



Dimethylindium Chloride		Pricing >
Linear Formula	$(\text{CH}_3)_2\text{InCl}$	
Pubchem CID	10932040	
MDL Number	N/A	
EC No.	N/A	
IUPAC Name	chloro(dimethyl)indigane	
SMILES	<chem>C[In](C)Cl</chem>	
Inchl Identifier	InChI=1S/2CH3.ClH.In/h2*1H3;1H;/q;;;+1/p-1	
Inchl Key	FOJZPLNOZUNMJO-UHFFFAOYSA-M	
Signal Word	Danger	
Hazard Statements	H228-H261-H315	
Hazard Codes	F, Xi	
Precautionary Statements	P210-P222-P223-P231+P232-P233-P242-P370+P378	
Flash Point	40 °C (lit.)	
Risk Codes	N/A	
Safety Statements	N/A	
Transport Information	UN 3396 4.3/PG II	
GHS Pictograms	GHS02 Flame  GHS07 Exclamation Point 	

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SAFETY DATA SHEET

Date Accessed: 04/29/2024

Date Revised: 01/15/2022

SECTION 1. IDENTIFICATION

Product Identifiers: All applicable American Elements product codes for 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:

Domestic, North America +1 800-424-9300

International +1 703-527-3887

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: C₂H₆InCl

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 (CO₂); 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

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

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 \approx 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 \approx 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.
