



## SAFETY DATA SHEET

Safety Data Sheet conforms to Safe Work Australia and Work Health and Safety (WHS) Regulations

SDS: 0073508  
Date Prepared: 12-Oct-2022

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

**Product Name:** NUTHANE® GLOSS HARDENER  
**Other means of identification:** None  
**Product Description:** Catalyst  
**Intended/Recommended Use:** Surface coating  
**Uses advised against:** Not available

**Allnex Australia Pty. Ltd.**  
49 - 61 Stephen Road, Botany, NSW 2019, Australia

**For Product and all Non-Emergency Information call** +61 (02) 9666 0331 (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:**

+61 1800 022 037 (Allnex Australia)  
See Section 16 for Emergency phone numbers for other regions.

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### 2. HAZARDS IDENTIFICATION

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

Additional GHS classification or other information may be included in this section but has not been adopted by Work Health and Safety (WHS) Regulations.

#### GHS Classification

Flammable Liquids Hazard Category 3  
Acute Toxicity (Oral) Hazard Category 4  
Acute Toxicity (Dermal) Hazard Category 4  
Acute Toxicity (Inhalation) Hazard Category 4  
Specific Target Organ Toxicity (STOT) - Single Exposure Hazard Category 3  
Skin Corrosion / Irritation Hazard Category 3  
Serious Eye Damage / Eye Irritation Hazard Category 1  
Aquatic Environment Acute Hazard Category 2  
Aquatic Environment Chronic Hazard Category 2

#### LABEL ELEMENTS

**Name of Pictogram(s)**

Flame  
Health hazard  
Corrosion  
Exclamation mark  
Environment

**Signal Word**

DANGER

**Hazard Statements**

Flammable liquid and vapour  
Harmful if swallowed  
Harmful in contact with skin  
Harmful if inhaled  
May cause drowsiness or dizziness  
Causes mild skin irritation  
Causes serious eye damage  
Toxic to aquatic life  
Toxic to aquatic life with long lasting effects

**Precautionary Statements****Prevention**

Avoid release to the environment. Keep away from heat, sparks and open flame. - No smoking. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion-proof electrical, ventilating, lighting and other equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Use only outdoors or in a well-ventilated area. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid breathing vapors or spray mist. Wear protective gloves/clothing and eye/face protection.

**Response**

Collect spillage. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTRE or doctor/physician if you feel unwell. Specific measures - refer to first aid instructions on the safety data sheet. Wash contaminated clothing before reuse. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor/physician if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician. Rinse mouth. If skin irritation occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of fire, use the following media for extinction: water spray or fog, alcohol foam, Carbon dioxide, dry chemical.

**Storage**

Store in well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

**Disposal**

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

**OTHER HAZARDS**

Not applicable

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**3. COMPOSITION AND INFORMATION ON INGREDIENTS**

**Substance or Mixture?:** Mixture

Component / CAS No.	%	GHS Classification
1-Propanol 71-23-8	15-30	Flam. Liq. 2 (H225) STOT SE 3 (H336) Eye Dam. 1 (H318)
Tetrabutylammonium bicarbonate 17351-62-1	20-<25	Acute Tox. 4 (H302) Acute Tox. 3 (H311) Acute Tox. 4 (H332) Skin Irrit. 3 (H316) STOT SE 3 (H336) Aquatic Acute 2 (H401) Aquatic Chronic 2 (H411)
Tetrabutylammonium propylcarbonate 1338579-13-7	5-<10	Acute Tox. 4 (H302) Acute Tox. 3 (H311) Acute Tox. 4 (H332) Skin Irrit. 3 (H316) STOT SE 3 (H336) Aquatic Acute 2 (H401) Aquatic Chronic 2 (H411)
Tetrabutylammonium ethylcarbonate 478796-04-2	1-<5	Acute Tox. 4 (H302) Acute Tox. 3 (H311) Acute Tox. 4 (H332) Skin Irrit. 3 (H316) STOT SE 3 (H336) Aquatic Acute 2 (H401) Aquatic Chronic 2 (H411)
Ethanol 64-17-5	5-10	Flam. Liq. 2 (H225) Skin Irrit. 3 (H316) Eye Irrit. 2A (H319)

Other non-hazardous ingredients to 100%

Additional GHS classification or other information may be included in this section but has not been adopted by Work Health and Safety (WHS) Regulations.

See Section 16 for full text of H phrases.

## 4. FIRST-AID MEASURES

### Emergency telephone number

Poisons Information Centre, Australia: 13 11 26

### Symptoms and Signs of Poisoning:

None known.

### 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. Get immediate medical advice/attention. Remove contact lenses, if present and easy to do. Continue rinsing.

### Skin Contact:

Wash immediately with plenty of water and soap.

### Ingestion:

If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

**Inhalation:**

Remove to fresh air. If breathing is difficult, give oxygen. Obtain medical advice if there are persistent symptoms.

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## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media:**

Use water spray, alcohol foam, carbon dioxide or dry chemical to extinguish fires. Water stream may be ineffective.

**Unsuitable Extinguishing Media:**

full water jet.

**Protective Equipment:**

Wear self contained breathing apparatus for fire fighting if necessary.

**Special Hazards:**

Keep containers cool by spraying with water if exposed to fire.

**HAZCHEM Code:** •3Y

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## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:**

Where exposure level is not known, wear approved, positive pressure, self-contained respirator. Where exposure level is known, wear approved respirator suitable for level of exposure. In addition to the protective clothing/equipment in Section 8 (Exposure Controls/Personal Protection), wear impermeable boots.

**Methods For Cleaning Up:**

Remove sources of ignition. Cover spills with some inert absorbent material; sweep up and place in a waste disposal container. Flush spill area with water.

**Environmental Precautions:**

Avoid release to the environment.

**References to other sections:**

See Sections 7, 8 and 13 for additional information.

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## 7. HANDLING AND STORAGE

**Handling**

**Precautions:** Avoid release to the environment. Keep away from heat, sparks and open flame. - No smoking. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion-proof electrical, ventilating, lighting and other equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Use only outdoors or in a well-ventilated area. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid breathing vapors or spray mist. Wear protective gloves/clothing and eye/face protection.

**Special Handling Statements:** Provide good ventilation of working area (local exhaust ventilation if necessary). During processing and handling of the product, comply with the indicative occupational exposure limit values. Containers must be bonded and grounded when pouring or transferring material.

**Storage**

Store in a cool, dry, well ventilated place and keep container tightly closed. Areas containing this material should have fire safe practices and electrical equipment in accordance with applicable regulations and/or guidelines. Standards are primarily based on the material's flashpoint, but may also take into account properties such as miscibility with water or toxicity. All local and national regulations should be followed. Keep away from sources of ignition - refrain from smoking. Take precautionary measures against electrostatic loading - earthing necessary during loading

operations. Observe the general rules of industrial fire protection.

**Storage Temperature:** Store at 0 - 30 °C

**Reason:** Quality.

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**Australian AS 1940 Storage Classification:** Flammable liquid

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## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### CONTROL PARAMETERS - Limits

#### 1-Propanol 71-23-8

Australia:	200 ppm (TWA)
	492 mg/m <sup>3</sup> (TWA)
	250 ppm (STEL)
	614 mg/m <sup>3</sup> (STEL)
New Zealand:	200 ppm (TWA)
	492 mg/m <sup>3</sup> (TWA)
	250 ppm (STEL)
	614 mg/m <sup>3</sup> (STEL)
	(skin)
ACGIH (TLV):	100 ppm (TWA)

#### Ethanol 64-17-5

Australia:	1000 ppm (TWA)
	1880 mg/m <sup>3</sup> (TWA)
New Zealand:	1000 ppm (TWA)
	1880 mg/m <sup>3</sup> (TWA)
ACGIH (TLV):	1000 ppm (STEL)

### Biological Exposure Limit(s)

No values have been established.

### Engineering Measures:

Utilize a closed system process where feasible. Where this material is not used in a closed system, good enclosure and local exhaust ventilation should be provided to control exposure.

### Respiratory Protection:

For operations where inhalation exposure can occur use an approved respirator. Recommendations are listed below. Other protective respiratory equipment may be used based on user's own risk assessment. Where respiratory protection is required, use a respirator selected and in accordance with AS/NZS 1715 and AS/NZS 1716.

#### Recommended:

Full Face Mask with organic vapor cartridge, Type A filter (BP >65°C)

### Eye protection:

Prevent eye and skin contact. Provide eye wash fountain and safety shower in close proximity to points of potential exposure. Wear eye/face protection such as chemical splash proof goggles or face shield.

### Skin Protection:

Avoid skin contact. Wear impermeable gloves and suitable protective clothing.

### Hand protection:

Wear protective gloves. Recommendations are listed below. Other protective materials may be used based on user's

own risk assessment. 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, color, flexibility etc.) is noticed.

Gloves for repeated or prolonged exposure - non exhaustive list:

Nitrile rubber (NBR), thickness: > 0.38 mm, break through time: > 480 min

Gloves for short term exposure/splash protection - non exhaustive list:

Nitrile rubber (NBR), thickness: 0.12 mm, break through time: up to 120 min

The chemical resistance depends on the type of product and amount of product on the glove. Therefore gloves need to be changed when in contact with chemicals.

Not suitable gloves - non exhaustive list:

Natural rubber (NRL), thickness: 0.12 mm

Due to many conditions (e.g. temperature, abrasion) the practical usage of a chemical protective glove in practice may be much shorter than the permeation time determined through testing. Use PE gloves as under gloves for difficult situations like for instance: high exposure, unknown composition or unknown properties of the chemicals.

**Additional Advice:**

Food, beverages, and tobacco products should not be carried, stored, or consumed where this material is in use. Before eating, drinking, or smoking, wash face and hands thoroughly with soap and water.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	liquid clear
<b>Colour:</b>	colourless
<b>Odor Threshold:</b>	See Section 8 for exposure limits.
<b>Melting Point:</b>	Not available
<b>Boiling Point:</b>	100 °C
<b>Flammability:</b>	Not available
<b>Flammable Limits (% By Vol):</b>	Not available
<b>Flash point:</b>	27 °C
<b>Autoignition temperature:</b>	Not available
<b>Decomposition Temperature:</b>	Not available
<b>pH:</b>	10.4
<b>Viscosity (Kinematic):</b>	Not applicable
<b>Viscosity (Dynamic):</b>	Not available
<b>Solubility In Water:</b>	Not available
<b>Solubility In Solvent:</b>	Not available
<b>Partition coefficient (n-octanol/water):</b>	Not available
<b>Vapor Pressure:</b>	Not available
<b>Specific Gravity/Density:</b>	0.95 g/cm <sup>3</sup>
<b>Vapour density:</b>	Not available
<b>Particle characteristics:</b>	Not applicable

### 9.2 OTHER INFORMATION

#### 9.2.1 Information with regard to physical hazard classes

Not applicable

#### 9.2.2 Other safety characteristics

Not applicable

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## 10. STABILITY AND REACTIVITY

<b>Reactivity:</b>	No information available
<b>Stability:</b>	Stable.
<b>Conditions To Avoid:</b>	Protect from heat and direct sunlight.
<b>Polymerization:</b>	Will not occur
<b>Conditions To Avoid:</b>	None known
<b>Materials To Avoid:</b>	Strong oxidizing agents. Strong acids Strong bases
<b>Hazardous Decomposition Products:</b>	None known

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## 11. TOXICOLOGICAL INFORMATION

**Likely Routes of Exposure:** Skin, Eyes, Oral, Respiratory System.

### HEALTH HAZARD INFORMATION

**Acute toxicity - oral:** Harmful if swallowed

**Acute toxicity - dermal:** Harmful in contact with skin

**Acute toxicity - inhalation:** Harmful if inhaled

**Skin corrosion / irritation:** Causes mild skin irritation

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

**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):** May cause drowsiness or dizziness.

**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 (gavage)	rat	Acute LD50	1710 - 3500 mg/kg (Calculated)
dermal	rabbit	Acute LD50	1250 - 2500 mg/kg (Calculated)
inhalation	rat	Acute LC50 4 hr	> 2.58 mg/l (Dust/Mist)

**Specific target organ toxicity (single exposure):** May cause drowsiness or dizziness.

#### LOCAL EFFECTS ON SKIN AND EYE

Acute Irritation	Skin	mild
Acute Irritation	eye	Causes serious damage

#### ALLERGIC SENSITIZATION

Sensitization	Skin	Not sensitizing
Sensitization	respiratory	No data

#### GENOTOXICITY

##### Assays for Gene Mutations

Ames Salmonella Assay Not mutagenic

#### OTHER INFORMATION

The toxicity data above are the results from a calculation of components with data from Allnex sponsored studies or available public literature.

## HAZARDOUS INGREDIENT TOXICITY DATA

1-Propanol has an oral (rat) LD50 of 1870 mg/kg and a dermal (rabbit) LD50 of 5040 mg/kg. The 4-hour LC-50 for n-propanol is 1000-5000 ppm (8-40 mg/L). Direct contact may produce mild skin irritation and moderate eye irritation. Acute inhalation overexposure to propanol vapors may initially produce irritation of the eyes and the respiratory system. Prolonged exposure will result in lessening of these symptoms due to a local anesthetic effect. Prolonged or repeated exposure to n-propanol may also produce headache, dizziness, confusion, staggered gait, and loss of consciousness.

Tetrabutylammonium bicarbonate has an acute oral (rat) LD50 and an acute dermal (rabbit) LD50 values of 550 mg/kg and 400 mg/kg respectively. 3 out of 10 rats died after single inhalation exposure (4hrs, aerosol) of rats up to 2.58 mg/L. Very slight skin irritation was observed upon dermal exposure. Eye irritation was observed in a rabbit study. No evidence of causing any sensitization was seen in a guinea pig study. This material has been shown to be non-genotoxic in both in vitro assays and animal studies. A subchronic study conducted in rats via the oral route has not revealed adverse effects up to 500mg/kg/day. However, at higher doses, mortality occurred and was accompanied by lesions in the esophagus and lungs. Other toxicological properties have not been investigated.

Tetrabutylammonium hydroxide has an acute oral (rat) LD50 value of 300-2000mg/kg. As this substance has a pH-value of 14, several endpoints could not be tested for reasons of animal welfare (acute dermal and inhalation toxicity, skin and eye irritation, sensitization). In vitro studies have not revealed the potential for genotoxic effects. Based on information obtained from structural analogues (salts), target organ toxicity and prenatal toxicity are not expected. Reproductive performances were not affected either.

The toxicological profile of tetrabutylammonium propylcarbonate has been derived from a structural analogue. This substance has an acute oral (rat) LD50 and an acute dermal (rabbit) LD50 values of 550 mg/kg and 400 mg/kg respectively. 3 out of 10 rats died after single inhalation exposure (4hrs, aerosol) of rats up to 2.58 mg/L. Very slight skin irritation was observed upon dermal exposure. Eye irritation was observed in a rabbit study. No evidence of causing any sensitization was seen in a guinea pig study. This material has been shown to be non-genotoxic in both in vitro assays and animal studies. A subchronic study conducted in rats via the oral route has not revealed adverse effects up to 500mg/kg/day. However, at higher doses, mortality occurred and was accompanied by lesions in the



esophagus and lungs. Other toxicological properties have not been investigated.

The toxicological profile of tetrabutylammonium ethylcarbonate has been derived from a structural analogue. This substance has an acute oral (rat) LD50 and an acute dermal (rabbit) LD50 values of 550 mg/kg and 400 mg/kg respectively. 3 out of 10 rats died after single inhalation exposure (4hrs, aerosol) of rats up to 2.58 mg/L. Very slight skin irritation was observed upon dermal exposure. Eye irritation was observed in a rabbit study. No evidence of causing any sensitization was seen in a guinea pig study. This material has been shown to be non-genotoxic in both in vitro assays and animal studies. A subchronic study conducted in rats via the oral route has not revealed adverse effects up to 500mg/kg/day. However, at higher doses, mortality occurred and was accompanied by lesions in the esophagus and lungs. Other toxicological properties have not been investigated.

Ethanol has acute oral (rat) and dermal (rabbit) LD50 values of 10470 mg/kg and > 20,000 mg/kg, respectively. The 4-hour inhalation LC50 for ethanol in rats is 117-125 mg/l. Inhalation overexposure may cause respiratory tract irritation. Ethanol is a potent teratogen associated with abnormal fetal formation, growth retardation, neurological damage, and behavioral alterations in children with fetal alcohol syndrome. Chronic ingestion of ethanol may cause damage to the liver, heart and gastrointestinal tract. In a dominant lethal assay, male mice treated with ethanol over a three day period showed significant decrease in average litter size along with increased incidence of dead implants. Ethanol is reported to have shown positive results in in vivo and in vitro screening tests for mutagenicity. Direct contact with ethanol may cause moderate eye irritation and mild skin irritation. Ethanol may cause central nervous system depression that causes stupor, coma and eventually death if ingested in excessive quantities. The literature shows that due to synergistic and potentiating effects, the toxicity of ethanol may be enhanced by exposure to halogenated hydrocarbons and Manganese.

Component / CAS No.	Stage One Chemicals
1-Propanol 71-23-8	Tier II Final (Human Health);Tier I Final (Environment) NICNAS holds data
Ethanol 64-17-5	Tier II Final (Human Health);Tier I Final (Environment) NICNAS holds data;Concern has been raised overseas

## 12. ECOLOGICAL INFORMATION

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

Based on allnex sponsored studies.

### ECOTOXICITY

Not available

### ALGAE TEST RESULTS

**Test:** OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test

**Duration:** 72 hr

**Species:** Pseudokirchneriella subcapitata

4.55 mg/l EC50

0.23 mg/l EC10

### FISH TEST RESULTS

**Test:** Acute toxicity, freshwater (OECD 203)

**Duration:** 96 hr.

**Species:** Rainbow Trout (*Oncorhynchus mykiss*)

> 2000 mg/l LC50

**INVERTEBRATE TEST RESULTS****Test:** Acute Immobilization (OECD 202)**Duration:** 48 hr**Species:** Water Flea (*Daphnia magna*)

4.7 mg/l EC50

**BIOACCUMULATIVE POTENTIAL**

Not available

**PERSISTENCE AND DEGRADABILITY**

Not available

**DEGRADATION****Test:** Closed Bottle (OECD 301D)**Duration:** 28 day **Procedure:** Ready biodegradability

12.5 %

**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
1-Propanol (71-23-8)	LC50 = 4480 mg/L - <i>Pimephales promelas</i> (96h)
Tetrabutylammonium bicarbonate (17351-62-1)	LC50 > 2000 mg/L (nominal) - Rainbow trout - 96 hrs
Tetrabutylammonium propylcarbonate (1338579-13-7)	Not available
Tetrabutylammonium ethylcarbonate (478796-04-2)	Not available
Ethanol (64-17-5)	LC50 12.0 - 16.0 mL/L - <i>Oncorhynchus mykiss</i> (96h) LC50 > 100 mg/L - <i>Pimephales promelas</i> (96h) LC50 13400 - 15100 mg/L - <i>Pimephales promelas</i> (96h)

Component / CAS No.	Toxicity to Water Flea
1-Propanol (71-23-8)	EC50 = 3642 mg/L - <i>Daphnia magna</i> (48h) EC50 3339 - 3977 mg/L - <i>Daphnia magna</i> (48h)
Tetrabutylammonium bicarbonate (17351-62-1)	EC50 = 4.7 mg/L (measured) - <i>Daphnia magna</i> - 48hrs
Tetrabutylammonium propylcarbonate	Not available

(1338579-13-7)	
Tetrabutylammonium ethylcarbonate (478796-04-2)	Not available
Ethanol (64-17-5)	LC50 9268 - 14221 mg/L - Daphnia magna (48h) EC50 = 2 mg/L - Daphnia magna (48h)

Component / CAS No.	Toxicity to Algae
1-Propanol (71-23-8)	Not available
Tetrabutylammonium bicarbonate (17351-62-1)	EC50 = 4.55 mg/L (nominal) - Pseudokirchneriella subcapitata - 72hrs EC10 = 0.23 mg/L (nominal) - Pseudokirchneriella subcapitata - 72hrs
Tetrabutylammonium propylcarbonate (1338579-13-7)	Not available
Tetrabutylammonium ethylcarbonate (478796-04-2)	Not available
Ethanol (64-17-5)	Not available

Component / CAS No.	Partition coefficient
1-Propanol (71-23-8)	0.2
Tetrabutylammonium bicarbonate (17351-62-1)	Not available
Tetrabutylammonium propylcarbonate (1338579-13-7)	Not available
Tetrabutylammonium ethylcarbonate (478796-04-2)	Not available
Ethanol (64-17-5)	-0.35

## 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 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.

### Australia (ADG)

Dangerous Goods? X

PROPER SHIPPING NAME: FLAMMABLE LIQUID, N.O.S.

Hazard Class: 3

UN Number: UN1993

Packing Group: III

Transport Label Required: Flammable liquid

TECHNICAL NAME (N.O.S.): 1-PROPANOL  
HAZCHEM Code: •3Y  
IERG: 14

## IMO

Dangerous Goods? X  
UN PROPER SHIPPING NAME: FLAMMABLE LIQUID, N.O.S.  
Transport Hazard Class: 3  
UN Number: UN1993  
Packing Group: III  
Transport Label Required: Flammable liquid  
Marine Pollutant  
TECHNICAL NAME (N.O.S.): 1-PROPANOL

## ICAO / IATA

Dangerous Goods? X  
UN PROPER SHIPPING NAME: FLAMMABLE LIQUID, N.O.S.  
Transport Hazard Class: 3  
Packing Group: III  
UN Number: UN1993  
Transport Label Required: Flammable liquid  
TECHNICAL NAME (N.O.S.): 1-PROPANOL

## SPECIAL PRECAUTIONS FOR USER

Protect from freezing and protect against external heat sources above +30°C.

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## 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

### Standard for Uniform Scheduling of Medicines and Poisons (SUSMP)

Classified as a scheduled poison according to the Standard for Uniform Scheduling of Medicines and Poisons (SUSMP)

**Poison Schedule Number:** S5

### Inventory Information

**Australia:** This product contains a chemical that is subject to specific information requirements in Australia as set forth by the industrial chemical Bills 2017 (IC Bill).

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

**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. This substance may cause: (i) skin irritation. (ii) respiratory complications. When using this substance: (i) avoid skin contact. (ii) avoid breathing the substance. (iii) avoid ingestion. (iv) use respiratory

protection. (v) use skin protection. This substance may be: (i) toxic to fish; (ii) toxic to aquatic organism. Notice to users: (i) minimize releases to water. This product is subject to TSCA 12(b) Export Notification (P16-0255, Tetrabutylammonium bicarbonate; P16-0257, Tetrabutylammonium ethylcarbonate; P16-0258; Tetrabutylammonium propylcarbonate). This product contains substances subject to the following Significant New Use Rules (SNUR): 40 CFR Section 721.10999; 721.11001; 721.11002.

**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:** One or more components of this product are NOT included on the Japanese (ENCS and/or ISHL) inventories.

**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:** One or more components of this product are NOT included on the Philippine (PICCS) inventory.

**Taiwan:** One or more components of this product are NOT included in the Taiwan chemical substance inventory (TCSI).

**Switzerland:** All components of this product are exempt from the new substance notification requirements for Switzerland (SR 813.11 art. 24-26).

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## 16. OTHER INFORMATION

**Reasons for Issue:** Revised Section 9

**Date Prepared:** 12-Oct-2022

**Date of last significant revision:** 06-Mar-2022

### References

Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice

Australian Code for the Transport of Dangerous Goods by Road & Rail

American Conference of Industrial Hygienists (ACGIH)

Globally Harmonised System of classification and labelling of chemicals (GHS)

Regulation (EC) No 1005/2009 of the European Parliament and of the Council on substances that deplete the ozone layer

Regulation (EC) No 850/2004 and amendments of the European Parliament and of the Council on persistent organic pollutants

Workplace Exposure Standards for Airborne Contaminants, Safe Work Australia

### Component - Hazard Statements

1-Propanol

H225 - Highly flammable liquid and vapour.

H318 - Causes serious eye damage.

H336 - May cause drowsiness or dizziness.

Tetrabutylammonium bicarbonate

H302 - Harmful if swallowed.

H311 - Toxic in contact with skin.

H316 - Causes mild skin irritation.

H332 - Harmful if inhaled.

H336 - May cause drowsiness or dizziness.

H401 - Toxic to aquatic life.

H411 - Toxic to aquatic life with long lasting effects.

Tetrabutylammonium propylcarbonate

H302 - Harmful if swallowed.

H311 - Toxic in contact with skin.

H319 - Causes serious eye irritation.

H371 - May cause damage to organs.

H401 - Toxic to aquatic life.

H411 - Toxic to aquatic life with long lasting effects.

Tetrabutylammonium ethylcarbonate

H302 - Harmful if swallowed.

H311 - Toxic in contact with skin.

H316 - Causes mild skin irritation.

H332 - Harmful if inhaled.

H336 - May cause drowsiness or dizziness.

H401 - Toxic to aquatic life.

H411 - Toxic to aquatic life with long lasting effects.

Ethanol

H225 - Highly flammable liquid and vapour.

H316 - Causes mild skin irritation.

H319 - Causes serious eye irritation.

## Emergency phone numbers for other regions

### Asia Pacific

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: 0120 015 230 (toll free) (Carechem24)

Korea: +82 2 3479 8401 (Carechem 24)

Malaysia: +60 3 6207 4347 (Carechem 24)

New Zealand: +64 0800 803 002 (Allnex New Zealand)

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)

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