



2/16-18 Barry Road
Chipping Norton NSW 2170

Telephone: 1300 655 441
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PRODUCT: ZORANGE **Version: 1** **Date of issue: JANUARY 2019**
CODE: Z6504B (5 litre) Z6504B (15 litre) 5035C (200 litre) **Page 1 of 7**

CHEMICAL NATURE

Water solution solvent, detergent and other ingredients.

1. IDENTIFICATION OF THE MATERIAL AND THE SUPPLIER

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|-----|---------------------------------|--|
| 1.1 | Product Name: | Zorange Citrus all-purpose cleaner |
| 1.2 | UN Proper Shipping Name: | None allocated |
| 1.3 | Recommended Use: | General detergent degreaser |
| 1.4 | Supplier: | Nu-Line Resources Pty Ltd |
| 1.5 | A.B.N | 22 115 045 773 |
| 1.6 | Address (Australia): | Unit 2/16-18 Barry Road CHIPPING NORTON NSW 2170 |
| 1.7 | Telephone Number: | (02) 9755 2125 |
| 1.8 | Emergency Telephone: | Poisons Information Centre Australia: 13 11 26 |

2. HAZARDOUS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification under CLP: Skin Corr. 1A: H314; Aquatic Chronic 3: H412; -: EUH208

Most important adverse effects: Contains limonene (citrus dulcis). May produce an allergic reaction. Causes severe skin burns and eye damage. Harmful to aquatic life with long lasting effects.

2.2 LABEL ELEMENTS

Label elements:

Hazard statements: EUH208: Contains limonene (citrus dulcis). May produce an allergic reaction.

H314: Causes severe skin burns and eye damage.

H412: Harmful to aquatic life with long lasting effects.

Signal words: Danger

Hazard pictograms: GHS05: Corrosion

Precautionary statements: P102: Keep out of reach of children.

P282: Wear eye protection.

P280: Wear protective gloves.

P260: Do not breathe spray.

P301+330+331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P314: Get medical attention if you feel unwell.

P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P332+313: If skin irritation occurs: Get medical attention.

P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+313: If eye irritation persists: Get medical attention.

P362: Take off contaminated clothing.

2.2 OTHER HAZARDS

PBT: This product is not identified as a PBT/vPvB substance.

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3. COMPOSITION / INFORMATION ON INGREDIENTS

3.2 MIXTURES

Hazardous ingredients:

ISOTRIDECANOETHOXYLATE,POLYMER(8 MOLE EO AVERAGE)

EINECS	CAS	PBT / WEL	CLP Classification	Percent
-	69011-36-5	-	Acute Tox. 4: H302; Eye Dam. 1: H318	1-10%

C9/11 A, >3-6 EO PREDOMINANTLY LINEAR (DID 21)

POLYMER	160875-66-1	-	Eye Dam. 1: H318	1-10%
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2-(2-BUTOXYETHOXY)ETHANOL

203-961-6	112-34-5	-	Eye Irrit. 2: H319	1-10%
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LIMONENE (CITRUS DULCIS)

232-433-8	8028-48-6	-	Flam. Liq. 3: H226; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Skin Irrit. 2: H315; Skin Sens. 1: H317; Asp. Tox. 1: H304	<1%
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4. FIRST AID MEASURES

4.1 Description of Necessary First Aid Measures

Ingestion:

Do not induce vomiting. Immediately remove product from the mouth and wash out mouth with plenty of water. Obtain immediate medical attention.

Eye:

Immediately hold the eyes open and wash with fresh running water. Take care not to rinse contaminated water into nonaffected eye. Remove contact lenses, if present and safe to do so. Ensure complete irrigation of the eye by keeping the eyelids apart and away from the eye and moving the eyelids by occasionally lifting the upper and lower lids. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or at least 15 minutes. Obtain immediate medical attention.

Skin:

Remove contaminated clothing and wash skin thoroughly with

soap and running water. Ensure contaminated clothing is washed before re-use, or discard. If symptoms develop, seek medical attention.

Inhalation:

Remove from source of exposure. Ensure airways are clear and have qualified person give oxygen through a face mask if breathing is difficult. If symptoms develop, seek medical attention.

4.2 Medical Attention and Special Treatment

First Aid Facilities:

An eye wash fountain, safety shower and a general washing facility should be available immediately adjacent to the work area.

Comments:

Treat according to person's condition and specifics of exposure.

Advice to Doctor:

Treat symptomatically.

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4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Immediate / special treatment: Eye bathing equipment should be available on the premises.

5. FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Extinguishing media: Water.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Exposure hazards: In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

5.3 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE AND EMERGENCY PROCEDURES

Personal precautions: Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2 ENVIRONMENTAL PRECAUTIONS

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bundin

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Clean-up procedures: Transfer to a suitable container.

6.3 REFERENCE TO OTHER SECTIONS

Reference to other sections: Refer to section 8 of SDS.

7. HANDLING AND STORAGE

Handling: Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this MSDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

Storage: Store packages of this product in a cool place. Make sure that containers of this product are kept tightly closed. Keep containers of this product in a well ventilated area. Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10. Some liquid preparations settle or separate on standing and may require stirring before use. Check packaging - there may be further storage instructions on the label.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Hazardous ingredients:

2- (2-BUTOXYETHOXY) ETHANOL

Workplace exposure limits:

Respirable dust

STATE	8 HOUR TWA	15 MIN. STEL	8 HOUR TWA	15 MIN. STEL
UK	67.5 mg/m ³	101.2 mg/m ³	-	-

DNEL / PNEC VALUES

DNEL / PNEC No data available.

8.2 EXPOSURE CONTROLS

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Respiratory protection not required.

Hand protection: Protective gloves. Gloves (alkali-resistant). Breakthrough time of the glove material > 1 hour. PVC gloves. Butyl gloves. Nitrile gloves. Viton gloves. Neoprene gloves.

Eye protection: Safety glasses. Ensure eye bath is to

hand. **Skin protection:** Protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Physical Description / Properties Appearance:

Odour: pH:

Viscosity:

Vapor Pressure:

Vapor Density:

Boiling Point (°C):

Freezing Point (°C): Melting Point (°C):
Solubility In Water:
Specific Gravity (@ 25 C): Flash Point
(°C): >100°C Flammability:
Lower Explosive Limit (%):
Upper Explosive Limit (%): Autoignition
Temp (°C):
Decomposition Temp (°C):

Orange Liquid.

Pleasant Orange Odour

>12.0-13.0

As of water

Not available

Not available

Approximately 100 C at 100kPa

Below 0 C

Not available

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5

>100°C

Not available

Not available

Not available

Not available

Not available

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10. STABILITY AND REACTIVITY

Reactivity: This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

Conditions to Avoid: This product should be kept in a cool place, preferably below 30°C. Keep containers tightly closed. Keep containers and surrounding areas well ventilated.

Incompatibilities: strong oxidising agents.

Fire Decomposition: Only small quantities of decomposition products are expected from this product at temperatures normally achieved in a fire. This will only occur after heating to dryness. Combustion forms carbon dioxide, and if incomplete, carbon monoxide and possibly smoke. Water is also formed. May form nitrogen and its

compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas in reducing atmospheres. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

Polymerisation: This product will not undergo polymerisation reactions.

11. TOXICOLOGICAL INFORMATION

Toxicity: 2-butoxyethanol is a severe eye irritant. Results of skin irritation studies are conflicting; however, it is considered to be a mild to moderate skin irritant in test animals. Contact dermatitis has been reported in a few cases. It is well absorbed via the inhalational, oral and dermal routes. Absorption studies in various species, including humans, have shown that 2-butoxyethanol is rapidly absorbed through the skin, including absorption from aqueous solutions. The respiratory uptake in volunteers in inhalational studies was approximately 57-78% of the inspired amount. Human studies indicate that dermal absorption of vapour is approximately 20% of the total vapour uptake. Following absorption, it is widely distributed throughout the body. The ingestion of large quantities of 2-butoxyethanol may result in coma, metabolic acidosis, shock and respiratory distress.

The main effect observed in both acute and repeated dose animal toxicity studies is haematotoxicity, with the principal haemolytic agent being BAA the major metabolite. Effects other than haemolysis which have been observed in repeated dose studies include changes to the liver, kidney, spleen and thymus, with these effects considered secondary to haemolysis as they are seen at levels at or above haematotoxic doses.

In fertility studies, minor changes in sperm concentration and the oestrous cycle were noted in a drinking water rat study. 2-butoxyethanol has tested negative in a wide variety of well conducted in vitro assays, including gene mutation, chromosomal aberration and DNA effect assays. There is no data to hand indicating any particular target organs.

Classification of hazardous ingredient

Hazardous ingredients:

ISOTRIDECANOLETHOXYLATE,POLYMER(8 MOLE EO AVERAGE)

FISH	96H LC50	1-10	mg/l
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C9/11 A, >3-6 EO PREDOMINANTLY LINEAR (DID 21)

Scenedesmus	48H EC50	10-100	mg/l
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PERSISTANTENCE AND DEGRADABILITY

Persistence and degradability: Biodegradable. The surfactants contained in this preparation comply with the biodegradability criteria as laid down in regulation (EC) No.648/2004 on detergents.

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12.3 BIOACCUMULATIVE POTENTIAL

Bioaccumulative potential: No bioaccumulation potential.

12.4 MOBILITY IN SOIL

Mobility: Soluble in water.

12.5 RESULTS OF PBT AND vPvB ASSESSMENT

PBT IDENTIFICATION. This product is not identified as a PBT/vPvB substance

13. DISPOSAL CONSIDERATION

- 13.1 Disposal Method:** Reclaim or dispose of in accordance with local and national regulations.
- 13.2 Disposal of Contaminated Packaging:** Empty container. Rinse container, remove or obliterate labelling before sending to landfill or recycler.
- 13.3 Environmental Regulations:** Not applicable.

14. TRANSPORTATION INFORMATION

- 14.1 UN Number:** Not applicable
- 14.2 UN Proper Shipping Name:** Not applicable
- 14.3 Dangerous Goods Class:** Not applicable
Packing Group: Not applicable
- 14.4 Environmental Hazards:** Not applicable
- 14.5 Special Precautions for User:** Not applicable
- 14.6 HAZCHEM Code:** Not applicable
Additional Shipping Information: Not applicable

15. REGULATORY INFORMATION

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

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OTHER INFORMATION

16.1 Issue Date: January 2016
16.2 Contact Points:
Title / Position: Admin Manager **Telephone:** (02) 9755 2125
E-mail: admin@nulineresources.com
16.3 After Hours Emergency Medical Assistance: Poisons Information Centre
Telephone: Australia: Australia: 13 11 26

Phrases used in s.2 and s.3: EUH208: Contains <name of sensitising substance>. May produce an allergic reaction. H226: Flammable liquid and vapour.

H302: Harmful if swallowed.

H304: May be fatal if swallowed and enters airways.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

H412: Harmful to aquatic life with long lasting effects.

Legal 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. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

Disclaimer:

This information is provided based on our current knowledge and is intended to describe the product for the purpose of health, safety and environment requirements only. Nu-Line Resources makes no representation, guarantee or warranty, expressed or implied, as to the accuracy, reliability or completeness of the information and assumes no responsibility for injury, damage or loss resulting from the use of the material. Since Nu-Line Resources Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product.

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