SAFETY DATA SHEET

Dimethyl Sulfide
Version 1.10
Revision Date 2020-04-28

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

Product information
Product Name: Dimethyl Sulfide
Material: 1108785, 1073702, 1073703, 1073704, 1103885, 1073705, 1077804, 1089246, 1101535, 1098710, 1084190, 1028766, 1024530, 1024531, 1024532, 1024533, 1024534, 1024535, 1024536
Use: Intermediate
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)-(11)5839431

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

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**Dimethyl Sulfide**

**Version 1.10**

**Revision Date 2020-04-28**

### Labeling

**Symbol(s):**

![Hazard Symbol](image)

**Signal Word:** Danger

**Hazard Statements:**

H225: Highly flammable liquid and vapor.

**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.
- 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.
- 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.

**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:**

- Dimethyl Sulfide Pure
- Methyl sulfide
- DMS
- Di-Methyl Sulfide

**Molecular formula:** C2H6S

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimethyl Sulfide</td>
<td>75-18-3</td>
<td>99.5</td>
</tr>
</tbody>
</table>

**SDS Number:** 100000013358
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**: -37°C (-35°F) estimated

**Autoignition temperature**: 220°C (428°F)

**Suitable extinguishing media**: Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical.

**Unsuitable extinguishing media**: High volume water jet.

**Specific hazards during firefighting**: 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, hot surfaces and sources of ignition.

**Hazardous decomposition products**: Carbon oxides. Sulfur oxides.
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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. 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 : 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.

Use : Intermediate

SECTION 8: Exposure controls/personal protection

Ingredients with workplace control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>Basis</th>
<th>Value</th>
<th>Control parameters</th>
<th>Note</th>
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<tr>
<td>Dimethyl Sulfide</td>
<td>ACGIH</td>
<td>TWA</td>
<td>10 ppm.</td>
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</table>

Engineering measures

Adequate ventilation to control airborne concentrations below the exposure guidelines/limits.

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Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the workplace 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: Flame retardant antistatic protective clothing. Workers should wear antistatic footwear.

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 : -37°C (-35°F) estimated
- Lower explosion limit : 2.2 %(V)
**Dimethyl Sulfide**

**Upper explosion limit** : 19.7 %(V)

**Oxidizing properties** : yes

**Autoignition temperature** : 220°C (428°F)

**Molecular formula** : C2H6S

**Molecular weight** : 62.14 g/mol

**pH** : Not applicable

**Pour point** : No data available

**Boiling point/boiling range** : 37°C (99°F)

**Vapor pressure** : 15.00 PSI
  - at 38°C (100°F)

**Relative density** : 0.85
  - at 15.6 °C (60.1 °F)

**Water solubility** : 7,280 MG/L
  - at 20°C (68°F)

**Partition coefficient: n-octanol/water** : log Pow: 0.84
  - at 20°C (68°F)

**Solubility in other solvents** : Medium: Water slightly soluble

**Viscosity, kinematic** : 0.285 cSt
  - at 20°C (68°F)

**Relative vapor density** : 2.1
  - (Air = 1.0)

**Evaporation rate** : No data available

**Percent volatile** : > 99 %

### SECTION 10: Stability and reactivity

**Reactivity** : Stable under recommended storage conditions.

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

**Possibility of hazardous reactions**

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## Hazardous reactions

- **Hazardous reactions**: Hazardous polymerization does not occur.
- **Further information**: No decomposition if stored and applied as directed.
- **Hazardous reactions**: Vapors may form explosive mixture with air.

## Conditions to avoid

- **Conditions to avoid**: Heat, flames and sparks.

## Materials to avoid

- **Materials to avoid**: May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

## Hazardous decomposition products

- **Hazardous decomposition products**: Carbon oxides
- **Hazardous decomposition products**: Sulfur oxides

## Other data

- **Other data**: No decomposition if stored and applied as directed.

## SECTION 11: Toxicological information

### Acute oral toxicity

- **Dimethyl Sulfide**: LD50: > 2,000 mg/kg
- **Species**: Rat
- **Method**: OECD Test Guideline 423

### Acute inhalation toxicity

- **Dimethyl Sulfide**: LC50: 102 mg/l
- **Exposure time**: 4 h
- **Species**: Rat
- **Sex**: male and female
- **Test atmosphere**: gas
- **Method**: OECD Test Guideline 403

### Acute dermal toxicity

- **Dimethyl Sulfide**: LD50: > 2,000 mg/kg
- **Method**: OECD Test Guideline 402

### Skin irritation

- **Dimethyl Sulfide**: No skin irritation

### Eye irritation

- **Dimethyl Sulfide**: May irritate eyes.

### Sensitization

- **Dimethyl Sulfide**: Did not cause sensitization on laboratory animals.

### Repeated dose toxicity

- **Dimethyl Sulfide**: Species: Rat, Male and female
Sex: Male and female
Application Route: Oral diet
Dose: 0, 2.5, 25, 250 mg/kg bw/day
Exposure time: 14 wk
Number of exposures: daily
NOEL: 250 mg/kg
Method: OECD Test Guideline 408
No adverse effects expected

Species: Rat, Male and female
Sex: Male and female
Application Route: inhalation (vapor)
Dose: 0, 0.310, 0.964, 2.783 mg/l
Exposure time: 13 wk (6 h)
Number of exposures: 7 d/wk
NOEL: 2.783 mg/l
Method: OECD Guideline 413
Information given is based on data obtained from similar substances.

Genotoxicity in vitro
Dimethyl Sulfide
Test Type: Ames test
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 Guideline 476
Result: negative

Genotoxicity in vivo
Dimethyl Sulfide
Test Type: In vivo micronucleus test
Species: Mouse
Cell type: Bone marrow
Route of Application: Oral
Dose: 1250, 2500, 5000 mg/kg
Method: OECD Test Guideline 474
Result: negative

Developmental Toxicity
Dimethyl Sulfide
Species: Rat
Application Route: oral gavage
Dose: 100, 500, 1000 mg/kg
Exposure time: GD 6 - 19
Number of exposures: daily
Test period: 20 d
Method: OECD Guideline 414
NOAEL Teratogenicity: 1,000 mg/kg
NOAEL Maternal: 1,000 mg/kg

Dimethyl Sulfide
Aspiration toxicity: May be harmful if swallowed and enters airways.
Dimethyl Sulfide

CMR effects

Dimethyl Sulfide: Carcinogenicity: Not available
                 Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects. In vivo tests did not show mutagenic effects.
                 Teratogenicity: Animal testing did not show any effects on fetal development.
                 Reproductive toxicity: Animal testing did not show any effects on fertility.

Dimethyl Sulfide
Further information: Solvents may degrease the skin.

SECTION 12: Ecological information

Toxicity to fish

Dimethyl Sulfide: LC50: 213 mg/l
                 Exposure time: 96 h
                 Species: Oncorhynchus mykiss (rainbow trout)
                 Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates

Dimethyl Sulfide: EC50: 29 mg/l
                 Exposure time: 48 h
                 Species: Daphnia magna (Water flea)
                 static test Method: OECD Test Guideline 202

Toxicity to algae

Dimethyl Sulfide: IC50: > 113.7 mg/l
                 Exposure time: 72 h
                 Species: Selenastrum capricornutum (algae)
                 Method: OECD Test Guideline 201

Biodegradability

Dimethyl Sulfide: aerobic
                 Result: Readily biodegradable.
                 77 %
                 Method: OECD Test Guideline 301

Bioaccumulation

Dimethyl Sulfide: No bioaccumulation is to be expected (log Pow <= 4).

Mobility

Dimethyl Sulfide: No data available
Dimethyl Sulfide

Results of PBT assessment
Dimethyl Sulfide : Non-classified PBT substance, Non-classified vPvB substance

Additional ecological information
Ecotoxicology Assessment

Short-term (acute) aquatic hazard
Dimethyl Sulfide : Harmful to aquatic life.

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)
UN1164, DIMETHYL SULFIDE, 3, II

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)
UN1164, DIMETHYL SULPHIDE, 3, II, (-37°C)

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)
UN1164, DIMETHYL SULPHIDE, 3, II

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

UN1164, DIMETHYL SULPHIDE, 3, II, (D/E)

**RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))**
UN1164, DIMETHYL SULPHIDE, 3, II

**ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)**
UN1164, DIMETHYL SULPHIDE, 3, II

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)

**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** : This material does not contain any components with a section 302 EHS TPQ.

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

**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).
Dimethyl Sulfide

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

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

: Dimethyl Sulfide - 75-18-3

US State Regulations

Pennsylvania Right To Know : Dimethyl Sulfide - 75-18-3

New Jersey Right To Know : Dimethyl Sulfide - 75-18-3

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.

Notification status

Europe REACH : 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 : 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 : 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
**Dimethyl Sulfide**

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**SECTION 16: Other information**

**NFPA Classification**
- Health Hazard: 1
- Fire Hazard: 3
- Reactivity Hazard: 0

**Further information**

**Legacy SDS Number** : 61250

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

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>American Conference of Government Industrial Hygienists</td>
</tr>
<tr>
<td>LD50</td>
<td>Lethal Dose 50%</td>
</tr>
<tr>
<td>AICS</td>
<td>Australia, Inventory of Chemical Substances</td>
</tr>
<tr>
<td>LOAEL</td>
<td>Lowest Observed Adverse Effect Level</td>
</tr>
<tr>
<td>DSL</td>
<td>Canada, Domestic Substances List</td>
</tr>
<tr>
<td>NFPA</td>
<td>National Fire Protection Agency</td>
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<tr>
<td>NDSL</td>
<td>Canada, Non-Domestic Substances List</td>
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<td>NIOSH</td>
<td>National Institute for Occupational Safety &amp; Health</td>
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<td>CNS</td>
<td>Central Nervous System</td>
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<td>NTP</td>
<td>National Toxicology Program</td>
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<td>CAS</td>
<td>Chemical Abstract Service</td>
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<td>NZIoC</td>
<td>New Zealand Inventory of Chemicals</td>
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<td>EOSCA Generic Exposure Scenario Tool</td>
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<td>Occupational Safety &amp; Health Administration</td>
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<td>EOSCA</td>
<td>European Oilfield Specialty Chemicals Association</td>
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<td>PEL</td>
<td>Permissible Exposure Limit</td>
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<td>European Inventory of Existing Chemical Substances</td>
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<td>Philippines Inventory of Commercial Chemical Substances</td>
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<td>MAK</td>
<td>Germany Maximum Concentration Values</td>
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<td>PRNT</td>
<td>Presumed Not Toxic</td>
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<td>GHS</td>
<td>Globally Harmonized System</td>
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<td>RCRA</td>
<td>Resource Conservation Recovery Act</td>
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<td>Inhibition Concentration 50%</td>
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<td>Superfund Amendments and Reauthorization Act.</td>
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<td>IARC</td>
<td>International Agency for Research on Cancer</td>
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<td>TLV</td>
<td>Threshold Limit Value</td>
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<td>Inventory of Existing Chemical Substances in China</td>
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