

# SAFETY DATA SHEET



Revision date: 09-Oct-2023

Revision Number 1

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

### Product identifier

**Product Name** Metalox Etch  
**Product Code(s)** 000000067074

### Other means of identification

**UN number** 1263

### Recommended use of the chemical and restrictions on use

**Recommended use** Primer.  
**Uses advised against** No information available

### Supplier

Liquimix Pty Ltd  
ABN: 32 062 887 585  
Street Address: 24 Rosa Place  
Richlands QLD 4077  
Australia

Telephone Number: +61 7 3277 6655

### Emergency telephone number

Emergency telephone number **1 800 033 111 (ALL HOURS)**

Please ensure you refer to the limitations of this Safety Data Sheet as set out in the "Other Information" section at the end of this Data Sheet.

## 2. HAZARDS IDENTIFICATION

### GHS Classification

Classified as a hazardous chemical in accordance with the criteria of Safe Work Australia - Globally Harmonized System (GHS).

Classified as dangerous goods in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG).

<b>Flammable liquids</b>	Category 2
<b>Acute toxicity - Oral</b>	Category 4
<b>Skin corrosion/irritation</b>	Category 2
<b>Serious eye damage/eye irritation</b>	Category 1
<b>Skin sensitization</b>	Category 1
<b>Reproductive toxicity</b>	Category 1A
<b>Specific target organ toxicity (single exposure)</b>	Category 3
<b>Specific target organ toxicity (repeated exposure)</b>	Category 2

**SIGNAL WORD**

Danger

**Label elements**

Flame  
Corrosion  
Exclamation mark  
Health hazard



**Hazard statements**

H225 - Highly flammable liquid and vapor  
H302 - Harmful if swallowed  
H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H318 - Causes serious eye damage  
H332 - Harmful if inhaled  
H335 - May cause respiratory irritation  
H336 - May cause drowsiness or dizziness

**Precautionary Statements - Prevention**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
Keep container tightly closed  
Ground and bond container and receiving equipment  
Use explosion-proof electrical, ventilating, lighting equipment  
Use non-sparking tools  
Take action to prevent static discharges  
Wear protective gloves / protective clothing / eye protection / face protection  
Avoid breathing dust / fume / gas / mist / vapours / spray  
Do not eat, drink or smoke when using this product  
Use only outdoors or in a well-ventilated area  
Wash hands and face thoroughly after handling  
Contaminated work clothing should not be allowed out of the workplace  
Avoid release to the environment

**Precautionary Statements - Response**

IF exposed:  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor  
IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell  
Use dry sand, dry chemical or alcohol-resistant foam to extinguish  
Collect spillage

**Precautionary Statements - Storage**

Store in a well-ventilated place. Keep cool

**Precautionary Statements - Disposal**

Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

**Other hazards which do not result in classification**

Poisons Schedule (SUSMP) 5

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Weight-%
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Isopropyl alcohol	67-63-0	20 - 40%
Toluene	108-88-3	20 - 40%
Phosphoric acid	7664-38-2	< 10%
n-Butyl alcohol	71-36-3	< 10%
Vinyl butyral resin	-	< 10%
Bisphenol A, epichlorohydrin polymer	25068-38-6	< 10%
Silica	7631-86-9	< 5%
Non-hazardous ingredients	Proprietary	Balance

#### 4. FIRST AID MEASURES

##### Description of first aid measures

<b>General advice</b>	Take a copy of the Safety Data Sheet when going for medical treatment.
<b>Inhalation</b>	Remove to fresh air and keep at rest in a position comfortable for breathing. If breathing has stopped, give artificial respiration. Get medical attention immediately. 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.
<b>Eye contact</b>	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. Immediate medical attention is required.
<b>Skin contact</b>	Wash with soap and water. Take off contaminated clothing and wash before reuse. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Do NOT induce vomiting. Get medical attention.

##### Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

##### Indication of any immediate medical attention and special treatment needed

**Note to physicians** Treat symptomatically.

#### 5. FIRE FIGHTING MEASURES

##### Suitable Extinguishing Media

**Suitable Extinguishing Media** CO2, dry chemical, dry sand, alcohol-resistant foam.

**Unsuitable extinguishing media** Solid water jet/stream may scatter and spread the fire.

##### Specific hazards arising from the chemical

**Specific hazards arising from the chemical** Flammable. Direct contact with flame or high heat may cause ignition.

**Hazardous combustion products** Carbon oxides. Hydrocarbons.

##### Special protective actions for fire-fighters

**Special protective equipment for** Firefighters should wear self-contained breathing apparatus and full firefighting turnout

fire-fighters gear. Use personal protection equipment.

Hazchem code •3YE

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Extremely slippery when spilled.

**For emergency responders** Use personal protection recommended in Section 8.

### Environmental precautions

**Environmental precautions** See Section 12 for additional Ecological Information.

### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

**Methods for cleaning up** Take up with inert, damp, non-combustible material using clean non-sparking tools and place into loosely covered plastic containers for later disposal. Prevent product and washings from entering drains, sewers or surface water due to high toxicity to aquatic organisms.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible materials** Acids. Alkalis. Oxidizing agents. Halogenated solvents. Polystyrene.

**Poisons Schedule (SUSMP)** 5

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

**Exposure Limits** No value assigned for this specific material by Safe Work Australia. However, Workplace Exposure Standard(s) for constituent(s):

Isopropyl alcohol (Isopropanol): 8hr TWA = 983 mg/m<sup>3</sup> (400 ppm), 15 min STEL = 1230 mg/m<sup>3</sup> (500 ppm)

Toluene: 8hr TWA = 191 mg/m<sup>3</sup> (50 ppm), 15 min STEL = 574 mg/m<sup>3</sup> (150 ppm), Sk

Phosphoric acid: 8hr TWA = 1 mg/m<sup>3</sup>, 15 min STEL = 3 mg/m<sup>3</sup>

n-Butyl alcohol (n-Butanol): Peak Limitation = 152 mg/m<sup>3</sup> (50 ppm), Sk  
Silica gel: 8hr TWA = 10 mg/m<sup>3</sup>

As published by Safe Work Australia Workplace Exposure Standards for Airborne Contaminants.

TWA - The time-weighted average airborne concentration of a particular substance when calculated over an eight-hour working day, for a five-day working week.

STEL (Short Term Exposure Limit) - the airborne concentration of a particular substance calculated as a time-weighted average over 15 minutes, which should not be exceeded at any time during a normal eight hour work day. According to current knowledge this concentration should neither impair the health of, nor cause undue discomfort to, nearly all workers.

'Sk' (skin) Notice - absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur.

These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

### Appropriate engineering controls

#### Engineering controls

Apply technical measures to comply with the occupational exposure limits.

If in the handling and application of this material, safe exposure levels could be exceeded, the use of engineering controls such as local exhaust ventilation must be considered and the results documented. If achieving safe exposure levels does not require engineering controls, then a detailed and documented risk assessment using the relevant Personal Protective Equipment (PPE) (refer to PPE section below) as a basis must be carried out to determine the minimum PPE requirements.

### Individual protection measures, such as personal protective equipment

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES.



#### Eye/face protection

Wear safety glasses with side shields (or goggles).

#### Skin and body protection

Overalls. Preferably wear suitable anti-static work clothes and work shoes.

#### Hand protection

Protective gloves.

#### Respiratory protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. If determined by a risk assessment an inhalation risk exists, wear an organic vapour respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

#### Environmental exposure controls

Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

Physical state	Liquid
Appearance	No information available
Color	Coloured
Odor	Slight
Odor threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No data available	None known
pH (as aqueous solution)	No data available	None known
Melting point / freezing point	No data available	None known
Boiling point / boiling range	82 - 134°C	None known
Flash point	13°C	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	15%	
Lower flammability or explosive limits	1.0%	
Vapor pressure	4.4 kPa	None known
Vapor density	No data available	None known
Relative density	0.80 - 0.96 kg/L	None known
Water solubility	Immiscible in water	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	> 200°C	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	150 - 300 mPa s	None known

**Other information****10. STABILITY AND REACTIVITY****Reactivity**

Reactivity No information available.

**Chemical stability**

Stability Stable under normal conditions.

**Explosion data**

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

**Possibility of hazardous reactions**

Possibility of hazardous reactions None under normal processing.

**Conditions to avoid**

Conditions to avoid Keep away from open flames, hot surfaces and sources of ignition.

**Incompatible materials**

Incompatible materials Acids. Alkalis. Oxidizing agents. Halogenated solvents. Polystyrene.

**Hazardous decomposition products**

Hazardous decomposition products None known based on information supplied.

**11. TOXICOLOGICAL INFORMATION****Acute toxicity****Information on likely routes of exposure****Product Information**

<b>Inhalation</b>	Causes headache, drowsiness or other effects to the central nervous system.
<b>Eye contact</b>	Causes serious eye damage.
<b>Skin contact</b>	Causes skin irritation. Prolonged or repeated contact may dry skin and cause irritation.
<b>Ingestion</b>	Gastrointestinal discomfort. Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache).

**Symptoms** No information available.**Numerical measures of toxicity - Product Information**

No information available

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Isopropyl alcohol	= 1870 mg/kg ( Rat )	= 4059 mg/kg ( Rabbit )	= 72600 mg/m <sup>3</sup> ( Rat ) 4 h
Toluene	= 2600 mg/kg ( Rat )	= 12000 mg/kg ( Rabbit )	= 12.5 mg/L ( Rat ) 4 h
Phosphoric acid	= 1530 mg/kg ( Rat )	= 2740 mg/kg ( Rabbit )	> 850 mg/m <sup>3</sup> ( Rat ) 1 h
n-Butyl alcohol	= 700 mg/kg ( Rat ) = 790 mg/kg ( Rat )	= 3402 mg/kg ( Rabbit ) = 3400 mg/kg ( Rabbit )	> 8000 ppm ( Rat ) 4 h
Bisphenol A, epichlorohydrin polymer	= 11400 mg/kg ( Rat )	-	-
Silica	= 7900 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 2.2 mg/L ( Rat ) 1 h

See section 16 for terms and abbreviations

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Skin corrosion/irritation</b>	Causes skin irritation. May cause dermatitis.
<b>Serious eye damage/eye irritation</b>	Causes serious eye damage.
<b>Respiratory or skin sensitization</b>	May cause an allergic skin reaction.
<b>Germ cell mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	No information available.
<b>Reproductive toxicity</b>	No information available.
<b>STOT - single exposure</b>	May cause respiratory irritation.

**STOT - repeated exposure** Causes damage to organs through prolonged or repeated exposure.

**Aspiration hazard** No information available.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Isopropyl alcohol	EC50: >1000mg/L (96h, <i>Desmodesmus subspicatus</i> ) EC50: >1000mg/L (72h, <i>Desmodesmus subspicatus</i> )	LC50: =9640mg/L (96h, <i>Pimephales promelas</i> ) LC50: =11130mg/L (96h, <i>Pimephales promelas</i> ) LC50: >1400000µg/L (96h, <i>Lepomis macrochirus</i> )	-	EC50: =13299mg/L (48h, <i>Daphnia magna</i> )
Toluene	EC50: >433mg/L (96h, <i>Pseudokirchneriella subcapitata</i> ) EC50: =12.5mg/L (72h, <i>Pseudokirchneriella subcapitata</i> )	LC50: 15.22 - 19.05mg/L (96h, <i>Pimephales promelas</i> ) LC50: =12.6mg/L (96h, <i>Pimephales promelas</i> ) LC50: 5.89 - 7.81mg/L (96h, <i>Oncorhynchus mykiss</i> ) LC50: 50.87 - 70.34mg/L (96h, <i>Poecilia reticulata</i> ) LC50: 14.1 - 17.16mg/L (96h, <i>Oncorhynchus mykiss</i> ) LC50: =5.8mg/L (96h, <i>Oncorhynchus mykiss</i> ) LC50: 11.0 - 15.0mg/L (96h, <i>Lepomis macrochirus</i> ) LC50: =54mg/L (96h, <i>Oryzias latipes</i> ) LC50: =28.2mg/L (96h, <i>Poecilia reticulata</i> )	-	EC50: 5.46 - 9.83mg/L (48h, <i>Daphnia magna</i> ) EC50: =11.5mg/L (48h, <i>Daphnia magna</i> )
n-Butyl alcohol	EC50: >500mg/L (96h, <i>Desmodesmus subspicatus</i> ) EC50: >500mg/L (72h, <i>Desmodesmus subspicatus</i> )	LC50: 1730 - 1910mg/L (96h, <i>Pimephales promelas</i> ) LC50: =1740mg/L (96h, <i>Pimephales promelas</i> ) LC50: 100000 - 500000µg/L (96h, <i>Lepomis macrochirus</i> ) LC50: =1910000µg/L (96h, <i>Pimephales promelas</i> )	-	EC50: =1983mg/L (48h, <i>Daphnia magna</i> ) EC50: 1897 - 2072mg/L (48h, <i>Daphnia magna</i> )
Silica	EC50: =440mg/L (72h, <i>Pseudokirchneriella subcapitata</i> )	LC50: =5000mg/L (96h, <i>Brachydanio rerio</i> )	-	EC50: =7600mg/L (48h, <i>Ceriodaphnia dubia</i> )

### Persistence and degradability

**Persistence and degradability** Not readily biodegradable.



**Bioaccumulative potential**

**Bioaccumulation** Refer to component information below.

**Component Information**

Chemical name	Partition coefficient
Isopropyl alcohol	0.05
Toluene	2.7
n-Butyl alcohol	0.785

**Mobility**

**Mobility in soil** No information available.

**Other adverse effects****Endocrine Disruptor Information**

Chemical name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Endocrine disrupting potential
Bisphenol A, epichlorohydrin polymer	Group III Chemical	-	-

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods**

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Dispose of in accordance with federal, state and local regulations. Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

**14. TRANSPORT INFORMATION****ADG**

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; DANGEROUS GOODS.

**UN number** 1263  
**Proper shipping name** PAINT RELATED MATERIAL  
**Hazard class** 3  
**Packing group** II  
**Hazchem code** •3YE

**IATA**

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; DANGEROUS GOODS.

**UN number** 1263  
**UN proper shipping name** PAINT RELATED MATERIAL  
**Transport hazard class(es)** 3  
**Packing group** II

**IMDG**

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS.

**UN number** 1263  
**UN proper shipping name** PAINT RELATED MATERIAL

Transport hazard class(es) 3  
Packing group II  
IMDG EMS Fire F-E  
IMDG EMS Spill S-E

**15. REGULATORY INFORMATION**

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

**National regulations**

**Australia**

Classified as a hazardous chemical in accordance with the criteria of Safe Work Australia - Globally Harmonized System (GHS).

Classified as dangerous goods in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG).

See section 8 for national exposure control parameters

**Poisons Schedule (SUSMP) 5**

Chemical name	National pollutant inventory
Isopropyl alcohol - 67-63-0	20 MW Threshold category 2b total 60000 MWH Threshold category 2b total 1 tonne/h Threshold category 2a total 25 tonne/yr Threshold category 1a total 400 tonne/yr Threshold category 2a total 2000 tonne/yr Threshold category 2b total
Toluene - 108-88-3	10 tonne/yr Threshold category 1
Phosphoric acid - 7664-38-2	10 tonne/yr Threshold category 1
n-Butyl alcohol - 71-36-3	20 MW Threshold category 2b total 60000 MWH Threshold category 2b total 1 tonne/h Threshold category 2a total 25 tonne/yr Threshold category 1a total 400 tonne/yr Threshold category 2a total 2000 tonne/yr Threshold category 2b total

**International Inventories**

**AIIC** All the constituents of this material are listed on the Australian Inventory of Industrial Chemicals.

**Legend:**

**AIIC- Australian Inventory of Industrial Chemicals**

**International Regulations**

**The Montreal Protocol on Substances that Deplete the Ozone Layer** Not applicable

**The Stockholm Convention on Persistent Organic Pollutants** Not applicable

**The Rotterdam Convention** Not applicable

**16. OTHER INFORMATION**

Supplier Safety Data Sheet 08/ 2021

**Reason(s) For Issue:** First Issue Primary SDS

**Issuing Date:** 09-Oct-2023

This Safety Data Sheet has been prepared by Ixom Operations Pty Ltd (Toxicology and SDS Services).

**Revision Note:**

The symbol (\*) in the margin of this SDS indicates that this line has been revised.

**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		

**Key literature references and sources for data used to compile the SDS**

EPA (Environmental Protection Agency)  
Acute Exposure Guideline Level(s) (AEGl(s))  
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
U.S. Environmental Protection Agency High Production Volume Chemicals  
Food Research Journal  
Hazardous Substance Database  
International Uniform Chemical Information Database (IUCLID)  
Japan GHS Classification  
Australian Industrial Chemicals Introduction Scheme (AICIS)  
NIOSH (National Institute for Occupational Safety and Health)  
National Library of Medicine's ChemID Plus (NLM CIP)  
National Library of Medicine's PubMed database (NLM PUBMED)  
National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
Organization for Economic Co-operation and Development Screening Information Data Set  
RTECS (Registry of Toxic Effects of Chemical Substances)  
World Health Organization

**Disclaimer**

**This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Liquimix Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.**

**If clarification or further information is needed, the user should contact their Liquimix representative or Liquimix Pty Ltd at the contact details on page 1.**

**Liquimix Pty Ltd's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.**

**End of Safety Data Sheet**