

SAFETY DATA SHEET

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SECTION 1. IDENTIFICATION

Product Identifier: Dimethylindium Chloride

Product Code: IN-OMX-018-XX

CAS Number: 16070-92-1

Relevant identified uses of the substance: Scientific research and development

Supplier details:

American Elements
10884 Weyburn Ave.
Los Angeles, CA 90024
Tel: +1 310-208-0551
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Emergency telephone number:
+1 800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]:

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



Signal word: Danger

hazard statements for physical hazards

H228 Flammable solid.

H261 In contact with water releases flammable gases.

hazard statements for health hazards

H315 Causes skin irritation.

Supplemental hazard information

EUH014 Reacts violently with water.

Precautionary Statements Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P222 Do not allow contact with air.

P223 Do not allow contact with water.

P231 + P232 Handle and store contents under inert gas/.... Protect from moisture.

P233 Keep container tightly closed.

P242 Use non-sparking tools.

Precautionary Statements Response

P370 + P378 In case of fire: Use sand, extinguishing powder or alcohol-resistant foam to extinguish.

2.3. Other hazards

No data available

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Description:

Molecular formula: C_2H_6InCl

Additional information:

Molecular weight: 180,34 g/mol

SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Following inhalation:

Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms:

Call a doctor.

In case of skin contact:

Wash with plenty of soap and water. Call a doctor.

After eye contact:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion:

Do NOT induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps. Rinse mouth thoroughly with water. Call a physician in any case!

4.2. Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3. Indication of any immediate medical attention and special treatment needed

First Aid, decontamination, treatment of symptoms.

SECTION 5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media:

Carbon dioxide (CO_2); Extinguishing powder; Dry sand; alcohol resistant foam

Unsuitable extinguishing media:

Water

5.2. Special hazards arising from the substance or mixture

Substances or mixtures which, in contact with water, emit flammable gases, Category 2

Hazardous combustion products:

Carbon monoxide; Carbon dioxide; metallic oxides containing heavy metals (Indium)

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

5.4. Additional information

No further relevant information available.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Do not breathe gas/fumes/vapour/spray. Provide adequate ventilation. Remove all sources of ignition. Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Emergency procedures:

Remove persons to safety.

6.1.2. For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For cleaning up:

Use approved industrial vacuum cleaner for removal. Take up carefully when dry. Take up mechanically, placing in appropriate containers for disposal. Do not rinse down with water.

6.4. Reference to other sections

Personal protection equipment: see section 8

6.5. Additional information

No further relevant information available.

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Do not breathe gas/fumes/vapour/spray. Handle and store contents under inert gas/.... Protect from moisture.

Fire prevent measures:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges.

Measures to prevent aerosol and dust generation:

Provide adequate ventilation as well as local exhaust at critical locations.

Environmental precautions:

Do not allow to enter into surface water or drains.

Advices on general occupational hygiene

Wash hands and face before breaks and after work and take a shower if necessary.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Store in a cool dry place. Handle and store contents under inert gas/....

Requirements for storage rooms and vessels:

Ensure adequate ventilation of the storage area. Keep container tightly closed.

Storage class: 4.1B – Flammable solids

7.3. Specific end use(s)

No data available

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

No data available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Wash hands and face before breaks and after work and take a shower if necessary.

8.2.2. Personal protection equipment

Eye/face protection:

Eye glasses with side protection

Face protection shield (min. 20cm)

DIN EN 166

Skin protection:

Tested protective gloves must be worn

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material: >0,7mm

EN ISO 374

Wear anti-static footwear and clothing Wear fire resistant or flame retardant clothing.

Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

Suitable respiratory protection apparatus: Combination filtering device (EN 14387)

Filter type: ABEK-P2

8.2.3. Environmental exposure controls

Cover drains.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance

Physical state: solid

Colour: white

Odour: sweetish

Odour threshold: No data available

pH No data available

Melting point 222 – 225 °C literature value

Freezing point No data available

Initial boiling point and boiling range

100 – 110 °C pressure: 1

Decomposition temperature No data available

Flash point ≈ 40 °C Experimental data

Evaporation rate No data available

Auto-ignition temperature No data available

Upper/lower flammability or explosive limits

No data available

Vapour pressure No data available

Vapour density No data available

Density ≈ 1.5 g/cm³ 25 °C

Bulk density No data available

Water solubility not applicable Reacts violently with water.

Partition coefficient: n-octanol/water
No data available
Dynamic viscosity No data available
Kinematic viscosity No data available

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity
No data available
10.2. Chemical stability
The product is stable under storage at normal ambient temperatures.
10.3. Possibility of hazardous reactions
Reacts with water in an unusual or dangerous manner
10.4. Conditions to avoid Humidity; air
10.5. Incompatible materials
Oxidizing agent; Water; Alcohols; Acids
10.6. Hazardous decomposition products
Decomposition products in case of fire: see section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects
Acute oral toxicity:
No data available
Acute dermal toxicity:
No data available
Acute inhalation toxicity:
No data available
Skin corrosion/irritation:
No data available
Serious eye damage/irritation:
No data available
Respiratory or skin sensitisation:
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
Additional information:
No further relevant information available.

SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity

Aquatic toxicity:

No data available

Sediment toxicity:

No data available

Terrestrial toxicity:

No data available

Effects in sewage plants:

No data available

Assessment/classification:

No data available

Additional ecotoxicological information:

No further relevant information available.

12.2. Persistence and degradability

Abiotic degradation:

No data available

Biodegradation:

No data available

Additional information:

No further relevant information available.

12.3. Bioaccumulative potential

Bioconcentration factor (BCF):

No data available

Partition coefficient: n-octanol/water:

No data available

Accumulation / Evaluation:

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

No further relevant information available.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Contact Dockweiler Chemicals GmbH representative concerning disposal of unused chemicals and refurbishment of re-usable steel cylinders (bubblers).

SECTION 14. TRANSPORT INFORMATION

14.1. UN-No.

UN 3396

14.2. UN proper shipping name

ORGANOMETALLIC SUBSTANCE, SOLID, WATER-REACTIVE, FLAMMABLE
(Dimethylindium chloride)

4.3, PG II

SECTION 15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU legislation

Authorisations:

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

15.1.2. National regulations

Source:

15.2. Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.