

Section 1. Product and Company Identification

Product Name POE (5) Hydrogenated Tallow Amine
CAS Number 61790-82-7

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EMERGENCY RESPONSE NUMBER
CHEMTEL
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Section 2. Hazards Identification

Classification of the substance or mixture

Acute Tox. 4 (Oral): H302 -Harmful if swallowed
Skin Corr. 1B: H314 - Causes severe skin burns and eye damage

GHS Label Elements

Pictograms:



Signal word: DANGER

Hazard and precautionary statements

Hazard Statements

H302 - Harmful if swallowed
H314 - Causes severe skin burns and eye damage

Precautionary Statements

P260 - Do not breathe mist, spray, vapors
P264 - Wash hands and forearms thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P280 - Wear eye protection, face protection, protective clothing, protective gloves P301+P312 - If swallowed: Call a doctor, a POISON CENTER if you feel unwell P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing



- P310 - Immediately call a doctor, a POISON CENTER
- P321 - Specific treatment (see Response Precautionary Statements on this label)
- P330 - Rinse mouth
- P363 - Wash contaminated clothing before reuse
- P405 - Store locked up
- P501 - Dispose of contents/container to ensure all national/local regulations are observed

Other hazards not contributing to the classification: Risk of thermal burns on contact with molten product.

Section 3. Composition / Information on Ingredients

Common Name POE (5) Hydrogenated Tallow Amine
CAS Number 61790-82-7

COMPONENT	CAS NUMBER	CONCENTRATION
Amines, hydrogenated tallow alkyl, ethoxylated	61790-82-7	> 99%
1,4-Dioxane	123-91-1	< 0.05%
Ethylene oxide	75-21-8	< 0.01%

Section 4. First Aid Measures

Description of first-aid measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.

Skin contact: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. In the event of contact with molten product, cool skin rapidly with cold water after contact with hot product. Do not peel product from the skin. Immediately call a poison center or doctor/physician.

Eye contact: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. After contact with the molten product, cool rapidly with cold water. Immediately call a poison center or doctor/physician.

Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. Rinse mouth. Immediately call a poison center or doctor/physician.

Most important symptoms and effects, both acute and delayed

Symptoms/injuries: Causes severe skin burns and eye damage.

Inhalation: Inhalation of vapors may cause respiratory irritation.

Skin contact: Burns upon contact with the skin. Risk of thermal burns on contact with molten product.

Eye contact: Causes serious eye damage. Risk of serious permanent damages to eyes if the product is not rapidly removed. Risk of thermal burns on contact with molten product.



Ingestion: Harmful if swallowed. Swallowing a small quantity of this material will result in serious health hazard. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

Indication of any immediate medical attention and special treatment needed: Treat symptomatically.

Section 5. Firefighting Measures

Suitable extinguishing media: Carbon dioxide, dry powder, foam, sand, or water spray.

Unsuitable extinguishing media: Do not use a heavy water stream.

Special hazards arising from the substance or mixture

Fire hazard: Not flammable.

Explosion hazard: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

Reactivity: Thermal decomposition generates corrosive vapors.

Advice for firefighters

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Section 6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures

General measures: Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.

For non-emergency personnel

Emergency procedures: Evacuate unnecessary personnel.

For emergency responders

Protective equipment: Equip cleanup crew with proper protection.

Emergency procedures: Ventilate area.

Environmental precautions: Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

Methods and material for containment and cleaning up

For containment: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

Methods for cleaning up: Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Store away from other materials.



Reference to other sections: No additional information available

Section 7. Handling and Storage

Precautions for safe handling

Additional hazards when processed: Avoid contact with skin, eyes and clothing. Avoid prolonged or repeated contact with skin.

Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe mist, spray, vapors. Use personal protective equipment as required.

Hygiene measures: Do not eat, drink or smoke when using this product. Wash hands and forearms thoroughly after handling. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities

Technical measures: Comply with applicable regulations.

Storage conditions: Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.

Incompatible products: Strong acids. Strong oxidizers.

Storage area: Store, if possible, in a cool, well ventilated place away from incompatible materials.

Special rules on packaging: Handle unclean empty containers as full ones.

Section 8. Exposure Controls / Personal Protection

1,4-Dioxane (123-91-1)		
ACGIH	ACGIH TWA (ppm)	20 ppm
OSHA	OSHA PEL (TWA) (mg/m ³)	360 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	100 ppm

Ethylene oxide (75-21-8)		
ACGIH	ACGIH TWA (ppm)	1 ppm
OSHA	OSHA PEL (TWA) (ppm)	1 ppm
OSHA	OSHA PEL (TWA) (ppm)	5 ppm (see 29 CFR 1910.1047)

Exposure controls

Appropriate engineering controls: Provide adequate ventilation to minimize dust and/or vapor concentrations.

Hand protection: Wear suitable gloves resistant to chemical penetration.

Eye protection: Chemical goggles. Face shield.



Skin and body protection: Wear suitable protective clothing.

Respiratory protection: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.

Section 9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state: Liquid

Appearance: liquid, paste.

Color: amber

Odor: Amine

Odor threshold: No data available

pH: No data available

pH solution: 9 - 10.5 @ 5% in aqueous solution

Melting point: No data available

Freezing point: No data available

Boiling point: No data available

Flash point: > 176°C (Open cup)

Relative evaporation rate (butyl acetate=1): No data available

Flammability (solid, gas): No data available

Explosion limits: No data available

Explosive properties: No data available

Oxidizing properties: No data available

Vapor pressure: No data available

Relative density: No data available

Relative vapor density at 20°C: No data available

Specific gravity/density: 0.97 g/cm³

Solubility: Dispersible.

Log Pow: No data available

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Viscosity: No data available

Viscosity, kinematic: No data available

Viscosity, dynamic: No data available

Other Information: No additional information available

Section 10. Stability and Reactivity

Reactivity: Thermal decomposition generates corrosive vapors.

Chemical stability: No additional information available

Possibility of hazardous reactions: No additional information available

Conditions to avoid: No additional information available

Incompatible materials: Strong acids. Strong oxidizers.



Hazardous decomposition products: Nitrogen oxides. Thermal decomposition generates corrosive vapors.

Section 11. Toxicological Information

Information on toxicological effects

Acute toxicity: Oral; Harmful if swallowed

POE (5) Hydrogenated Tallow Amine

ATE US (oral): 505.051 mg/kg body weight

Additional information: Substance not yet tested completely

1,4-Dioxane (123-91-1)

LD50 oral rat: 4200 mg/kg

LD50 dermal rabbit: 7858 mg/kg

LC50 inhalation rat (mg/l): 46 mg/l (Exposure time: 2 h)

ATE US (oral): 4200.000 mg/kg body weight

ATE US (dermal): 7858.000 mg/kg body weight

ATE US (vapors): 46.000 mg/l/4h

ATE US (dust, mist): 46.000 mg/l/4h

Ethylene oxide (75-21-8)

LD50 oral rat: 72 mg/kg

LC50 inhalation rat (ppm): 800 ppm/4h

ATE US (oral): 72.000 mg/kg body weight

ATE US (gases): 800.000 ppmV/4h

Amines, hydrogenated tallow alkyl, ethoxylated (61790-82-7)

ATE US (oral): 500.000 mg/kg body weight

Skin corrosion/irritation: Causes severe skin burns and eye damage.

Serious eye damage/irritation: Not classified

Respiratory or skin sensitization: Not classified (Lack of data)

Germ cell mutagenicity: Not classified (Lack of data)

Carcinogenicity: Not classified (Lack of data)

1,4-Dioxane (123-91-1)

IARC group: 2B - Possibly carcinogenic to humans

National Toxicology Program (NTP) Status: 1 - Evidence of Carcinogenicity, 3 - Reasonably anticipated to be Human Carcinogen

In OSHA Hazard Communication Carcinogen list: Yes

Ethylene oxide (75-21-8)



IARC group: 1 - Carcinogenic to humans

National Toxicology Program (NTP) Status: 1 - Evidence of Carcinogenicity, 2 - Known Human Carcinogens

In OSHA Hazard Communication Carcinogen list: Yes

In OSHA Specifically Regulated Carcinogen list: Yes

Reproductive toxicity: Not classified (Lack of data)

Specific target organ toxicity (single exposure): Not classified (Lack of data)

Specific target organ toxicity (repeated exposure): Not classified (Lack of data)

Aspiration hazard: Not classified (Lack of data)

Potential Adverse human health effects and symptoms: harmful if swallowed

Symptoms/injuries after inhalation: Inhalation of vapors may cause respiratory irritation.

Symptoms/injuries after skin contact: Burns upon contact with the skin. Risk of thermal burns on contact with molten product.

Symptoms/injuries after eye contact: Causes serious eye damage. Risk of serious permanent damages to eyes if the product is not rapidly removed. Risk of thermal burns on contact with molten product.

Symptoms/injuries after ingestion: Harmful if swallowed. Swallowing a small quantity of this material will result in serious health hazard. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract

Section 12. Ecological Information

Toxicity

Ecology - General: This material has not been tested for environmental effects

1,4-Dioxane (123-91-1)

LC50 fish 1: > 10,000 mg/l (Exposure time: 96h - Species: Lepomis macrochirus [static])

EC50 Daphnia 1: 163 mg/l (Exposure time: 48h - Species: water flea [Static])

LC50 fish 2: > 10,000 mg/l (Exposure time: 96h - Species: Lepomis macrochirus [semi-static])

Ethylene oxide (75-21-8)

LC50 fish 1: 73 - 96 mg/l (Exposure time: 96h - Species: Pimephales promelas)

EC50 Daphnia 1: 137 - 300 mg/l (Exposure time: 48h - Species: Daphnia magna)

Persistence and degradability: No additional information available

Bioaccumulative potential

1,4-Dioxane (123-91-1)

BCF fish 1: 0.2 - 0.7

Log Pow: -0.42



Ethylene oxide (75-21-8)

Log Pow: -0.3 (at 25 °C)

Mobility in soil: No additional information available

Other adverse effects

Effect on ozone layer: Not determined

Effect on the global warming: Not determined

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

Department of Transportation (DOT)

Transport document description: UN2735 Amines, liquid, corrosive, n.o.s. Contains ethoxylated hydrogenated tallow amines, 8, III

UN-No.(DOT): UN2735

Proper Shipping Name (DOT): Amines, liquid, corrosive, n.o.s. Contains ethoxylated hydrogenated tallow amines

Transport hazard class(es) (DOT): 8 - Class 8 - Corrosive material 49 CFR 173.136

Hazard labels (DOT): 8 - Corrosive

Packing group (DOT): III - Minor Danger

DOT Packaging Non Bulk (49 CFR 173.xxx): 203

DOT Packaging Bulk (49 CFR 173.xxx): 241

DOT Symbols: G - Identifies PSN requiring a technical name

DOT Special Provisions (49 CFR 172.102): IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T7 - 4 178.274(d)(2)

Normal..... 178.275(d)(3) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx): 154

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27): 5 L

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75): 60 L

DOT Vessel Stowage Location: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.



DOT Vessel Stowage Other: 52 - Stow "separated from" acids
Emergency Response Guide (ERG) Number: 153
Other information: No supplementary information available.

TDG: No additional information available

Transport by sea

UN-No. (IMDG): 2735
Proper Shipping Name (IMDG): AMINES, LIQUID, CORROSIVE, N.O.S.
Class (IMDG): 8 - Corrosive substances
Packing group (IMDG): III - substances presenting low danger
Transport document description (IMDG): UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S., 8, III
EmS-No. (1): F-A
EmS-No. (2): S-B

Air transport

UN-No. (IATA): 2735
Proper Shipping Name (IATA): Amines, liquid, corrosive, n.o.s.
Class (IATA): 8 - Corrosives
Packing group (IATA): III - Minor Danger

Section 15. Regulatory Information

US Federal regulations

POE (5) Hydrogenated Tallow Amine	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard

1,4-Dioxane (123-91-1)

RQ (Reportable quantity, section 304 of EPA's List of Lists)100lb	
SARA Section 313 - Emission Reporting	0.1%

Ethylene oxide (75-21-8)

RQ (Reportable quantity, section 304 of EPA's List of Lists)10 lb	
SARA Section 302 Threshold Planning Quantity (TPQ)	1000
SARA Section 313 - Emission Reporting	0.1%

Amines, hydrogenated tallow alkyl, ethoxylated (61790-82-7)

SARA Section 311/312 Hazard Classes: Immediate (acute) health hazard



International regulations

Canada

POE (5) Hydrogenated Tallow Amine	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class E - Corrosive Material

1,4-Dioxane (123-91-1)

WHMIS Classification Class B Division 2: Flammable Liquid Class D Division 2 Subdivision A: Very toxic material causing other toxic effects Class D Division 2 Subdivision B: Toxic material causing other toxic effects	
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Ethylene oxide (75-21-8)

WHMIS Classification Class A: Compressed Gas Class B Division 1: Flammable Gas Class D Division 1 Subdivision A: Very toxic material causing immediate and serious toxic effects Class D Division 2 Subdivision A: Very toxic material causing other toxic effects Class E: Corrosive Material Class F: Dangerously Reactive Material	
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Amines, hydrogenated tallow alkyl, ethoxylated (61790-82-7)

WHMIS Classification Class E: Corrosive Material	
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National regulations

POE (5) Hydrogenated Tallow Amine

- Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
- Listed on the AICS (Australian Inventory of Chemical Substances)
- Listed on the Korean ECL (Existing Chemicals List)
- Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
- Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

US State regulations

1,4-Dioxane (123-91-1)

US – California – Proposition 65 – Carcinogens List: Yes

US – California – Proposition 65 – Developmental Toxicity: No

US – California – Proposition 65 – Reproductive Toxicity – Female: No

US – California – Proposition 65 – Reproductive Toxicity – Male: No



No significant risk level (NSRL): 30 µg/day

Ethylene oxide (75-21-8)

US – California – Proposition 65 – Carcinogens List: Yes

US – California – Proposition 65 – Developmental Toxicity: Yes

US – California – Proposition 65 – Reproductive Toxicity – Female: Yes

US – California – Proposition 65 – Reproductive Toxicity – Male: Yes

No significant risk level (NSRL): 2 µg/day

1,4-Dioxane (123-91-1)

US – Massachusetts – Right to Know List

US – Minnesota – Hazardous Substance List

US – New Jersey – Right to Know Hazardous Substance List

US – Pennsylvania – RTK (Right to Know) – Environmental Hazard List

US – Pennsylvania – RTK (Right to Know) – Special Hazardous Substances

US – Pennsylvania – RTK (Right to Know) List

Ethylene oxide (75-21-8)

US – Massachusetts – Right to Know List

US – Minnesota – Hazardous Substance List

US – New Jersey – Right to Know Hazardous Substance List

US – Pennsylvania – RTK (Right to Know) – Environmental Hazard List

US – Pennsylvania – RTK (Right to Know) – Special Hazardous Substances

US – Pennsylvania – RTK (Right to Know) List

Section 16. Other Information

Disclaimer: 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.

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