/37    Irritating to eyes and respiratory system.
R51/53    Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Full text of H-statements referred to under sections 2 and 3.

H225      Highly flammable liquid and vapor.
H302      Harmful if swallowed.
H319      Causes serious eye irritation.
H331      Toxic if inhaled.
H335      May cause respiratory irritation.
H336      May cause drowsiness or dizziness.
H411      Toxic to aquatic life with long lasting effects.
### 1. Short title of Exposure Scenario: **Use as an intermediate**

<table>
<thead>
<tr>
<th>Main User Groups</th>
<th>SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sector of use</td>
<td>SU3, SU8, SU9: Industrial Manufacturing (all), Manufacture of bulk, large scale chemicals (including petroleum products), Manufacture of fine chemicals</td>
</tr>
<tr>
<td>Process category</td>
<td>PROC1: Use in closed process, no likelihood of exposure</td>
</tr>
<tr>
<td></td>
<td>PROC2: Use in closed, continuous process with occasional controlled exposure</td>
</tr>
<tr>
<td></td>
<td>PROC3: Use in closed batch process (synthesis or formulation)</td>
</tr>
<tr>
<td></td>
<td>PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises</td>
</tr>
<tr>
<td></td>
<td>: PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities</td>
</tr>
<tr>
<td></td>
<td>PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities</td>
</tr>
<tr>
<td></td>
<td>PROC15: Use as laboratory reagent</td>
</tr>
<tr>
<td>Environmental release category</td>
<td>ERC6a: Industrial use resulting in manufacture of another substance (use of intermediates)</td>
</tr>
<tr>
<td>Further information</td>
<td>Use as an isolated intermediate under strictly controlled conditions</td>
</tr>
</tbody>
</table>

**ERC6a: Industrial use resulting in manufacture of another substance (use of intermediates)**

### Technical conditions and measures / Organizational measures

| Remarks               | Not applicable |

### 2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC8b, PROC15: Use in closed process, no likelihood of exposure, Use in closed, continuous process with occasional controlled exposure, Use in closed batch process (synthesis or formulation), Use in batch and other process (synthesis) where opportunity for exposure arises, PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities, Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities, Use as laboratory reagent

| Remarks               | Not applicable |

**MSDS Number:** 100000013403 12/13
# Dimethyl Disulfide

## Material Safety Data Sheet

**Version 2.0**

**Revision Date:** 2011-03-02

### 3. Exposure estimation and reference to its source

**Remarks:** Not applicable

### 4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Not applicable