

SAFETY DATA SHEET

SDS: 0062653
Date Prepared: 16-Apr-2021

Version: 2
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1. IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product Name: SUPASCREED LA HARDENER Standard /Normal
Product Description: Epoxy hardener
Intended/Recommended Use: Hardener
Uses advised against: Not available

Allnex New Zealand Ltd.
14 Industry Road, Penrose, Auckland 1061, New Zealand

For Product and all Non-Emergency Information call +64 (09) 583 6500 (business hours only) or contact us at <http://www.allnex.com/contact>

EMERGENCY TELEPHONE NUMBER (24 hours/day) - For emergency only involving spill, leak, fire, exposure or accident call:

+64 0800 803 002 (Allnex New Zealand)
See Section 16 for Emergency phone numbers for other regions.

2. HAZARDS IDENTIFICATION

Regulatory information

Classified as Hazardous according to the Hazardous Substances (Minimum Degrees of Hazard) Notice 2017

EPA New Zealand HSNO approval code or group standard: HSR002491

Group Standard: Additives, process chemicals and raw materials (Corrosive) Group Standard 2017

GHS Classification

Acute Toxicity (Oral) Hazard Category 4 - HSNO 6.1D
Acute Toxicity (Inhalation) Hazard Category 4 - HSNO 6.1D
Skin Corrosion / Irritation Hazard Category 1B - HSNO 8.2B
Serious Eye Damage / Eye Irritation Hazard Category 1 - HSNO 8.3A
Skin Sensitizer Hazard Category 1 - HSNO 6.5B
Aquatic Environment Acute Hazard Category 3 - HSNO 9.1D
Aquatic Environment Chronic Hazard Category 3 - HSNO 9.1C

LABEL ELEMENTS



Signal Word

Danger

Hazard Statements

Harmful if swallowed
Harmful if inhaled
Causes severe skin burns and eye damage
May cause an allergic skin reaction
Harmful to aquatic life
Harmful to aquatic life with long lasting effects

Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment.

Response

IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a POISON CENTER or doctor/physician. Specific treatment (see supplemental first aid instructions on this label). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Take off contaminated clothing and wash it before reuse.

Storage

Store locked up.

Disposal

Dispose of contents/container in accordance with local and national regulations.

OTHER HAZARDS

Not applicable

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Substance, Mixture or Article? Mixture

Component / CAS No.	%
Benzyl alcohol 100-51-6	35-45
Isophoronediamine 2855-13-2	20-30
Triethylenetetramine 112-24-3	20-30
2,4,6-Tris (dimethyl aminomethyl)phenol 90-72-2	8-12

4. FIRST-AID MEASURES

Emergency telephone number

Poisons Information Centre, New Zealand: 0800 764 766

First-aid Measures

Inhalation:

Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical advice/attention. Get medical attention immediately if symptoms occur.

Skin Contact:

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical advice/attention. Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists. Wash immediately with plenty of water and soap. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a doctor. If symptoms persist, call a doctor. If skin irritation persists, call a physician. Rinse immediately with plenty of water for at least 15 minutes.

Eye Contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

Ingestion:

Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Immediate medical attention is required. Call a doctor.

Most Important Symptoms and Effects, Acute and Delayed

Burning sensation. Itching. Rashes. Hives.

Immediate Medical Attention and Special Treatment

Notes To Physician:

Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. May cause sensitisation in susceptible persons. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media:

full water jet.

Protective Equipment:

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

Special Hazards:

May be ignited by heat, sparks or flames. Some are oxidisers and may ignite combustibles (wood, paper, oil, clothing, etc.). In case of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact. Thermal decomposition can lead to release of irritating and toxic gases and vapours. The product causes irritation of eyes, skin and mucous membranes. Product is or contains a sensitiser. May cause sensitization by skin contact.

HAZCHEM Code: 2X

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Attention! Corrosive material. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Methods For Containment:

Prevent further leakage or spillage if safe to do so.

Methods For Cleaning Up:

Take up mechanically, placing in appropriate containers for disposal.

Environmental Precautions:

Avoid release to the environment.

References to other sections:

See Sections 7, 8 and 13 for additional information.

7. HANDLING AND STORAGE

Handling

Precautions: Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment.

Special Handling Statements: Handle in accordance with good industrial hygiene and safety practices. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse.

Storage

Keep container tightly closed and dry in a cool, well-ventilated place. Keep out of reach of children. Store locked up. Protect from moisture. Store separately.

Storage Temperature: Ambient temperature

Reason: Quality.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

CONTROL PARAMETERS - Limits

No values have been established.

Biological Exposure Limit(s)

No values have been established.

Engineering Measures:

Ensure adequate ventilation, especially in confined areas.

Respiratory Protection:

Where exposures exceed the established exposure limit, use respiratory protection recommended for the material and level of exposure. Where exposures are below the established exposure limit, no respiratory protection is required. Where respiratory protection is required, use a respirator selected and in accordance with AS/NZS 1715 and AS/NZS

1716.

Eye protection:

Tight sealing safety goggles. Face protection shield.

Skin Protection:

Gloves made of plastic or rubber. Wear rubber boots. Wear suitable protective clothing. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Wear chemical resistant clothing such as gloves, apron, boots or whole bodysuits made from neoprene, as appropriate.

Hand protection:

Wear protective gloves. Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred. Replace gloves immediately when torn or any change in appearance (dimension, colour, flexibility etc) is noticed.

Additional Advice:

When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Keep away from food, drink and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Take off contaminated clothing and wash it before reuse. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and immediately after handling the product. Wash hands before breaks and after work.

9. PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Colour:	amber
Appearance:	liquid viscous
Odor:	amine
Odor Threshold:	See Section 8 for exposure limits.
pH:	~ 13 Approximately
Melting Point:	Not available
Boiling Point:	Not available
Flash point:	> 93 °C
Evaporation Rate:	< 1
Flammable Limits (% By Vol):	Not available
Vapor Pressure:	Not available
Vapour density:	> 1
Specific Gravity/Density:	~ 1.03 g/cm ³ -
Solubility In Water:	Partly soluble soluble in water
Partition coefficient (n-octanol/water):	Not available
Autoignition temperature:	Not available
Decomposition Temperature:	Not available
Viscosity (Kinematic):	Not applicable
Viscosity (Dynamic):	~ 140 - 150 mPa.s
Flammability:	Not available
Oxidizing Properties:	Not available

OTHER INFORMATION

Fat Solubility (Solvent-Oil):	Not available
Percent Volatile (% by wt.):	Not available
Solids Content:	Not available
Saturation In Air (% By Vol.):	Not available

Acid Number (mg KOH/g): Not available
Hydroxyl Value (mg KOH/g): Not available
Volatile Organic Content (1999/13/EC): Not available

10. STABILITY AND REACTIVITY

Reactivity: No information available

Stability: Stable

Conditions To Avoid: Exposure to air or moisture over prolonged periods.

Polymerization: Will not occur

Conditions To Avoid: None known.

Materials To Avoid: Strong oxidizing agents.
Strong acids
Strong bases

Hazardous Decomposition Products: Thermal decomposition can lead to release of irritating and toxic gases and vapours.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Skin, Eyes, Oral.

HEALTH HAZARD INFORMATION

Acute toxicity - oral: Harmful if swallowed

Acute toxicity - dermal: Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

Acute toxicity - inhalation: Harmful if inhaled

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

Serious eye damage / eye irritation: Causes serious eye damage

Respiratory sensitization: Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

Skin sensitization: May cause an allergic skin reaction

Carcinogenicity: Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

Germ cell mutagenicity: Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

Reproductive toxicity: Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

Specific target organ toxicity (single exposure): Not Classified. - Based on available data and/or professional judgment, the classification criteria are not met.

Specific target organ toxicity (repeated exposure): Not Classified. - Based on available data and/or professional judgment, the classification criteria are not met.

Aspiration hazard: Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

PRODUCT TOXICITY INFORMATION

ACUTE TOXICITY DATA

oral	rat	Acute LD50	1073 mg/kg
dermal	rabbit	Acute LD50	> 2000 mg/kg
inhalation	rat	Acute LC50 4 hr	3.33 mg/l (Dust/Mist)

LOCAL EFFECTS ON SKIN AND EYE

Acute Irritation	Skin	Corrosive
Acute Irritation	eye	Causes serious damage

ALLERGIC SENSITIZATION

Sensitization	Skin	Severe Sensitizing
Sensitization	respiratory	No data

GENOTOXICITY

Assays for Gene Mutations

Ames Salmonella Assay	No data
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Chronic toxicity

Chronic exposure to corrosive fumes/gases may cause erosion of the teeth followed by jaw necrosis. Bronchial irritation with chronic cough and frequent attacks of pneumonia are common. Gastrointestinal disturbances may also be seen. Avoid repeated exposure. Possible risk of irreversible effects.

OTHER INFORMATION

The product toxicity information above has been estimated.

HAZARDOUS INGREDIENT TOXICITY DATA

Benzyl alcohol has acute oral (rat) and dermal (rabbit) LD50 values of 1230 mg/kg and greater than 2000 mg/kg, respectively. Direct contact with benzyl alcohol can cause moderate eye and mild skin irritation. Inhalation of benzyl alcohol can cause irritation of the upper respiratory tract and exposure to high concentrations may result in central nervous system depression with headaches, dizziness and nausea. Ingestion of high quantities of benzyl alcohol can cause similar effects.

Isophoronediamine has an acute oral (rat) and dermal (rabbit) LD50 value of 1030 and > 2000 mg/kg respectively. The LC50 value following a 4-hour inhalation exposure to rats is 1.07 -5.01 mg/L. Respiratory difficulties were observed for all animals. Direct contact may cause severe eye and skin irritation. Isophoronediamine cause marked sensitization when tested in laboratory animals. Isophoronediamine was not genotoxic in several studies (in vitro and in vivo). Developmental effects were not observed in a prenatal study in rats. Carcinogenicity has not been investigated.

Triethylenetetramine (TETA) has acute oral (rat) and acute dermal (rabbit) LD50 values of 1716 mg/kg and 1465 mg/kg, respectively. Direct contact with TETA can produce severe skin irritation with necrosis and moderate to severe eye irritation. Skin contact may cause an allergic skin reaction. Inhalation of TETA may cause respiratory tract irritation/burns and potential respiratory sensitization in sensitive individuals. TETA was mutagenic in the Ames test and produced genetic damage in an E. coli differential repair assay but did not induce chromosomal aberrations in the in vivo mouse micronucleus assay. TETA did not exhibit carcinogenic potential in a lifetime mouse skin painting study.

2,4,6-Tris (dimethyl amino methyl phenol) has acute oral (rat) LD50 values of > 2000 mg/kg, but it should be noted

that 3/10 animals died at this dose. This substance is highly corrosive to skin and causes irreversible eye damage. Allergic reactions were only very mild in animal studies. Marginal effects on male fertility were observed in rats. Prenatal toxicity was not seen in rats or rabbits. In vitro studies have not revealed a genotoxic potential.

12. ECOLOGICAL INFORMATION

Overall Environmental Toxicity: Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

The ecological assessment for this material is based on an evaluation of its components.

ECOTOXICITY

Not available

BIOACCUMULATIVE POTENTIAL

Not available

PERSISTENCE AND DEGRADABILITY

Not available

MOBILITY IN SOIL

Not available

OTHER ADVERSE EFFECTS

HAZARD TO THE OZONE LAYER

Not available

HAZARDOUS INGREDIENT TOXICITY DATA

Component / CAS No.	Toxicity to Fish
Benzyl alcohol (100-51-6)	LC50 = 10 mg/L - <i>Lepomis macrochirus</i> (96h) LC50 = 460 mg/L - <i>Pimephales promelas</i> (96h)
Isophoronediamine (2855-13-2)	Not available
Triethylenetetramine (112-24-3)	LC50 = 495 mg/L - <i>Pimephales promelas</i> (96h) LC50 = 570 mg/L - <i>Poecilia reticulata</i> (96h)
2,4,6-Tris (dimethyl aminomethyl)phenol (90-72-2)	LC100 > 100 mg/L - <i>Cyprinus carpio</i> - 96hrs

Component / CAS No.	Toxicity to Water Flea
Benzyl alcohol (100-51-6)	EC50 = 23 mg/L - water flea (48h)

Isophoronediamine (2855-13-2)	EC50 = 23 mg/L - Daphnia magna (48h) NOEC = 8.3 mg/L - Daphnia magna (48h) NOEC = 3 mg/L - Daphnia magna (21d)
Triethylenetetramine (112-24-3)	EC50 = 31.1 mg/L - Daphnia magna (48h)
2,4,6-Tris (dimethyl aminomethyl)phenol (90-72-2)	EC50 > 100 mg/L - Daphnia magna - 48hrs

Component / CAS No.	Toxicity to Algae
Benzyl alcohol (100-51-6)	Not available
Isophoronediamine (2855-13-2)	EC50 = 37 mg/L - Desmodesmus subspicatus (72h) NOEC = 1.5 mg/L Desmodesmus subspicatus (72h)
Triethylenetetramine (112-24-3)	EC50 = 2.5 mg/L - Desmodesmus subspicatus (72h) EC50 = 20 mg/L - Pseudokirchneriella subcapitata (72h) EC50 = 3.7 mg/L - Pseudokirchneriella subcapitata (96h)
2,4,6-Tris (dimethyl aminomethyl)phenol (90-72-2)	EC50 = 46.7 mg/L - Pseudokirchneriella subcapitata - 72hrs EC10 = 25.1 mg/L - Pseudokirchneriella subcapitata - 72hrs

Component / CAS No.	Partition coefficient
Benzyl alcohol (100-51-6)	1.1
Isophoronediamine (2855-13-2)	0.79
Triethylenetetramine (112-24-3)	-1.4
2,4,6-Tris (dimethyl aminomethyl)phenol (90-72-2)	Not available

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

The company encourages the recycle and reuse of products and packaging, where possible and permitted.

Product disposal

When recycle or reuse is not possible, the company recommends that our products, especially when classified as hazardous, be disposed of by thermal treatment or incineration at approved facilities. All local and national regulations should be followed.

Packaging disposal

Handle contaminated packages in the same way as the product itself. Disposal of emptied and cleaned packaging must be made in accordance with applicable local and national regulations.

Disposal-relevant information

Do not release directly or indirectly to surface water, ground water, soil or public sewage system.

14. TRANSPORT INFORMATION

This section provides basic shipping classification information. Refer to appropriate transportation regulations for specific requirements.

Road transport

Dangerous Goods? X

PROPER SHIPPING NAME: CORROSIVE LIQUID, N.O.S.
Hazard Class: 8
UN Number: UN1760
Packing Group: II
Transport Label Required: corrosive
TECHNICAL NAME (N.O.S.): ISOPHORONEDIAMINE, TRIETHYLENETETRAMINE
HAZCHEM Code: 2X
IERG: 37

IMO

Dangerous Goods? X

UN PROPER SHIPPING NAME: CORROSIVE LIQUID, N.O.S.
Transport Hazard Class: 8
UN Number: UN1760
Packing Group: II
Transport Label Required: Corrosive
TECHNICAL NAME (N.O.S.): ISOPHORONEDIAMINE, TRIETHYLENETETRAMINE

ICAO / IATA

Dangerous Goods? X

UN PROPER SHIPPING NAME: CORROSIVE LIQUID, N.O.S.
Transport Hazard Class: 8
Packing Group: II
UN Number: UN1760
Transport Label Required: Corrosive
TECHNICAL NAME (N.O.S.): ISOPHORONEDIAMINE, TRIETHYLENETETRAMINE

15. REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product in question

Ozone Depleting Substances (Regulation (EC) No 1005/2009): Not applicable

Persistent Organic Pollutants (Regulation (EC) No 850/2004): Not applicable

EPA New Zealand HSNO approval code or group standard: HSR002491

Group Standard: Additives, process chemicals and raw materials (Corrosive) Group Standard 2017

Health and Safety at Work Hazardous Substances Regulations 2017

Tracking:

This product is not a Tracked Substance.

Certified Handler:

This product does not require a certified handler.

Controlled Substance: Not applicable

Inventory Information

New Zealand: This product is approved or exempt under the Hazardous Substances and New Organisms (HSNO) Act.

Australia: All components of this product are included in the Australian Inventory of Industrial Chemicals (AIIC) or are not required to be listed on AIIC.

European Economic Area (including EU): When purchased and shipped from an Allnex legal entity based in the EEA (EU or Norway), this product is compliant with the registration of the REACH Regulation (EC) No. 1907/2006 as all its components are either excluded, exempt and/or registered.

United States (USA): All components of this product are designated as "Active" on the TSCA Inventory or are not required to be listed.

Canada: All components of this product are included on the Domestic Substances List (DSL) or are not required to be listed on the DSL.

China: All components of this product are included on the Chinese inventory or are not required to be listed on the Chinese inventory.

Japan: All components of this product are included on the Japanese (ENCS) inventory or are not required to be listed on the Japanese inventory.

Korea: All components of this product are included on the Korean (ECL) inventory or are not required to be listed on the Korean inventory. When purchased from Allnex Korea or Chemart distributor this product is compliant with the ARECs (the Act on the Registration and Evaluation, etc. of Chemical Substances). All its components are either excluded, exempt, pre-notified and/or registered. When purchased from another allnex entity, please contact PSRA-KREACH@allnex.com to check the possibility to be covered by our Only Representative.

Philippines: All components of this product are included on the Philippine (PICCS) inventory or are not required to be listed on the Philippine inventory.

Taiwan: All components of this product are included in the Taiwan chemical substance inventory or are not required to be listed on the Taiwan chemical substance inventory (TCSI).

16. OTHER INFORMATION

Reasons for Issue: Revised Section 9

Date Prepared: 16-Apr-2021

Date of last significant revision: 02-Sep-2020

Emergency phone numbers for other regions

Asia Pacific

Australia: +61 1800 022 037 (Allnex Australia)

China (PRC): +86(0)532 8388 9090 (NRCC)

India: 000 800 100 7479 (toll free) or +65 3158 1198 (Carechem 24)

Indonesia: 007 803 011 0293 (Carechem 24)

Japan: +81 345 789 341 (Carechem 24)

Korea: +82 2 3479 8401 (Carechem 24)

Malaysia: +60 3 6207 4347 (Carechem 24)

Philippines: +63 2 231 2149 (Carechem 24)

Taiwan: +886 2 8793 3212 (Carechem 24)

Vietnam: +84 8 4458 2388 (Carechem 24)

All Others: +65 3158 1074 (Carechem 24)

Europe

+44 (0) 1235 239 670 (Carechem 24)

Middle East, Africa

+44 (0) 1235 239 671 (Carechem 24)

Latin America

Brazil: +55-800-707-7022 (toll free) or +55-11-98149-0850 (Suatrans 24)

Chile: +56 2 2582 9336 (Carechem 24)

Mexico and all others: +52-555-004-8763 (Carechem 24)

Canada and USA

+1-866-928-0789 (toll free) or +1-215-207-0061 (Carechem 24 - Allnex29003-NCEC)

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
C	Carcinogen		

Prepared By: Product Stewardship & Regulatory Affairs Department, <http://www.allnex.com/contact>
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