

1 - IDENTIFICATION OF PRODUCT AND COMPANY

PRODUCT NAME : ORASTAR 401

PRODUCT CODE NUMBER :

NAME OF MANUFACTURER/SUPPLIER :

VICTORIA LUB PTY LTD
FACTORY 24/ 29-39 KIRKHAM ROAD WEST
KEYSBOROUGH VIC 3173
TEL: (61 3) 9701 5373
FAX: (61 3) 9701 5532
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2 - COMPOSITION /INFORMATION ON INGREDIENTS

Hazardous components

Component	CAS-No	Weight %	EC-No.	Classification
TRIETHANOLAMINE	102-71-6	5 - 10	203-049-8	Xi, R36/38
SEVERELY-HYDROTREATED	64742-52-5	3 – 7	265-155-0	T, Xi, R20, R36
NAPHTHENIC PETROLEUM DISTILLATES				
MONOETHANOLAMINE	141-43-5	1 - 5	205-483-3	Xi, Xn, R20, R36/37/38

These ingredients may contribute to the acute product hazards listed under the Potential Health Effects section. Other substances, not hazardous under the OSHA Hazard Communication Standard, may be present. Further composition information may be available to health professionals as provided in the Standard.

3 – HAZARDS IDENTIFICATION

Product

Product at Use Dilution

Inhalation:	Not Applicable	Extended exposure to mist may cause upper respiratory irritation
Eye Contact:	Product is a primary eye irritant.	Will cause stinging sensation in the eye.
Skin Contact:	Product may be a primary skin irritant.	Not irritating to the skin when used as directed and good personal hygiene is practiced.
Ingestion:	Not orally toxic.	Swallowing small quantities may cause diarrhoea, nausea or vomiting.
Product R-phrases(s): R36	Irritating to eyes.	
Product S-phrases(s): S24/25 S36/37/39	Avoid contact with skin and eyes. Wear suitable protective clothing, gloves and eye/face protection.	

Emergency Overview

Product is alkaline. Product may be a primary skin irritant. Product is a primary eye irritant. Highway spills could result in slippery conditions. No other significant health



effects are associated with this material.

4 – FIRST AID MEASURES

Skin Contact	For skin contact flush with large amounts of water while removing contaminated clothing. Remove contaminated shoes and clothing and launder before reuse. If irritation persists, get medical attention. Diluted product is not irritating to the skin when used as recommended and good personal hygiene is practiced.
Eyes	In case of eye contact, flush immediately with running water for at least 15 minutes, and get prompt medical attention.
Inhalation	Inhalation can occur in applications where high mist levels are generated. OSHA has set a PEL of 15 mg/m ³ for any airborne particulate as a nuisance level of exposure. NIOSH has set a REL of 0.5 mg/m ³ for metalworking fluid mist. If symptoms are experienced, remove source of contamination or move victim to fresh air. If symptoms persist, get medical attention.
Ingestion	If the material is swallowed, get immediate medical attention or advice. DO NOT INDUCE VOMITING. Give two glasses of water or milk. Immediately contact a physician and obtain treatment. Swallowing small quantities of diluted product may cause nausea, diarrhoea or abdominal distress.

5 – FIRE FIGHTING MEASURES

Extinguishing Media	Not Applicable
Hazardous Combustion Products	Smoke, fumes, oxides of nitrogen, and oxides of carbon

HMIS RATINGS

Health	1
Flammability Classification	0
Reactivity	0

NFPA RATINGS

Health	1
Flammability Classification	0
Reactivity	0

Flash Point:	Not Applicable
Upper Explosive Limit:	Not Applicable
Lower Explosive Limit:	Not Applicable

6 – ACCIDENTAL RELEASE MEASURES

Containment Procedures

Contain the spill, collect on absorbent material, and discard as dictated by Federal, state and local regulations that may apply. Flush area thoroughly with water.

7 – HANDLING AND STORAGE

Handling

Avoid all contact of product with eyes or skin. Wash thoroughly after handling. Do not swallow. Do not store product concentrate in direct sunlight or elevated temperatures. Use only as recommended. If frozen, product separates. Thaw completely at room temperature and stir thoroughly prior to use.

Other Precautions

Contains amines. Do not add sodium nitrite or other nitrosating agents to this product because suspected cancer-causing nitrosamines may be formed.

8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Personal protective equipment

Ventilation

For most applications, normal shop ventilation is adequate. However, when high mist levels are generated or where machines are close together or ventilation is inadequate, operators may experience respiratory irritation. For such applications, use of splash guards or mist collectors is recommended.

Eye protection

Proper metalworking plant eye protection required when handling product concentrate.

Other protective clothing or equipment

Use effective metalworking plant protective clothing as appropriate.

Respiratory protection

Product is not volatile.

In applications where time-weighted exposures are 0.5 to 5 mg/m³, mist reduction through improved ventilation, mist collection or process modification is recommended by NIOSH. Where this is not possible, NIOSH commends the use of any air purifying, half-mask respirator including a disposable respirator, equipped with any P- or R-series particulate filter. If the average exposure will exceed 5 mg/m³, NIOSH recommends use of a powered, air-purifying respirator equipped with a hood or helmet and a HEPA filter. If respiratory problems are present when mist levels are < 0.5 mg/m³, respiratory protection should be based on the individual recommendation of a qualified health care provider.

Work / Hygiene Practices

Good personal hygiene should always be followed.

Protective Gloves

Impervious gloves, such as nitrile gloves, are recommended when handling product concentrate.

Medical Conditions generally aggravated by exposure

May aggravate existing skin irritation where further defatting or skin penetration could occur.

Mild skin irritation (redness and dryness of hands) may be experienced when the diluted product has been contaminated by certain oils, by dissolved metals, or when mix ratio is too strong. When problems occur, use of water-resistant barrier creams may be a temporary control measure.

When used in applications generating high levels of mist, operator exposure can be minimized by proper ventilation, use of mist collectors or splash guards, as appropriate. If there is doubt about actual mist levels present, monitoring should be conducted.

Repeated excessive exposures to high amounts of triethanolamine may cause liver and kidney effects.

Signs and symptoms of exposure

Acute

Eye injury may result from contact with product. Skin irritation can result from improper use and handling of product.

9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance / Odour	Clear/Chemical
pH (Concentrate)	10.2
pH (Mix)	9.0 @ 5%
Vapour Pressure	Not Available
Vapour Density	Not Available
Boiling Point/Range	100 °C (212 °F)
Melting Point/Range	Not Available

Freezing Point	Not Available
Solubility (water)	100 % Miscible
Specific Gravity	1.058
Flash Point	Not Applicable
Upper Explosive Limit:	Not Applicable
Lower Explosive Limit:	Not Applicable
Evaporation Rate	Like water when diluted
Viscosity	Not Available
Recommended Starting Dilution	5 %
Volatile Organic Content (by ASTM D2369)	8 %

10 – STABILITY AND REACTIVITY

Conditions to avoid	Use as directed.
Materials to avoid	Avoid contact with strong acids or oxidizers to product.
Combustion Products	Smoke, fumes, oxides of nitrogen, and oxides of carbon
Stability	Stable under normal conditions.
Hazardous Polymerization	Will not occur.

11 – TOXICOLOGICAL INFORMATION

Conc. (%) Dermal	Acute Oral Toxicity (g/kg) (LD50-Rats)	Acute Inhalation Toxicity (mg/L) (Rats)	Acute Eye Irritation (Rabbits)	Primary Skin Irritation (Rabbits)	Corrosivity (Rabbits)	Acute (LD50 - Rabbits)
100	> 5	Not Determined	Positive	Maybe	Negative	> 5

12 – ECOLOGICAL INFORMATION

Not Available

13 – DISPOSAL RECOMMENDATIONS

For Used Product

Disposal procedures must comply with local, county, state and Federal regulations. For assistance call Victoria Lub Pty Ltd. 03 9701 5373.

For Unused Product

Product is not a hazardous waste as defined under 40 CFR 261. Contact Victoria Lub Pty Ltd on 03 9701 5373 for assistance.

Empty Containers

Empty containers will contain a residue which is not considered a hazardous waste under RCRA regulations. Drums can be drained to a "drip dry" condition by inversion and can be offered for recycling or scrap.

14 – TRANSPORT INFORMATION

U.S. D.O.T. LAND

Hazardous Materials Description and Proper Shipping Name (49 CFR 172.101)

Not a Hazardous Material

U.S. Harmonized Tariff Code: 3403.99.0000



U.S. D.O.T. AIR OR VESSEL

Hazardous Materials Description and Proper Shipping Name (49 CFR 172.101)
Not a Hazardous Material

IATA

Proper shipping name NOT A HAZARDOUS MATERIAL

15 – REGULATORY INFORMATION

16 – OTHER INFORMATION

