

1 - Product and Company Information

ProductName DICYCLOHEXYLZINC, 0.4 M SOLUTION IN DIETHYL ETHER

2 - Hazards Identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT

Reacts violently with water. May form explosive peroxides. Harmful if swallowed. Causes burns. Vapors may cause drowsiness and dizziness.

3 - Composition/Information on Ingredients

Product Name	CAS #	EC no	Annex I
DICYCLOHEXYLZINC, 0.4M SOLUTION IN DIETHYL ETHER	15658-08-9	None	None

Ingredient Name	Percent	CAS #	EC no	Annex I
DIETHYL ETHER, INHIBITOR 88	60-29-7	200-467-2		None

FREE
Symbols: F+Xn
R-Phrases: 12-19-22-66-67

Extremely flammable. May form explosive peroxides. Harmful if swallowed. Repeated exposure may cause skin dryness or cracking. Vapors may cause drowsiness and dizziness.

Formula C12H22Zn

4 - First Aid Measures

AFTER INHALATION

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

AFTER SKIN CONTACT

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

AFTER EYE CONTACT

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

AFTER INGESTION

If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately. Do not induce vomiting.

5 - Fire Fighting Measures

EXTINGUISHING MEDIA

Suitable: Dry chemical powder.
Unsuitable: Do not use water.

SPECIAL RISKS

Specific Hazard(s): Flammable liquid. Emits toxic fumes under fire conditions.
Explosion Hazards: Vapor may travel considerable distance to source of ignition and flash back. Container explosion may occur under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6 - Accidental Release Measures

PERSONAL PRECAUTION PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL

Evacuate area. Shut off all sources of ignition. Use nonsparking tools.

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP

Cover with dry-lime, sand, or soda ash. Place in covered containers using non-sparking tools and transport outdoors. Ventilate area and wash spill site after material pickup is complete.

7 - Handling and Storage

HANDLING

Directions for Safe Handling: Do not breathe vapor. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

STORAGE

Conditions of Storage: Keep tightly closed. Keep away from heat, sparks, and open flame. Store in a cool dry place.

SPECIAL REQUIREMENTS: Handle and store under inert gas. Air, light, and moisture sensitive. Heat sensitive.

8 - Exposure Controls / Personal Protection

ENGINEERING CONTROLS

Safety shower and eye bath. Use nonsparking tools. Use only in a chemical fume hood.

GENERAL HYGIENE MEASURES

Wash contaminated clothing before reuse. Discard contaminated shoes. Wash thoroughly after handling.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

Hand Protection: Compatible chemical-resistant gloves.

Eye Protection: Chemical safety goggles.

Special Protective Measures: Faceshield (8-inch minimum).

9 - Physical and Chemical Properties

Appearance	Physical State: Liquid	At Temperature or Pressure
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pH	N/A
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BP/BP Range	N/A
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MP/MP Range	N/A
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Flash Point	- 30.0 °C
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Flammability	N/A
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Autoignition Temp	N/A
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Oxidizing Properties	N/A
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Explosive Properties	N/A
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Explosion Limits	N/A
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Vapor Pressure	N/A
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SG/Density	0.756 g/cm3
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Partition Coefficient	N/A
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Viscosity	N/A
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Vapor Density	N/A
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Saturated Vapor Conc.	N/A
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Evaporation Rate	N/A
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Bulk Density	N/A
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Decomposition Temp.	N/A
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Solvent Content	N/A
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Water Content	N/A
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Surface Tension	N/A
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Conductivity	N/A
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Miscellaneous Data	N/A
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Solubility	N/A
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10 - Stability and Reactivity

STABILITY

Stable: Stable.

Conditions of Instability: May form peroxides of unknown stability.

Conditions to Avoid: Light. Heat. Air. Moisture.

Materials to Avoid: Oxidizing agents, Strong acids.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Nature of decomposition products not known.

HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

11 - Toxicological Information

SIGNS AND SYMPTOMS OF EXPOSURE

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Inhalation may result in spasm, inflammation, and edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema.

Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. Drowsiness, dizziness of breath. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

ROUTE OF EXPOSURE

Skin Contact: Causes burns.

Eye Contact: Causes burns if absorbed through the skin.

Inhalation: Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. May be harmful if inhaled.

Ingestion: Harmful if swallowed.

TARGET ORGAN INFORMATION

Central Nervous System. G.I. System. Skeletal muscle. Kidneys. Nerves. Liver.

12 - Ecological Information

No data available.

13 - Disposal Considerations

SUBSTANCE DISPOSAL

Contact a licensed professional waste disposal service to after this material. Scrub in a chemical incinerator equipped material is highly flammable. Observe all federal, state, local environmental regulations.

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14 - Transport Information

RID/ADR: 2924

UN#: 2924

Class: 3

PG: I

Subrisk: 8

Proper Shipping Name: FLAMMABLE LIQUID, CORROSIVE.

Proper Shipping Name: FLAMMABLE LIQUID, CORROSIVE, n.o.s.

Severe Marine Pollutant: No

Technical Name: Required

IATA UN#: 2924

Class: 3

PG: I

Subrisk: 8

Proper Shipping Name: Flammable liquid, corrosive, n.o.s.

Technical Name: Required

15 - Regulatory Information

CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

EXHAUSTIVE: Flammable. Corrosive.

R-Phrases: 14-19-22-34-46-67

Reacts violently with water. May form explosive peroxides.

Harmful if swallowed. Causes burns. Vapors may cause drowsiness and dizziness.

S-Phrases: 26-36/37/39-43-45

In case of contact with eyes, rinse immediately with plenty of water and medical advice. Wear suitable protective clothing and gloves and medical advice. In case of fire, never use water. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

COUNTRY-SPECIFIC INFORMATION

Germany

WGK: 1

Self-Classification

16 - Other Information

For R&D use only. Not for drug, household or other uses.

WARRANTY: The 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. Lookchem shall not be held liable for damage or loss resulting from handling or from contact with the product. Lookchem shall see reverse side of invoice or packing slip for additional terms and conditions of sale.

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