

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND THE SUPPLIER

Product Name: **EASYCLEAN**
Recommended use: Degreasing floors, plant and equipment
Supplier: Challenge Chemicals Australia
ABN: 68 059 129 568
Street Address: 6 Butcher Street
 KWINANA
 PERTH W.A. 6167

Telephone: (08) 9419 5577
Facsimile: (08) 9419 4958

Emergency Telephone number: (08) 9419 5577 (7.00am – 4.30pm)
 0419 049 003

2. HAZARDS IDENTIFICATION

Hazardous according to criteria of NOHSC.

Hazard Category **Irritant (Xi)**

R-phrases(s) **R36/38**

S-phrases(s) **S1/S2**
S13
S24/25
S26
S36
S37
S39
S45

3. COMPOSITION/INFORMATION ON INGREDIENTS

Appearance: Yellow thin liquid with sweet odour.

CHEMICAL ENTITY	CAS NO.	PROPORTION
Alkaline Salts		<10%w/v
Ethylene Glycol Monobutyl Ether	111-76-2	<10%w/v
Non Hazardous Components (surfactants, dye, water)		>60%w/v

All the constituents of this materials are listed on the Australian Inventory of Chemical Substances (AICS).

Product Name: Easyclean
Issued: 07/01/2016

Version: A/3

1/5

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Hazard Classification: Hazardous substance – Irritant(Xi), Non dangerous goods

Class: Not applicable

Poisons Schedule (Aust): 5

4. FIRST AID MEASURES

Poison Information Centres in each State capital city can provide additional assistance for scheduled poisons. Phone 13 11 26.

Ingestion: Immediately rinse mouth with water. Give water to drink. Do NOT induce vomiting. If vomiting occurs, place victim's face downwards, head lower than hips to prevent vomit entering lungs. Seek immediate medical assistance.

Eye Contact: Immediately irrigate with copious quantities of water for at least 15 minutes. Eyelids to be held open. Remove clothing if contaminated and wash skin. Urgently seek medical assistance. Transport to hospital or medical centre.

Skin Contact: Immediately wash contaminated skin with plenty of water. For gross contamination, immediately drench with water and remove clothing. Remove contaminated clothing and wash before re-use. If swelling, redness, blistering, or irritation occurs seek medical advice.

Inhalation: Remove victim from exposure – avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. For all but the most minor symptoms arrange for patient to be seen by a doctor as soon as possible, either on site or at the nearest hospital.

Notes to physician: Treat symptomatically and as for alkaline corrosive material.

5. FIRE-FIGHTING MEASURES

Hazchem Code: 2R

Fire fighting further advice: Not combustible. Keep containers cool with water spray. Fire fighters to wear self-contained breathing apparatus if risk of exposure to vapour or products of combustion.

Suitable extinguishing media: Water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

6. ACCIDENTAL RELEASE MEASURES

Slippery when spilt. Clear area of all unprotected personnel. Wear protective equipment to prevent skin and eye contamination. Contain using sand and soil – prevent runoff if significant quantities into drains and waterways. For small spills, hose away with copious amounts of water. Use absorbent (soil or sand, inert material, vermiculite). Collect and seal in properly labeled containers for disposal.

7. HANDLING AND STORAGE

Storage: Keep containers closed at all times. Store in cool area away from acids and foodstuffs. Do not store in aluminum or galvanized containers or use die-cast zinc or aluminum bungs. Plastic or steel bungs should be used. Observe good occupational hygiene. Wash hands before eating and remove contaminated clothing before entering eating areas.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits.

No value assigned for this specific material by the National Occupational Health and Safety Commission (Worksafe Australia)

However, Exposure standard for constituent: ethylene glycol mono butyl ether TWA 25ppm (121mgm/m³). Absorption through skin may be a significant source of exposure.

As published by the National Occupational Health and Safety Commission (Worksafe Australia).

This exposure standard is a guide to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. 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.

Engineering Measures: Ensure good ventilation when using product to maintain ethylene glycol monobutyl ether vapour concentration below 25ppm. Vapour is heavier than air.

Personal Protection Equipment: Avoid skin and eye contact. Wear protective clothing, closed footwear, pvc or rubber gloves and safety glasses, goggles or face mask.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form / Colour / Odour: Thin yellow liquid with sweet odour.

Solubility: Infinite

Specific Gravity: 1.09

Rel Vapour Density: Not determined

Vapour Pressure: Not determined

Flash Point: Not flammable

Flammability Limits: Not applicable

Autoignition Temp (C): Not applicable

% Volatile by Volume: 82

Melting Point (C): Not applicable

Boiling Point (C): Not determined

Decomp. Point (C): Not determined

Sublimation Point: Not applicable

pH: 12.5

Viscosity: Not determined

Evaporation Rate: Not determined

10. STABILITY AND REACTIVITY

Stability: Shelf Life. EASYCLEAN when stored in a cool area is a stable product and will not deteriorate within a reasonable time. Avoid conditions of heat and freezing.

Avoid contact with aluminum, zinc, brass, galvanized and painted surfaces and acids.

11. TOXICOLOGICAL INFORMATION

Main Symptoms: No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms that may arise if the product is mishandled are:

Ingestion: Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain, swelling of the larynx, burns to oesophagus and stomach.

Eye Contact: A severe eye irritant. Contamination of the eyes can result in permanent injury. Corrosive to eyes: contact can cause corneal burns.

Skin Contact: Contact with skin will result in severe irritation. Repeated or prolonged skin contact may lead to irritant contact dermatitis. Corrosive to skin – may cause skin burns. Skin contact often does not cause pain, thus care should be taken to avoid contaminating gloves and boots.

Inhalation: Inhalation of mists will result in respiratory irritation and possible harmful corrosive effects including lesions of the nasal septum, pulmonary oedema, pneumonitis and emphysema.

Long Term Effects: Chronic effects are unlikely due to the severity of acute effects.

Acute toxicity / Chronic toxicity

No data available for EASYCLEAN.

For components:

Sodium Metasilicate – Oral LD₅₀ = 1500-3200mg/kg (RAT)

Ethylene Glycol Monobutyl Ether Oral LD₅₀ = 560mg/kg (RAT) = 1200mg/kg (Mouse)

= 320mg/kg (Rabbit) Inhalation LC₅₀ = 2400mg /lt/ 4hrs (RAT) (1)

= 3360mg /lt /4 hrs (Mouse) (1)

12. ECOLOGICAL INFORMATION

No data available for EASYCLEAN. For component Ethylene Glycol Monobutyl Ether (EGMBE) the following data is available.

Mobility – Ethylene Glycol Monobutyl Ether is involatile and water soluble and will partition to the aqueous phase. EGMBE should not partition to organic matter in soils/sediments.

Persistence/Degradability – EGMBE is readily biodegradable. BOD₂₀=66% of ThOD (MITI test).

Bioaccumulation – EGMBE is not expected to bioaccumulate. Predicted bioconcentration factor = 4.

Genotoxicity – EGMBE has been tested in a number of bacterial and mammalian systems. No significant mutagenic response was observed and the carcinogenic potential of the material is therefore considered to be low. **Reproductive/Developmental** – Studies on pregnant animals have indicated that this solvent is not teratogenic (did not cause malfunctions in the offspring). Studies in laboratory animals have shown no effects on fertility in the following species: mice.

Avoid contaminating waterways.

13. DISPOSAL CONSIDERATIONS

Refer to State Land Waste Management Authority. May be greatly diluted or carefully neutralized with dilute acid and flushed to drain with copious amounts of water. Alternatively, normally suitable for disposal at approved land waste site.

14. TRANSPORT INFORMATION

Classified as Non Dangerous Goods for the purpose of transport by road or rail. Refer to relevant regulations for storage and transport requirements.

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15. REGULATORY INFORMATION

Hazardous according to criteria of Worksafe Australia.

Hazard Category: **Irritant (Xi)**

R-phrases(s) **R36/38** Irritating to eyes and skin

S-phrases(s) **S1/S2** Keep locked up and out of the reach of children
S13 Keep away from food, drink animal foodstuffs
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S24/25 Avoid contact with skin and eyes
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S36 Wear suitable protective clothing
S37 Wear suitable gloves
S39 Wear eye/face protection
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label whenever possible)

Poisons Schedule (AUST) Toxic Substance (NZ): Schedule 5

16. OTHER INFORMATION

Literary Reference: 1. Redox MSDS – Sodium Metasilicate - June 2013
2. Orica MSDS – Ethylene Glycol Monobutyl Ether – July 2014

This MSDS summarises at the date of issue or best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since Challenge Chemicals Australia and its subsidiaries 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 in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.

END OF M.S.D.S