

Material Safety Data Sheet Diethylzinc, 15 wt.% solution in hexane

MSDS# 46190

| | Section 1 - Chemical Product and Company Identification |
|------------------|---|
| MSDS Name: | Diethylzinc, 15 wt.% solution in hexane |
| Catalog Numbers: | AC205510000, AC205510150, AC205511000, AC205511001, AC205518000 |
| Synonyms: | Zinc ethide in hexane. |
| | Acros Organics BVBA |

Company Identification:

Company Identification: (USA)

 For information in the US, call:
 800-ACROS-01

 For information in Europe, call:
 +32 14 57 52 11

 Emergency Number, Europe:
 +32 14 57 52 99

 Emergency Number US:
 201-796-7100

 CHEMTREC Phone Number, US:
 800-424-9300

 CHEMTREC Phone Number, Europe:
 703-527-3887

Section 2 - Composition, Information on Ingredients

Risk Phrases: 11 38 48/20 51/53 62 65 67

| CAS#: | 110-54-3 |
|-----------------|-----------|
| Chemical Name: | Hexane |
| º⁄o: | 85 |
| EINECS#: | 203-777-6 |
| Hazard Symbols: | F XN N |
| | |

| Risk Phrases: 14 17 34 50/53 | |
|------------------------------|-------------|
| CAS#: | 557-20-0 |
| Chemical Name: | Diethylzinc |
| %: | 15 |
| EINECS#: | 209-161-3 |
| Hazard Symbols: | FCN |
| | |

Text for R-phrases: see Section 16 Hazard Symbols:

Hazard Symbols:



Risk Phrases:

XN F C



11 14 17 34 48/20 Section 3 - Hazards Identification EMERGENCY OVERVIEW



Janssen Pharmaceuticalaan 3a

2440 Geel, Belgium Acros Organics

One Reagent Lane Fair Lawn, NJ 07410

Danger! Harmful if inhaled. Causes eye and skin burns. Causes digestive and respiratory tract burns. Pyrophoric. Spontaneously flammable in air. Reacts violently with water. Extremely flammable liquid and vapor. Vapor may cause flash fire. Target Organs: Nervous system.

| | | inc. Target | Organs. Nervous system. | |
|---|----------------------|---|------------------------------------|---|
| Potential Health | Effects | | | |
| Eye: | Cause | es eye burns. | | |
| Skin: | Cause | s skin burns. | | |
| Ingestion: | Cause | s gastrointestinal tract but | rns. | |
| Inhalation: | Cause | s chemical burns to the re | espiratory tract. | |
| Chronic: | None | | | |
| | | Section | 4 - First Aid Measures | |
| EVes: | Immediately eyelids. | flush eyes with plenty of | water for at least 15 minute | es, occasionally lifting the upper and lower |
| NKIN ² | | with plenty of water for at l ng before reuse. Destroy | | oving contaminated clothing and shoes. |
| | | • | | d drink 2-4 cupfuls of milk or water. |
| e | Remove from | n exposure and move to f | resh air immediately. | |
| Notes to Physician: | | | | |
| | | Section 5 | - Fire Fighting Measures | |
| General Information: | or equivale | ire, wear a self-contained ont, and full protective get | breathing apparatus in pre | ssure-demand, MSHA/NIOSH (approved quid and vapor. May re-ignite after fire is ninated with water. |
| Extinguishing Media: | gases. Coo | l containers with flooding | | th the material and release corrosive/toxic rell after fire is out. DO NOT USE ash, lime or sand. |
| Autoignition Temperature | | ble | | |
| | | (-40.00 deg F) | | |
| Explosion Limits Lower | ^{S:} N/A | | | |
| Explosion Limits Upper | ^{5:} N/A | | | |
| NFPA Rating | : health: 1; fl | ammability: 4; instability: | 0; | |
| C | · · · | | ccidental Release Measur | es |
| General Information: | Use proper p | | nent as indicated in Section | |
| Spills/Leaks: | spills immed | | ons in the Protective Equip | hen place in suitable container. Clean up ment section. Use a spark-proof tool. Do |
| | | Section 7 | - Handling and Storage | |
| Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep Handling: container tightly closed. Avoid ingestion and inhalation. Do not allow contact with water. Avoid mechanical shock and friction. Discard contaminated shoes. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames. | | | | |
| Storage: Keep away from sources of ignition. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from water. Flammables-area. Keep containers tightly closed. | | | | |
| - substa | nces. Keep a | 2 | 1 | 0 2 |
| + | + | - | ure Controls, Personal Pro | |
| Chemical | Name | ACGIH | NIOSH | OSHA - Final PELs |
| Hexane | | 50 ppm; Skin - | 50 ppm TWA; 180 mg/m3 TWA 1100 | 500 ppm TWA; |

| | | contribution to overall exposure by the cutaneous r oute | LEL) | | |
|------------|-------------|--|-----------------------|------------------|----------------|
| + | Diethylzinc | none listed | none listed + | none listed | + |

OSHA Vacated PELs: Hexane: 50 ppm TWA; 180 mg/m3 TWA Diethylzinc: None listed Engineering Controls:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels.

Exposure Limits

Personal Protective Equipment

Eyes: Wear safety glasses and chemical goggles if splashing is possible.

Skin: Wear appropriate protective gloves and clothing to prevent skin exposure.

Clothing: Wear appropriate protective clothing to minimize contact with skin.

Respirators: Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

Section 9 - Physical and Chemical Properties

Physical State: Clear liquid Color: colorless Odor: garlic-like odor pH: Not available Vapor Pressure: Not available Vapor Density: Not available Evaporation Rate: Not available Viscosity: .682 cP@20C(DZ) Boiling Point: 117 deg C @ 760.00mm Hg(DZ) (242.60°F) Freezing/Melting Point: -28 deg C (-18.40°F) Decomposition Temperature: Not available Solubility in water: reacts violently with water(DZ) Specific Gravity/Density: .7260g/cm3(DZ) Molecular Formula: C4H10Zn Molecular Weight: 123.50(DZ) Section 10 - Stability and Reactivity Chemical Stability: Stable under normal temperatures and pressures. Incompatible materials, strong oxidants, exposure to moist air or water. Conditions to Avoid: Water, oxidizing agents, acids, bases, alcohols, hydrazine, oxygen, chlorine. Incompatibilities with Other Materials Hazardous Decomposition Products Carbon monoxide, carbon monoxide, carbon dioxide. Hazardous Polymerization Has not been reported. Section 11 - Toxicological Information CAS# 110-54-3: MN9275000 RTECS#: CAS# 557-20-0: None listed RTECS: CAS# 110-54-3: Draize test, rabbit, eye: 10 mg Mild; Inhalation, mouse: LC50 = 150000 mg/m3/2H; Inhalation, rat: LC50 = 48000 ppm/4H; Inhalation, rat: $LC50 = 627000 \text{ mg/m}^3/3\text{M}$; LD50/LC50: Oral, rat: LD50 = 25 gm/kg; RTECS: CAS# 557-20-0:.

| Carcinogenicity: | Hexane - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65. Diethylzinc - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65. |
|--|--|
| Other: | See actual entry in RTECS for complete information. |
| | Section 12 - Ecological Information |
| Ecotoxicity: | Not available |
| 5 | Section 13 - Disposal Considerations |
| Dispose of in a m | anner consistent with federal, state, and local regulations. |
| 1 | Section 14 - Transport Information |
| US DOT Shipping Name: OF Hazard Class: 4.3 UN Number: UN33 Packing Group: I Canada TDG Shipping Name: Not Hazard Class: UN Number: Packing Group: | |
| USA RQ: CAS# | 110-54-3: 5000 lb final RQ; 2270 kg final RQ |
| | Section 15 - Regulatory Information |
| | tional Regulations |
| European L | abeling in Accordance with EC Directives |
| | d Symbols: XN F C |
| Risk P | hrases: |
| | 11 Highly flammable. |
| | 14 Reacts violently with water. |
| | 17 Spontaneously flammable in air. |
| | 34 Causes burns. |
| | 48/20 Harmful : danger of serious damage to health by prolonged exposure through inhalation. |
| 5 | Phrases: |
| | 9 Keep container in a well-ventilated place. |
| | 16 Keep away from sources of ignition - No smoking. |
| | 24/25 Avoid contact with skin and eyes. |
| S | 43A In case of fire, use dry chemical (never use water).45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where ossible). |
| WGK (Wat | er Danger/Protection) |
| | 110-54-3:1 |
| | 557-20-0: Not available |
| Canada | |
| CAS# | 110-54-3 is listed on Canada's DSL List |
| | 557-20-0 is listed on Canada's NDSL List |
| | ian WHMIS Classifications: B2, E |
| This pr and the | roduct has been classified in accordance with the hazard criteria of the Controlled Products Regulations e MSDS contains all of the information required by those regulations. 110-54-3 is listed on Canada's Ingredient Disclosure List |
| | 557-20-0 is not listed on Canada's Ingredient Disclosure List. |

TSCA

CAS# 110-54-3 is listed on the TSCA Inventory. CAS# 557-20-0 is listed on the TSCA Inventory.

Section 16 - Other Information MSDS Creation Date: 6/03/1999 Revision #7 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.
