

MATERIAL SAFETY DATA SHEET

According to Work Health and Safety Regulations 2011 and National Model Code of Practice for the preparation of Safety Data Sheets for Hazardous Chemicals

Version 1.0

Printing date: 25/03/2015

Revision date: 25/03/2015

SDS Record Number: CSSS-TCO-010-116429

1. Identification of the material and supplier

Material name:

Other Names:

Recommended use:

Manufacturer:

Supplier(Manufacturer):

Address:

Contact person(E-mail):

Telephone:

Fax:

Emergency number:

2. Hazards identification

GHS classification:

Physical hazards:	Not classified	
Health hazards:	Skin sensitization	Category 1
Environmental hazards:	Hazardous to the aquatic environment-acute	Category 1
	Hazardous to the aquatic environment-chronic	Category 1

GHS label elements:

Hazard Pictograms: :



Signal word: Warning

Hazard statement: May cause an allergic skin reaction.
Very toxic to aquatic life with long lasting effects.

Precautionary statement:

Prevention: Avoid breathing dust/fume/gas/mist/vapours/spray.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves.

Avoid release to the environment.

Response: IF ON SKIN: Wash with plenty of water.
If skin irritation or rash occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
Collect spillage.

Storage: Not applicable.

Disposal: Dispose of contents/container in according with local regulation.

Specific hazards: Not applicable.

3. Composition/information on ingredients

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Components	CAS No.	Percent

4. First aid measures

Inhalation:	Move to fresh air. If symptoms persist, seek medical advice.
Skin:	Remove all contaminated clothing immediately. Wash off with plenty of soap and water. Seek medical advice if irritation develops. Launder clothes before reuse.
Eye:	Rinse immediately and as long as possible with plenty of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical advice if irritation persists.
Ingestion:	Rinse mouth. Give water to drink.
Notes to physician:	Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media:	Carbon dioxide, appropriate foam or dry chemical, water spray, water mist.
Extinguishing media which must not be used for safety reasons:	Water jet.
Specific hazards arising from the chemical:	Emits toxic fumes under fire conditions: Carbon monoxide (CO), Sulfur oxides (SOx), nitrous gases (NOx).
Fire Fighting:	Firefighters must wear fire resistant protective equipment. Wear self contained breathing apparatus and protective gloves.
HAZCHEM code	None.

6. Accidental release measures

Personal precautions:	Remove ignition sources. Provide adequate ventilation. Avoid inhalation of vapour or dust. Avoid skin and eye contact.
Containment procedures:	Avoid disposing into drainage/sewer system or directly into the aquatic environment.
Methods for cleaning up:	Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal. Clean up affected area.

7. Handling and storage

Precautions for safe handling:	Avoid contact with skin and eyes. Avoid dust generation. Take precautionary measures against static discharges.
Storage:	Store in a cool, dry and well ventilated place. Keep away from sources of ignition - No smoking. Keep container tightly closed. Store separately from oxidizing agents.

8. Exposure controls/personal protection

Occupational exposure limits:

INGREDIENT DATA

Not available

EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3

Ingredient	Original IDLH	Revised IDLH

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Biological limit values:	Not available.
Appropriate engineering controls:	Ensure good ventilation. This can be achieved by local suction or general air extraction. If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here.
Personal protective equipment:	
Eye/face protection:	Wear appropriate goggles to prevent eye exposure.
Skin protection:	Wear suitable protective clothing to prevent skin exposure.
Respiratory protection:	Avoid breathing dust. In case of insufficient ventilation, wear suitable respiratory equipment.
Hand protection:	Wear appropriate gloves to prevent skin exposure.

9. Physical and chemical properties

Appearance:

Physical state:

Form:

Color:

Odor:

Odour threshold:

PH:

Melting point/Freezing point:

Initial boiling point and boiling range:

Flash point:

Evaporation rate:

Flammability (solid, gas) :

Upper/lower flammability or explosive limits:

Vapor pressure:

Vapor density:

Bulk density:

Relative Density:

Solubility (H₂O) :

Partition coefficient (n-octanol/water) :

Auto-ignition temperature:

Decomposition temperature:

Viscosity, dynamic (20 °C) :

Organic solvents:

Water:

VOC (EC) :

Solids contents:

10. Stability and reactivity

Reactivity:	Stable under recommended transport or storage conditions.
Chemical stability:	Stable under normal temperatures and pressures.
Possibility of hazardous reactions:	No dangerous reaction known under conditions of normal use.
Conditions to avoid:	Incompatible materials. Heating >100 °C: May catch fire.
Incompatible materials:	Oxidizing agents.
Hazardous decomposition products:	Thermal decomposition products: carbon monoxide (CO), nitrous gases (NO _x), Sulfur

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oxides (SOx).

11. Toxicological information

Toxicological data:

Acute toxicity:

LD50(Oral, Rat):

LD50(Dermal, Rabbit):

LC50(Inhalation, Rat):

Skin corrosion/Irritation:

Serious eye damage/irritation:

Respiratory or skin sensitization:

Germ cell mutagenicity:

Carcinogenicity:

Reproductive toxicity:

STOT- single exposure:

STOT-repeated exposure:

Aspiration hazard:

Other information

12. Ecological information

Toxicity:

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50		96h	Fish	OECD 203	N/A	N/A
EC50		48h	Daphnia	OECD 202	N/A	N/A
EC50		72h	Algae	OECD 201	N/A	N/A

Persistence and degradability:

Bioaccumulative potential:

Mobility in soil:

Not available.

Other adverse effects:

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal methods:

Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Waste from residues/unused products:

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging:

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

ADG

UN number

UN3077

Proper shipping name

Environmentally hazardous substance, solid, n.o.s.

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Hazard class	9
Packing group	III
Labels required	9
Special precautions	Read safety instructions, SDS and emergency procedures before handling.

IATA

UN number	UN3077
Proper shipping name	Environmentally hazardous substance, solid, n.o.s.
Hazard class	9
Packing group	III
Special precautions	Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number	UN3077
Proper shipping name	Environmentally hazardous substance, solid, n.o.s.
Hazard class	9
Packing group	III
Environmental hazards	
Marine pollutant	Yes
Special precautions	Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: IBC08

15. Regulatory information

National regulations

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

"Australia Inventory of Chemical Substances (AICS)", "Australia Hazardous Substances Information System - Consolidated Lists"

Inventory status:

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic /Non-Domestic Substances List (DSL) /(NDL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial/ Notified Chemical Substances (EINECS) / (ELINCS)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information

Indication of changes:	Version 1.0
Training instructions:	Not applicable.
Further information:	This information is based upon the present state of our knowledge. This MSDS has been compiled and is solely intended for this product.
Notice to reader:	<p>Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees.</p> <p>This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.</p>