# Chemical Safety Data Sheet MSDS / SDS

# Diethylthiocarbamoyl chloride

Revision Date:2023-05-19 Revision Number:1

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

### **Product identifier**

| : Diethylthiocarbamoyl chloride  |  |  |  |
|--|--|--|--|
| : CB5154845  |  |  |  |
| : 88-11-9  |  |  |  |
| : 201-799-0  |  |  |  |
| : Diethylthiocarbamoyl chloride, diethylcarbamothioic chloride                       |  |  |  |
| Relevant identified uses of the substance or mixture and uses advised against        |  |  |  |
| : For R&D use only. Not for medicinal, household or other use.                       |  |  |  |
| : none   |  |  |  |
| Company Identification   |  |  |  |
| : Chemicalbook   |  |  |  |
| : Building 1, Huihuang International, Shangdi 10th Street, Haidian District, Beijing |  |  |  |
| : 400-158-6606   |  |  |  |
|  |  |  |  |

# SECTION 2: Hazards identification

### Classification of the substance or mixture

Skin corrosion, Sub-category 1B

Serious eye damage, Category 1

# Label elements

# Pictogram(s)

Signal word

Danger

#### Hazard statement(s)

H314 Causes severe skin burns and eye damage

#### Precautionary statement(s)

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P310 Immediately call a POISON CENTER or doctor/physician.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continuerinsing.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash ... thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...

#### Response

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P363 Wash contaminated clothing before reuse.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P316 Get emergency medical help immediately.

P321 Specific treatment (see ... on this label).

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P305+P354+P338 IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P317 Get medical help.

#### Storage

P405 Store locked up.

#### Disposal

P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

#### Other hazards

no data available

# SECTION 3: Composition/information on ingredients

#### Substance

| Product name | : Diethylthiocarbamoyl chloride                                |
|--------------|--|
| Synonyms     | : Diethylthiocarbamoyl chloride, diethylcarbamothioic chloride |
| CAS          | : 88-11-9  |
| EC number    | : 201-799-0  |
| MF           | : C5H10CINS  |
| MW           | : 151.66   |
|              |  |

# SECTION 4: First aid measures

### Description of first aid measures

#### lf inhaled

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately.

Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

#### Following skin contact

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

#### Following eye contact

Rinse with pure water for at least 15 minutes. Consult a doctor.

#### Following ingestion

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.

### Most important symptoms and effects, both acute and delayed

no data available

### Indication of any immediate medical attention and special treatment needed

no data available

# **SECTION 5: Firefighting measures**

### **Extinguishing media**

Use dry chemical, carbon dioxide or alcohol-resistant foam.

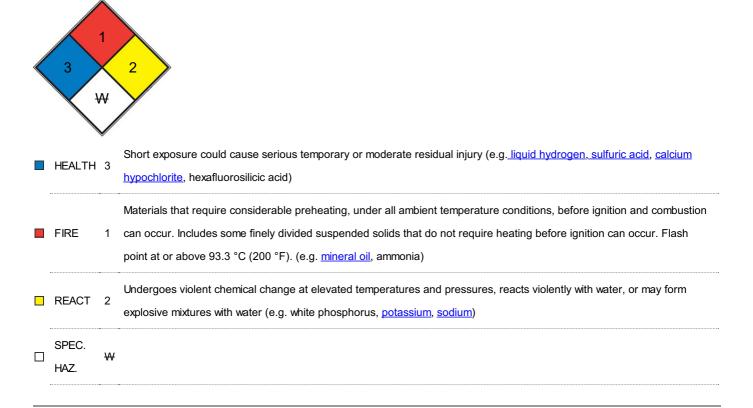
### **Specific Hazards Arising from the Chemical**

no data available

# Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### **NFPA 704**



# SECTION 6: Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

#### **Environmental precautions**

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

#### Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use sparkproof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

# SECTION 7: Handling and storage

#### Precautions for safe handling

Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

#### Conditions for safe storage, including any incompatibilities

Store the container tightly closed in a dry, cool and well-ventilated place. Store apart from foodstuff containers or incompatible materials.

# SECTION 8: Exposure controls/personal protection

#### **Control parameters**

#### **Occupational Exposure limit values**

no data available

Biological limit values

no data available

#### **Exposure controls**

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the riskelimination area.

#### Individual protection measures

#### Eye/face protection

Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US).

#### Skin protection

Wear fire/flame resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands. The

selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

#### **Respiratory protection**

If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator.

no data available

# SECTION 9: Physical and chemical properties

# Information on basic physicochemical properties

| Odourno data availableMelting point freezing point45-50°CBoiling point or initial boiling point and113°C/10mmHg(lit.)boiling rangeno data availableFlammabilityno data availableLower and upper explosionno data availablelimit/flammability limit113°CFlash point113°CAuto-ignition temperatureno data availableDecomposition temperatureno data availablepHno data availableKinematic viscosityno data availableSolubilityno data availablePartition coefficient n-octanol/waterno data availableVapour pressureno data availableDensity and/or relative density1.125 g/cm3Relative vapour densityno data available       | Physical state                             | solid              |
|---|--|--------------------|
| Melting point/freezing point45-50°CBoiling point or initial boiling point and<br>boiling range113°C/10mmHg(lit.)Flammabilityno data availableLower and upper explosionno data availableLower and upper explosionno data availableImit/flammability limit113°CFlash point113°CAuto-ignition temperatureno data availableDecomposition temperatureno data availablepHno data availableKinematic viscosityno data availableSolubilityno data availablePartition coefficient n-octanol/waterno data availableVapour pressureno data availableDensity and/or relative density1.125 g/cm3Relative vapour densityno data available | Colour                                     | no data available  |
| Boiling point or initial boiling point and113°C/10mmHg(lit.)boiling rangeno data availableFlammabilityno data availableLower and upper explosionno data availablelimit/flammability limit113°CFlash point113°CAuto-ignition temperatureno data availablepHno data availableSolubilityno data availableSolubilityno data availablePartition coefficient n-octanol/waterno data availableVapour pressureno data availableDensity and/or relative density1.125 g/cm3Relation coefficient of the static valuable1.125 g/cm3   | Odour                                      | no data available  |
| boiling range     Flammability   no data available     Lower and upper explosion   no data available     limit/flammability limit   113°C     Flash point   113°C     Auto-ignition temperature   no data available     Decomposition temperature   no data available     pH   no data available     Kinematic viscosity   no data available     Solubility   no data available     Partition coefficient n-octanol/water   no data available     Vapour pressure   no data available     Density and/or relative density   1.125 g/cm3     Relative vapour density   no data available                                     | Melting point/freezing point               | 45-50°C            |
| Flammabilityno data availableLower and upper explosionno data availablelimit/flammability limit   | Boiling point or initial boiling point and | 113°C/10mmHg(lit.) |
| Lower and upper explosionno data availablelimit/flammability limit113°CFlash point113°CAuto-ignition temperatureno data availableDecomposition temperatureno data availablepHno data availableKinematic viscosityno data availableSolubilityno data availablePartition coefficient n-octanol/waterno data availableNapour pressureno data availableDensity and/or relative density1.125 g/cm3Relative vapour densityno data available   | boiling range                              |                    |
| Iimit/flammability limitFlash point113°CAuto-ignition temperatureno data availableDecomposition temperatureno data availablepHno data availableKinematic viscosityno data availableSolubilityno data availablePartition coefficient n-octanol/waterno data availableVapour pressureno data availableDensity and/or relative density1.125 g/cm3Relative vapour densityno data available  | Flammability                               | no data available  |
| Flash point113°CAuto-ignition temperatureno data availableDecomposition temperatureno data availablepHno data availableno data availableno data availableKinematic viscosityno data availableSolubilityno data availablePartition coefficient n-octanol/waterno data availableVapour pressureno data availableDensity and/or relative density1.125 g/cm3Relative vapour densityno data available  | Lower and upper explosion                  | no data available  |
| Auto-ignition temperatureno data availableDecomposition temperatureno data availablepHno data availableKinematic viscosityno data availableSolubilityno data availablePartition coefficient n-octanol/waterno data availableVapour pressureno data availableDensity and/or relative density1.125 g/cm3Relative vapour densityno data available  | limit/flammability limit                   |                    |
| Decomposition temperatureno data availablepHno data availableKinematic viscosityno data availableSolubilityno data availablePartition coefficient n-octanol/waterno data availableVapour pressureno data availableDensity and/or relative density1.125 g/cm3Relative vapour densityno data available  | Flash point                                | 113°C              |
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| Kinematic viscosityno data availableSolubilityno data availablePartition coefficient n-octanol/waterno data availableVapour pressureno data availableDensity and/or relative density1.125 g/cm3Relative vapour densityno data available   | Decomposition temperature                  | no data available  |
| Solubilityno data availablePartition coefficient n-octanol/waterno data availableVapour pressureno data availableDensity and/or relative density1.125 g/cm3Relative vapour densityno data available   | рН   | no data available  |
| Partition coefficient n-octanol/water   no data available     Vapour pressure   no data available     Density and/or relative density   1.125 g/cm3     Relative vapour density   no data available   | Kinematic viscosity                        | no data available  |
| Vapour pressure no data available   Density and/or relative density 1.125 g/cm3   Relative vapour density no data available   | Solubility                                 | no data available  |
| Density and/or relative density   1.125 g/cm3     Relative vapour density   no data available   | Partition coefficient n-octanol/water      | no data available  |
| Relative vapour density no data available   | Vapour pressure                            | no data available  |
|   | Density and/or relative density            | 1.125 g/cm3        |
| Particle characteristics no data available  | Relative vapour density                    | no data available  |
|   | Particle characteristics                   | no data available  |

# SECTION 10: Stability and reactivity

# Reactivity

no data available

# **Chemical stability**

no data available

# Possibility of hazardous reactions

no data available

### Conditions to avoid

no data available

# Incompatible materials

### Hazardous decomposition products

no data available

# SECTION 11: Toxicological information

### Acute toxicity

- Oral: no data available
- Inhalation: no data available
- Dermal: no data available

#### Skin corrosion/irritation

no data available

#### Serious eye damage/irritation

no data available

#### Respiratory or skin sensitization

no data available

# Germ cell mutagenicity

no data available

### Carcinogenicity

no data available

#### **Reproductive toxicity**

no data available

### STOT-single exposure

no data available

#### STOT-repeated exposure

no data available

#### Aspiration hazard

no data available

# SECTION 12: Ecological information

### Toxicity

Toxicity to fish: no data available

Toxicity to daphnia and other aquatic invertebrates: no data available

Toxicity to algae: no data available

Toxicity to microorganisms: no data available

#### Persistence and degradability

no data available

#### Bioaccumulative potential

no data available

### Mobility in soil

no data available

#### Other adverse effects

no data available

# **SECTION 13: Disposal considerations**

### **Disposal methods**

#### Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

#### Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

# **SECTION 14: Transport information**

# **UN Number**

ADR/RID: UN3261 (For reference only, please check.) IMDG: UN3261 (For reference only, please check.) IATA: UN3261 (For reference only, please check.)

#### **UN Proper Shipping Name**

ADR/RID: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (For reference only, please check.) IMDG: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (For reference only, please check.) IATA: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (For reference only, please check.)

### Transport hazard class(es)

ADR/RID: 8 (For reference only, please check.) IMDG: 8 (For reference only, please check.) IATA: 8 (For reference only, please check.)

# Packing group, if applicable

ADR/RID: I (For reference only, please check.) IMDG: I (For reference only, please check.) IATA: I (For reference only, please check.)

### **Environmental hazards**

ADR/RID: No IMDG: No

IATA: No

# Special precautions for user

no data available

### Transport in bulk according to IMO instruments

no data available

# SECTION 15: Regulatory information

# Safety, health and environmental regulations specific for the product in question

European Inventory of Existing Commercial Chemical Substances (EINECS)

Listed.

# EC Inventory

Listed.

United States Toxic Substances Control Act (TSCA) Inventory

Not Listed.

### China Catalog of Hazardous chemicals 2015

Not Listed.

New Zealand Inventory of Chemicals (NZloC)

Not Listed.

PICCS

Not Listed.

Vietnam National Chemical Inventory

Not Listed.

IECSC

Not Listed.

Korea Existing Chemicals List (KECL)

Not Listed.

# **SECTION 16: Other information**

Abbreviations and acronyms

#### CAS: Chemical Abstracts Service

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulation concerning the International Carriage of Dangerous Goods by Rail

- IMDG: International Maritime Dangerous Goods
- IATA: International Air Transportation Association
- TWA: Time Weighted Average
- STEL: Short term exposure limit
- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- EC50: Effective Concentration 50%

#### References

IPCS - The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home

HSDB - Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm

IARC - International Agency for Research on Cancer, website: http://www.iarc.fr/

eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website: http://www.echemportal.org/echemportal/index?

pageID=0&request\_locale=en

CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple

ChemlDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp

ERG - Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg

Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp

ECHA - European Chemicals Agency, website: https://echa.europa.eu/

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