# SAFETY DATA SHEET

**Date Accessed:** 03/28/2024
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## SECTION 1. IDENTIFICATION

**Product Name:** Dimethylindium Chloride

**Product Number:** All applicable American Elements product codes, e.g. IN-OMX-018-XX

**CAS #:** 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
Fax: +1 310-208-0351

**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

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## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances
Description:
Molecular formula: C2H6InCl
Additional information:
Molecular weight: 180,34 g/mol

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## 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.

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## 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.

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## 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.

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## 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 exhaustion 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

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## 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.

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## 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/cm$^3$ 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

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## 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.

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## 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.

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## 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.

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## 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).

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## 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.

## SECTION 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.