

SECTION1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product code : OVEN DESCALER & RINSE
Product type: organic ecological descaler

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use: Washing and cleaning products (including solvent based products).
Sectors of use. Professional use
Uses advised against: Do not use for purposes other than those listed

1.3. Details of the supplier of the safety data sheet

Australian distributor:
TOM STODDART PTY
39 Forest Way | Karawatha | QLD, 4117
tel 07 3440 7457 - Fax 07 3344 1000

1.4. Emergency telephone number

Poison Information Centre: 13 11 26

SECTION2. Hazards identification

2.1. Classification of the substance or mixture

2.1.1 GHS Classification 3rd Edition:

Pictograms: GHS07
Hazard Class and Category Code(s): Skin Irrit. 2, Skin Sens. 1, Eye Irrit. 2A, STOT SE 3, Aquatic Acute 3
Hazard statement Code(s): H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation
H402 - Harmful to aquatic life.

2.2. GHS Label elements, including precautionary statements

Pictogram:



Signal Word Code(s): GHS07 - Warning
Hazard statement Code(s): H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation
H402 - Harmful to aquatic life.

Precautionary statements:

Prevention P264 - Wash the skin thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Response P302+P352 - IF ON SKIN: Wash with plenty of water.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

Disposal P501 - Dispose of contents/container in accordance with local/regional/national/international regulation.

Contains:
REACTION MASS OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE [EC NO. 247-500-7]; AND 2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO. 220-239-6] (3:1)

Declaration of ingredients according to Detergent Regulation 648/2004:
polycarboxylates < 5 %

2.3. Hazards not otherwise classified (HNOC) or not covered by GHS

No information on other hazards

SECTION3. Composition/information on ingredients

Refer to paragraph 16 for full text of hazard statements

Substance	Concentration	Classification	Numerical identifier	
CITRIC ACID	20 - <30%	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	CAS EINECS	77-92-9 201-069-1
REACTION MASS OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE [EC NO. 247-500-7]; AND 2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO. 220-239-6] (3:1);	>=0,1- <1%	Acute Tox. 3, H301; Acute Tox. 3, H311; Skin Corr. 1C, H314; Skin Sens. 1, H317; Acute Tox. 3, H331; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	CAS EINECS	55965-84-9 611-341-5

SECTION4. First aid measures

4.1. Description of first aid measures

Inhalation: Air the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated area. If you feel unwell seek medical advice.

In case of contact with skin: Take contaminated clothing Immediately off. Wash immediately with plenty of running water and possibly with soap, the areas of the body that have, or are only suspected to have, come in contact with the product. In case of contact with skin, wash immediately with water. Consult a physician immediately

Direct contact with eyes (of the pure product): Wash immediately and thoroughly with running water, keeping eyelids open for at least 10 minutes, then protect your eyes with a dry sterile gauze.

Ingestion: Rinse mouth with water of the subject. Absolutely do not induce vomiting or emesis. Seek medical advice immediately. Consult a physician.

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

No data available.

4.3. Indication of any immediate medical attention and special treatment needed

If eye irritation persists: Get medical advice/attention.

SECTION5. Firefighting measures

5.1. Extinguishing media

Advised extinguishing agents:
Water spray, CO2, foam, dry chemical, depending on the materials involved in the fire.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal firefighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:
Wear mask, gloves and protective clothing.

6.1.2 For emergency responders:
Wear mask, gloves and protective clothing.
Eliminate all unguarded flames and possible sources of ignition. No smoking.
Provision of sufficient ventilation.
Evacuate the danger area and, in case, consult an expert.

6.2. Environmental precautions

Contain spill with earth or sand.
If the product has entered a watercourse in sewers or has contaminated soil or vegetation, notify it to the the authorities.
Discharge the remains in compliance with the regulations

6.3. Methods and material for containment and cleaning up

6.3.1 For containment:
Rapidly recover the product, wear a mask and protective clothing
Recover the product for reuse, if possible, or for removal. Possibly absorb it with inert material.
Prevent it from entering the sewer system.

6.3.2 For cleaning up:
After wiping up, wash the area and materials involved

6.3.3 Other information:
None in particular.

6.4. Reference to other sections

Refer to paragraphs 8 and 13 for more information

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Avoid contact and inhalation of vapors
Wear protective gloves/protective clothing/eye protection/face protection.
At work do not eat or drink.

7.2. Conditions for safe storage, including any incompatibilities

Keep in original container closed tightly. Do not store in open or unlabeled containers.
 Keep containers upright and safe by avoiding the possibility of falls or collisions.
 Store in a cool place, away from sources of heat and direct exposure of sunlight.

7.3. Specific end use(s)

Follow the rules of good hygiene in the workplace.

SECTION8. Exposure controls/personal protection

8.1. Control parameters

Related to contained substances:

REACTION MASS OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE [EC NO. 247-500-7]; AND 2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO. 220-239-6] (3:1);:

TLV-TWA=0.05mg/m3 (MAK)

TLV-TWA=0.2mg/m3 (DFG)

TLV-STEL=0,4mg/m3 (DFG)

8.2. Exposure controls



Appropriate engineering controls: Well ventilated environment. Observe the safety measures used in handling chemicals.
 Individual protection measures:

a) Eye / face protection: When handling the pure product use safety glasses (spectacles cage) (EN 166).

b) Skin protection
 i) Hand protection: When handling the pure product use chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3).

ii) Other: Wear normal work clothing.

c) Respiratory protection: Not needed for normal use.

d) Thermal hazards: No hazard to report

Environmental exposure controls: Use according to good working practices to avoid pollution into the environment.

SECTION9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value
Appearance	Clear dark yellow liquid
Odour	Typical
Odour threshold	Undefined
pH	2.1
Melting point/freezing point	0°C
Initial boiling point and boiling range	100°C
Flash point	>60°C
Evaporation rate	Not determined
Flammability (solid, gas)	Not determined
Upper/lower flammability or explosive limits	Not determined
Vapour pressure	3.2 kPa
Vapour density	>1
Relative density	1.1g/mL
Solubility	Undefined
Water solubility	Water soluble
Partition coefficient: n-octanol/water	Undefined
Auto-ignition temperature	Undefined
Decomposition temperature	Undefined

Viscosity	Undefined
Explosive properties	Not explosive
Oxidising properties	Not oxidant

9.2. Other information

No data available.

SECTION10. Stability and reactivity**10.1. Reactivity**

Stable under normal conditions

10.2. Chemical stability

No hazardous reaction when handled and stored according to provisions

10.3. Possibility of hazardous reactions

It may generate flammable gases on contact with dithiocarbamates, elementary metals (alkalis, alkaline earth, powder alloys or vapours) nitrides, and powerful reducing agents.

It may generate toxic gases on contact with dithiocarbamates, inorganic fluorides, inorganic sulphides, and powerful oxidising agents.

It may catch fire on contact with elementary metals (alkalis and alkaline earth).

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

Nothing to report

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION11. Toxicological information**11.1. Information on toxicological effects****(a) acute toxicity:**

REACTION MASS OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE [EC NO. 247-500-7]; AND 2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO. 220-239-6] (3:1): A short exposure (minutes) at easily reached concentrations may cause serious adverse effects, even death. The presence of mist can cause irritation of the upper respiratory tract (nose and throat) and the lungs.

(b) skin corrosion/irritation: Corrosive

REACTION MASS OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE [EC NO. 247-500-7]; AND 2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO. 220-239-6] (3:1): Severe eye irritation. Chemical burns may occur. Causes burns. Short exposure can cause severe burns to the skin. Symptoms may include pain, severe local redness and tissue damage.

(c) serious eye damage/irritation: Corrosive product: causes severe skin burns and eye damage.

REACTION MASS OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE [EC NO. 247-500-7]; AND 2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO. 220-239-6] (3:1): May cause severe eye irritation with corneal injury that may develop into permanent visual impairment, even blindness.

(d) respiratory or skin sensitization: The product, if brought into contact with skin can cause skin sensitization.

REACTION MASS OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE [EC NO. 247-500-7]; AND 2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO. 220-239-6] (3:1): May cause sensitization by skin contact. When it was tested on guinea pigs it caused allergic reactions to the skin.

(e) germ cell mutagenicity: based on available data, the classification criteria are not met.**(f) carcinogenicity: based on available data, the classification criteria are not met.**

- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
- (g) reproductive toxicity: based on available data, the classification criteria are not met.
- (h) specific target organ toxicity (STOT) single exposure: based on available data, the classification criteria are not met.
- (i) specific target organ toxicity (STOT) repeated exposure:
REACTION MASS OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE [EC NO. 247-500-7]; AND
2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO. 220-239-6] (3:1);: Excessive exposure may cause irritation of the upper respiratory tract (nose and throat)..
- (j) aspiration hazard:
REACTION MASS OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE [EC NO. 247-500-7]; AND
2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO. 220-239-6] (3:1): Aspiration into the lungs can occur during ingestion or vomiting, causing damage to the tissues or lungs themselves.

Related to contained substances:

REACTION MASS OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE [EC NO. 247-500-7]; AND 2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO. 220-239-6] (3:1);:

LD50 (rat) Oral (mg/kg body weight) = 64

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 87,12

CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 0,33

SECTION12. Ecological information

12.1. Toxicity

Related to contained substances:

CITRIC ACID:

C(E)L50 (mg/l) = 440

REACTION MASS OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE [EC NO. 247-500-7]; AND
2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO. 220-239-6] (3:1):

CL50=0,19mg/L (pesci, Oncorhynchus mykiss, 96h)

CE50=0,16mg/L (invertebrati, Daphnia Magna, 48h)

CE50=0,027mg/L (alga, Pseudokirchneriella subcapitata, 72h)

NOEC=0,0014 mg/L (Skeletonema costatum, 72h)

NOEC=0,05 mg/L (Oncorhynchus mykiss, 14d)

NOEC=0,05mg/L (Daphnia magna 21d)

C(E)L50 (mg/l) = 0,027 Acute toxicity M-factor = 10

NOEC (mg/l) = 0,05:

LC50 = 1.30 mg/l (fish, lepomis macrochirus, 96h) (OECD TG 203)

EC50 = 1.38 mg/l (invertebrates, Daphnia magna, 48h) (OECD TG 202)

EC50 = 2.60 mg/l (algae Desmodesmus subspicatus, 72h,) (OECD TG201)

Use according to good working practices to avoid pollution into the environment.

12.2. Persistence and degradability

Related to contained substances:

CITRIC ACID:

Readily biodegradable. 28 days – 97%

REACTION MASS OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE [EC NO. 247-500-7]; AND 2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO. 220-239-6] (3:1);:

12.3. Bioaccumulative potential

Related to contained substances:

CITRIC ACID:
BCF=3.2

REACTION MASS OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE [EC NO. 247-500-7]; AND 2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO. 220-239-6] (3:1);;
Bioconcentration potential is low (BCF <100 or Log Pow <3).

12.4. Mobility in soil

Related to contained substances:

REACTION MASS OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE [EC NO. 247-500-7]; AND 2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO. 220-239-6] (3:1);;
log Pow: 0.401 Measured 5-Chloro-2-methyl-4-isothiazolin-3-one (CMIT)
log Pow: -0.486 Measured 2-Methyl-4-isothiazolin-3-one (MIT)

12.5. Results of PBT and vPvB assessment

The substance / mixture NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

12.6. Other adverse effects

No adverse effects

SECTION13. Disposal considerations

13.1. Waste treatment methods

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies.

Recover if possible. Operate according to local or national regulations

Waste code CER/EWC (2000/532/CE), attributable to the product as:

11 01 06 * - Acids not otherwise specified

HP4 - HP13

SECTION14. Transport information

14.1. UN number

Not included in the scope of application regulations concerning the transport of dangerous goods: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).

14.2. UN proper shipping name

None

14.3. Transport hazard class(es)

None

14.4. Packing group

None

14.5. Environmental hazards

None

14.6. Special precautions for user

None

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

It is not intended to carry bulk

SECTION15. Regulatory information

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

Australian manufacturers' and importers' obligations under the WHS Regulations;
Classification Criteria: Directly refers to GHS (Rev.3) (2009);

Volatile Organic compounds - VOCs = 0.00 %
Volatile Organic compounds - VOCs = 0.00 g/l
Volatile CMR substances = 0.00 %

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

No chemical safety assessment was carried out by the supplier

SECTION16. Other information

16.1. Other information

Description of the hazard statements exposed to point 3
H315 = Causes skin irritation
H319 = Causes serious eye irritant
H335 = May cause respiratory irritation
H301 = Toxic if swallowed
H311 = Toxic in contact with skin
H314 = Causes severe skin burns and eye damage
H317 = May cause an allergic skin reaction
H331 = Toxic if inhaled
H400 = Very toxic to aquatic life
H410 = Very toxic to aquatic life with long lasting effect

Regulatory information:
GHS (Rev.3) (2009)
WHS Regulation

Bibliographic data and database:
SAX 12 Ed Van Nostrand Reinhold
MERCK INDEX 15 Ed
ECHA: European Chemicals Agency
NINCAS database
Hazardous Chemical Information System (HCIS)

NOTICE TO USERS

The information contained in this sheet are based on the knowledge available at the date of the preparation of this sheet. The user must be aware of the possible risks associated with the use of the product, other than that for which the product is supplied. The sheet does not exonerate the user from knowing and applying all the regulations governing its activities. The set of regulations mentioned is simply to help the user to fulfill its obligations regarding the use of hazardous products. This sheet does not exonerate the user from other legal obligations than those mentioned and from rules regulating possession and use of the product, since the user is the only responsible.

*** This sheet supersedes all previous editions.