



Material Safety Data Sheet

Ethylaluminium sesquichloride, 0.4M solution in hexane

MSDS# 09927

Section 1 - Chemical Product and Company Identification

MSDS Name: Ethylaluminium sesquichloride, 0.4M solution in hexane
Catalog Numbers: AC185460000, AC185461000, AC185468000
Synonyms: EASC

Company Identification: Acros Organics BVBA
Janssen Pharmaceuticaaan 3a
2440 Geel, Belgium

Company Identification: (USA) Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

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
%: 85
EINECS#: 203-777-6
Hazard Symbols: F XN N

Risk Phrases:

CAS#: 12075-68-2
Chemical Name: Ethyl aluminum sesquichloride
%: 15
EINECS#: 235-137-7
Hazard Symbols:

Text for R-phrases: see Section 16

Hazard Symbols:



Risk Phrases:

F C N



11 14/15 35 48/20 51/53 62 65 67



Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Not available Target Organs: Respiratory system, eyes, skin.

Potential Health Effects

Eye: Causes eye burns.

Skin: Causes skin burns.

Ingestion: Causes gastrointestinal tract burns. May cause lung damage.

Inhalation: Harmful if inhaled. Causes chemical burns to the respiratory tract. Inhalation of vapors may cause drowsiness and dizziness.

Chronic: May impair fertility.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Do not induce vomiting. Get medical aid immediately.

Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Will burn if involved in a fire. Water reactive. Material will react with water and may release a flammable and/or toxic gas. Flammable liquid and vapor.

Extinguishing Media: Do NOT use halogenated agents. Use dry sand, dry chemical, soda ash or lime. DO NOT USE WATER OR FOAM.

Autoignition Temperature: Not available

Flash Point: Not available

Explosion Limits: Lower: Not available

Explosion Limits: Upper: Not available

NFPA Rating: 3 - flammability, 0 - instability

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Remove all sources of ignition. Use a spark-proof tool. Do not expose spill to water.

Section 7 - Handling and Storage

Handling: Do not allow water to get into the container because of violent reaction. Use spark-proof tools and explosion proof equipment. Do not breathe dust, mist, or vapor. Do not get in eyes, on skin, or on clothing. Take precautionary measures against static discharges. Use and store under nitrogen. Do not allow contact with water. Use only in a chemical fume hood.

Storage: Keep away from sources of ignition. Store in a cool, dry place. Store in a tightly closed container. Flammables-area. Corrosives area. Water free area. Store protected from moisture. Store under nitrogen.

Section 8 - Exposure Controls, Personal Protection

| Chemical Name | ACGIH | NIOSH | OSHA - Final PELs |
|---------------|--|---|-----------------------------|
| Hexane | 50 ppm; Skin - potential significant contribution to overall exposure by the cutaneous | 50 ppm TWA; 180 mg/m3 TWA 1100 ppm IDLH (10% LEL) | 500 ppm TWA; 1800 mg/m3 TWA |

| | Route | | |
|-------------------------------|-------------|-------------|-------------|
| Ethyl aluminum sesquichloride | none listed | none listed | none listed |

OSHA Vacated PELs: Hexane: 50 ppm TWA; 180 mg/m³ TWA Ethyl aluminum sesquichloride: None listed

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local explosion-proof ventilation to keep airborne levels to acceptable levels.

Exposure Limits

Personal Protective Equipment

Eyes: Not available

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a

Respirators: NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Clear liquid

Color: colorless

Odor: hexane-like

pH: < 7

Vapor Pressure: Not available

Vapor Density: Not available

Evaporation Rate: Not available

Viscosity: Not available

Boiling Point: Not available

Freezing/Melting Point: Not available

Decomposition Temperature:

Solubility in water: vigorous reaction

Specific Gravity/Density: 0.701

Molecular Formula: C₆H₁₆Al₂Cl₃

Molecular Weight: 247.51

Section 10 - Stability and Reactivity

Chemical Stability: Air sensitive. Reacts violently with water. Moisture sensitive.

Conditions to Avoid: Incompatible materials, ignition sources, exposure to moist air or water, temperatures above 160°C.

Incompatibilities with Other Materials: Not available

Hazardous Decomposition Products: Hydrogen chloride, carbon monoxide, carbon dioxide, aluminum oxide.

Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

RTECS#: CAS# 110-54-3: MN9275000
CAS# 12075-68-2: BD1950000

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;

LD₅₀/LC₅₀: Inhalation, rat: LC₅₀ = 627000 mg/m³/3M;

Oral, rat: LD₅₀ = 25 gm/kg;

RTECS:

CAS# 12075-68-2:

Carcinogenicity: Hexane - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Ethyl aluminum sesquichloride - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other: The toxicological properties have not been fully investigated.

Section 12 - Ecological Information

Other: No information available.

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

US DOT

Shipping Name: ORGANOMETALLIC SUBSTANCE, LIQUID, WATER-REACTIVE, FLAMMABLE

Hazard Class: 4.3

UN Number: UN3399

Packing Group: I

Canada TDG

Shipping Name: Not available

Hazard Class:

UN Number:

Packing Group:

USA RQ: CAS# 110-54-3: 5000 lb final RQ; 2270 kg final RQ

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: F C N

Risk Phrases:

R 11 Highly flammable.

R 14/15 Reacts violently with water liberating extremely flammable gases.

R 35 Causes severe burns.

R 48/20 Harmful : danger of serious damage to health by prolonged exposure through inhalation.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 62 Possible risk of impaired fertility.

R 65 Harmful: may cause lung damage if swallowed.

R 67 Vapours may cause drowsiness and dizziness.

Safety Phrases:

S 6A Keep under nitrogen.

S 16 Keep away from sources of ignition - No smoking.

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 29 Do not empty into drains.

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S 43B In case of fire, use fire-fighting equipment on basis of sodium chloride, sodium bicarbonate (never use water).

S 43E In case of fire, use dry sand (never use water).

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 57 Use appropriate containment to avoid environmental contamination.

WGK (Water Danger/Protection)

CAS# 110-54-3: 1

CAS# 12075-68-2: 1

Canada

CAS# 110-54-3 is listed on Canada's DSL List

CAS# 12075-68-2 is listed on Canada's DSL List

Canadian WHMIS Classifications: Not available

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 110-54-3 is listed on Canada's Ingredient Disclosure List

CAS# 12075-68-2 is not listed on Canada's Ingredient Disclosure List.

US Federal

TSCA

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

CAS# 12075-68-2 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 9/20/2004

Revision #3 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 merchantability 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.
