

## SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

#### 1.1 Product identifier

**Product name** OVEN SAFE  
**Synonyms** CHALLENGE OVEN SAFE

#### 1.2 Uses and uses advised against

**Uses** NON CAUSTIC OVEN CLEANER

#### 1.3 Details of the supplier of the product

**Supplier name** CHALLENGE CHEMICALS AUST.  
**Address** 6 Butcher St, Kwinana Beach, WA, 6167, AUSTRALIA  
**Telephone** (08) 9419 5577  
**Email** [sales@challengechemicals.com.au](mailto:sales@challengechemicals.com.au)  
**Website** <http://www.challengechemicals.com.au>

#### 1.4 Emergency telephone numbers

**Emergency** 0414 586 164

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

##### Physical Hazards

Not classified as a Physical Hazard

##### Health Hazards

Skin Corrosion/Irritation: Category 1B  
Serious Eye Damage / Eye Irritation: Category 1

##### Environmental Hazards

Not classified as an Environmental Hazard

#### 2.2 GHS Label elements

**Signal word** DANGER

##### Pictograms



##### Hazard statements

H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.

##### Prevention statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 Wash thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

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### Response statements

|                    |  |
|--------------------|--|
| P301 + P330 + P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.   |
| P303 + P361 + P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.                              |
| P304 + P340        | IF INHALED: Remove person to fresh air and keep comfortable for breathing.   |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P310               | Immediately call a POISON CENTRE or doctor/physician.  |
| P321               | Specific treatment is advised - see first aid instructions.  |
| P363               | Wash contaminated clothing before reuse.   |

### Storage statements

P405 Store locked up.

### Disposal statements

P501 Dispose of contents/container in accordance with relevant regulations.

### 2.3 Other hazards

No information provided.

## 3. COMPOSITION/ INFORMATION ON INGREDIENTS

### 3.1 Substances / Mixtures

| Ingredient                | CAS Number    | EC Number     | Content   |
|---------------------------|---------------|---------------|-----------|
| 2-PHENOXYETHANOL          | 122-99-6      | 204-589-7     | 5 to 15%  |
| ETHANOLAMINE              | 141-43-5      | 205-483-3     | 5 to 15%  |
| EDTA TETRASODIUM SALT     | 64-02-8       | 200-573-9     | <5%       |
| SURFACTANT(S)             | -             | -             | <5%       |
| NON HAZARDOUS INGREDIENTS | Not Available | Not Available | Remainder |

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

|                             |  |
|-----------------------------|--|
| <b>Eye</b>                  | If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.                       |
| <b>Inhalation</b>           | If inhaled, remove from contaminated area. To protect rescuer, use a Type A (Organic vapour) respirator or an Air-line respirator (in poorly ventilated areas). Apply artificial respiration if not breathing. |
| <b>Skin</b>                 | If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.       |
| <b>Ingestion</b>            | For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting.   |
| <b>First aid facilities</b> | Eye wash facilities and safety shower should be available.   |

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

Ethanolamine is irritating to eyes, skin, and the respiratory tract. Over exposure may result in CNS depression and liver/kidney damage. Persons suffering from asthma, pre-existing skin disorders, or impaired liver, kidney, or pulmonary function may be more susceptible to the effects of exposure.

### 4.3 Immediate medical attention and special treatment needed

Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

### 5.1 Extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

### 5.2 Special hazards arising from the substance or mixture

Non flammable. May evolve toxic gases (carbon/ nitrogen oxides, amines, ammonia, hydrocarbons) when heated to decomposition.

**5.3 Advice for firefighters**

Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

**5.4 Hazchem code**

2X  
2 Fine Water Spray.  
X Wear liquid-tight chemical protective clothing and breathing apparatus. Contain spill and run-off.

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**6. ACCIDENTAL RELEASE MEASURES**

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**6.1 Personal precautions, protective equipment and emergency procedures**

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Clear area of all unprotected personnel. Ventilate area where possible. Contact emergency services where appropriate.

**6.2 Environmental precautions**

Prevent product from entering drains and waterways.

**6.3 Methods of cleaning up**

Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal.

**6.4 Reference to other sections**

See Sections 8 and 13 for exposure controls and disposal.

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**7. HANDLING AND STORAGE**

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**7.1 Precautions for safe handling**

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in a cool, dry, well ventilated area, removed from incompatible substances, heat or ignition sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use.

**7.3 Specific end uses**

No information provided.

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

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**8.1 Control parameters****Exposure standards**

| Ingredient   | Reference | TWA |                   | STEL |                   |
|--------------|-----------|-----|-------------------|------|-------------------|
|              |           | ppm | mg/m <sup>3</sup> | ppm  | mg/m <sup>3</sup> |
| Ethanolamine | SWA [AUS] | 3   | 7.5               | 6    | 15                |

**Biological limits**

No biological limit values have been entered for this product.

**8.2 Exposure controls**

**Engineering controls** Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain vapour levels below the recommended exposure standard.

**PRODUCT NAME OVEN SAFE**

**PPE**

- Eye / Face**      Wear splash-proof goggles.
- Hands**            Wear PVC or rubber gloves.
- Body**              Wear coveralls.
- Respiratory**      Where an inhalation risk exists, wear a Type A (Organic vapour) respirator or an Air-line respirator.



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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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### 9.1 Information on basic physical and chemical properties

|                                  |               |
|----------------------------------|---------------|
| <b>Appearance</b>                | CLEAR LIQUID  |
| <b>Odour</b>                     | SLIGHT ODOUR  |
| <b>Flammability</b>              | NON FLAMMABLE |
| <b>Flash point</b>               | NOT RELEVANT  |
| <b>Boiling point</b>             | NOT AVAILABLE |
| <b>Melting point</b>             | NOT AVAILABLE |
| <b>Evaporation rate</b>          | NOT AVAILABLE |
| <b>pH</b>                        | 13            |
| <b>Vapour density</b>            | NOT AVAILABLE |
| <b>Relative density</b>          | NOT AVAILABLE |
| <b>Solubility (water)</b>        | NOT AVAILABLE |
| <b>Vapour pressure</b>           | NOT AVAILABLE |
| <b>Upper explosion limit</b>     | NOT RELEVANT  |
| <b>Lower explosion limit</b>     | NOT RELEVANT  |
| <b>Partition coefficient</b>     | NOT AVAILABLE |
| <b>Autoignition temperature</b>  | NOT AVAILABLE |
| <b>Decomposition temperature</b> | NOT AVAILABLE |
| <b>Viscosity</b>                 | NOT AVAILABLE |
| <b>Explosive properties</b>      | NOT AVAILABLE |
| <b>Oxidising properties</b>      | NOT AVAILABLE |
| <b>Odour threshold</b>           | NOT AVAILABLE |

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## 10. STABILITY AND REACTIVITY

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### 10.1 Reactivity

Carefully review all information provided in sections 10.2 to 10.6.

### 10.2 Chemical stability

Stable under recommended conditions of storage.

### 10.3 Possibility of hazardous reactions

Hazardous polymerisation is not expected to occur.

### 10.4 Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources.

### 10.5 Incompatible materials

Incompatible with oxidising agents (e.g. hypochlorites), acids (e.g. nitric acid) and nitrites (possibly forming carcinogenic nitrosamines).

### 10.6 Hazardous decomposition products

May evolve toxic gases (carbon/ nitrogen oxides, amines, ammonia, hydrocarbons) when heated to decomposition.

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## 11. TOXICOLOGICAL INFORMATION

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### 11.1 Information on toxicological effects

**PRODUCT NAME OVEN SAFE**

**Acute toxicity** Ingestion may result in burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.

**Information available for the ingredients:**

| Ingredient            | Oral LD50                | Dermal LD50                 | Inhalation LC50                    |
|-----------------------|--------------------------|-----------------------------|------------------------------------|
| 2-PHENOXYETHANOL      | 1850 mg/kg (rat)         | > 2000 mg/kg (rabbit)       | --                                 |
| ETHANOLAMINE          | 1089 mg/kg (rat) (AICIS) | 1025 mg/kg (rabbit) (AICIS) | 2.45 mg/L/4hrs (rat, extrapolated) |
| EDTA TETRASODIUM SALT | 1658 mg/kg (rat)         | --                          | --                                 |

**Skin** Causes burns. Contact may result in irritation, redness, pain, rash, dermatitis and possible severe burns.

**Eye** Contact may result in irritation, lacrimation, pain, redness, corneal burns and possible serious eye damage.

**Sensitisation** Not classified as causing skin or respiratory sensitisation.

**Mutagenicity** Insufficient data available to classify as a mutagen.

**Carcinogenicity** Insufficient data available to classify as a carcinogen.

**Reproductive** Insufficient data available to classify as a reproductive toxin.

**STOT - single exposure** Over exposure may result in irritation of the nose and throat, coughing and headache. High level exposure may result in nausea, dizziness and drowsiness.

**STOT - repeated exposure** Over exposure may result in CNS depression and liver/kidney damage. Persons suffering from asthma, pre-existing skin disorders, or impaired liver, kidney, or pulmonary function may be more susceptible to the effects of exposure to ethanolamine.

**Aspiration** Not classified as causing aspiration.

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**12. ECOLOGICAL INFORMATION**

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**12.1 Toxicity**

No information provided.

**12.2 Persistence and degradability**

No information provided.

**12.3 Bioaccumulative potential**

No information provided.

**12.4 Mobility in soil**

No information provided.

**12.5 Other adverse effects**

If released to the atmosphere ethanolamine is expected to exist almost entirely in the vapour phase. Expected to be removed by reaction with photochemically generated hydroxyl radicals and precipitation. If spilt on soil may leach into groundwater. Expected to biodegrade fairly rapidly following acclimation. Bioconcentration is not expected to be important environmental fate processes.

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**13. DISPOSAL CONSIDERATIONS**

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**13.1 Waste treatment methods**

**Waste disposal** For small amounts, absorb with sand, vermiculite or similar and dispose of to an approved landfill site. For large quantities, contact the manufacturer/supplier for additional information. Prevent contamination of drains and waterways as aquatic life may be threatened and environmental damage may result.

**Legislation** Dispose of in accordance with relevant local legislation.

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**14. TRANSPORT INFORMATION**

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**CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE**



**PRODUCT NAME OVEN SAFE**

|                                    | LAND TRANSPORT (ADG)                  | SEA TRANSPORT (IMDG / IMO)            | AIR TRANSPORT (IATA / ICAO)           |
|------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| <b>14.1 UN Number</b>              | 2491                                  | 2491                                  | 2491                                  |
| <b>14.2 Proper Shipping Name</b>   | ETHANOLAMINE or ETHANOLAMINE SOLUTION | ETHANOLAMINE or ETHANOLAMINE SOLUTION | ETHANOLAMINE or ETHANOLAMINE SOLUTION |
| <b>14.3 Transport hazard class</b> | 8                                     | 8                                     | 8                                     |
| <b>14.4 Packing Group</b>          | II                                    | II                                    | II                                    |

**14.5 Environmental hazards**

No information provided.

**14.6 Special precautions for user**

|                     |          |
|---------------------|----------|
| <b>Hazchem code</b> | 2X       |
| <b>GTEPG</b>        | 8A1      |
| <b>EmS</b>          | F-A, S-B |

**15. REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

|                           |  |
|---------------------------|--|
| <b>Poison schedule</b>    | Classified as a Schedule 5 (S5) Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).  |
| <b>Classifications</b>    | Safe Work Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals (GHS Revision 7). |
| <b>Inventory listings</b> | <b>AUSTRALIA: AIIC (Australian Inventory of Industrial Chemicals)</b><br>All components are listed on AIIC, or are exempt.                   |

**16. OTHER INFORMATION**

|                               |  |
|-------------------------------|--|
| <b>Additional information</b> | <p><b>EXPOSURE STANDARDS - TIME WEIGHTED AVERAGES:</b> Exposure standards are established on the premise of an 8 hour work period of normal intensity, under normal climatic conditions and where a 16 hour break between shifts exists to enable the body to eliminate absorbed contaminants. In the following circumstances, exposure standards must be reduced: Strenuous work conditions; hot, humid climates; high altitude conditions; extended shifts (which increase the exposure period and shorten the period of recuperation).</p> <p><b>RESPIRATORS:</b> In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.</p> <p><b>PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:</b><br/>The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as form of product, method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.</p> <p><b>HEALTH EFFECTS FROM EXPOSURE:</b><br/>It should be noted that the effects from exposure to this product will depend on several factors including: form of product; frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.</p> |
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**PRODUCT NAME OVEN SAFE****Abbreviations**

|                   |   |
|-------------------|---|
| ACGIH             | American Conference of Governmental Industrial Hygienists                                       |
| CAS #             | Chemical Abstract Service number - used to uniquely identify chemical compounds                 |
| CNS               | Central Nervous System  |
| EC No.            | EC No - European Community Number   |
| EMS               | Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods)                   |
| GHS               | Globally Harmonized System  |
| GTEPG             | Group Text Emergency Procedure Guide  |
| IARC              | International Agency for Research on Cancer   |
| LC50              | Lethal Concentration, 50% / Median Lethal Concentration   |
| LD50              | Lethal Dose, 50% / Median Lethal Dose   |
| mg/m <sup>3</sup> | Milligrams per Cubic Metre  |
| OEL               | Occupational Exposure Limit   |
| pH                | relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline). |
| ppm               | Parts Per Million   |
| STEL              | Short-Term Exposure Limit   |
| STOT-RE           | Specific target organ toxicity (repeated exposure)  |
| STOT-SE           | Specific target organ toxicity (single exposure)  |
| SUSMP             | Standard for the Uniform Scheduling of Medicines and Poisons                                    |
| SWA               | Safe Work Australia   |
| TLV               | Threshold Limit Value   |
| TWA               | Time Weighted Average   |

**Report status**

This document has been compiled by RMT on behalf of the manufacturer, importer or supplier of the product and serves as their Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer, importer or supplier or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer, importer or supplier.

While RMT has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

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