

This Material is Not Hazardous according to the criteria of NOHSC

1. Identification of the Material and Supplier

Product Name Formula D
Product Use Acidic Detergent
Creation Date: 6 April 2016
Supplier Advanced Specialised Equipment
ABN 29 076 652 269
Mail Address PO Box 67, Brisbane Markets, QLD, 4106

Telephone: 1300 307 755
Facsimile 07 3378 4100

Emergency Telephone: 1300 307 755 (Available 24 Hours)

2. Composition/Information on Ingredients

(Listed when present at 1% or greater, carcinogens at 0.1% or greater)

Chemical Name	% Weight	CAS Registry Number	TWA (mg/m ³)	STEL (mg/m ³)
Secondary alkane sulphonate	<5	14035-94-0	not set	not set
Glycolic acid	<5	79-14-1	not set	not set
Oxalic Acid	<10	144-62-7	not set	not set
Citric Acid	<5	77-92-9	not set	not set
Decyl alcohol ethoxylate	<5	61827-42-7	not set	not set
Water	to 100	7732-18-5	not set	not set

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

The TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak "is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

3. Hazards Identification

Risk Phrases:	Not Hazardous - No criteria found
Safety Phrases:	Not Hazardous - No criteria found.
SUSDP Classification:	Classified as schedule 6 according to the criteria of SUSDP.
ADG Classification:	None allocated. Not a Dangerous Good.
UN Number:	None allocated

Emergency Overview

Physical Description & colour	Clear mobile liquid.
Odour:	Neutral odour.
Major Health Hazards:	No major health hazards are known.

Potential Health Effects

Inhalation:	Inhalation of product mist may cause respiratory irritation: Symptoms may include coughing and difficulty breathing. Move person to fresh air
Skin Contact:	Symptoms may include pain, redness and swelling.
Eye Contact:	Symptoms may include pain, redness, swelling and tearing
Ingestion:	Symptoms may include nausea, vomiting, pain and diarrhea. Do not induce vomiting,

Carcinogen Status:

NOHSC: No significant ingredient is classified as carcinogenic by NOHSC.

NTP: No significant ingredient is classified as carcinogenic by NTP.

IARC: No significant ingredient is classified as carcinogenic by IARC.

4. First aid measures

For Advice contact a Poisons Information Centre (phone eg. Australia 131126: New Zealand 0 800 764 766) or a Doctor.

For Ingestion:	Do not induce vomiting unless advised by physician or poison control center. Drink one or two glasses of water to dilute product. Get medical attention. Do not give anything by mouth to an unconscious person.
For Skin:	Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists. Wash contaminated clothing before reuse.
For Eyes	<u>Immediately</u> flush with plenty of water for at least 15 minutes. Remove contact lenses Hold eyelid open to insure complete

For Inhalation washing. Get Medical Attention.
Move person to fresh air. Get medical attention if irritation persists.

5. Fire fighting measures

Fire and Explosion Hazards:	There is no risk of an explosion from this product under normal circumstances if it is involved in a fire. This product is likely to decompose only after heating to dryness, followed by further strong heating.
Extinguishing Media:	Not Combustible. Use extinguishing media suited to burning materials.
Fire Fighting:	
Flash point:	Does not burn
Upper Flammability Limit:	Does not burn
Lower Flammability Limit:	Does not burn.
Autoignition temperature:	Does not burn.
Flammability Class:	Does not burn.

6. Accidental release measures

Accidental release: Minor spills do not normally need any special cleanup measures. In the event of a major spill, prevent spillage from entering drains or water courses. As a minimum, wear overalls, goggles and gloves. No special recommendations for clothing materials. Stop leak if safe to do so, and contain spill.

Absorb onto sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Recycle containers wherever possible after careful cleaning. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. This material may be suitable for approved landfill. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

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 the product does not come into contact with substances listed under "Materials to avoid" 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.

8. Exposure controls / personal protection

The following Australian Standards will provide general advice regarding safety clothing and equipment: Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Industrial Clothing: **AS2919**, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.
Exposure Limits TWA (mg/m³) STEL (mg/m³)
Exposure limits have not been established by NOHSC for any of the significant ingredients in this product.

Ventilation:	Use adequate ventilation. Use solution presents no general hazard.
Respiratory Protection:	Not required under normal working/use conditions.
Eye Protection:	Not normally required. Use if mist will get into the eyes in specific applications.
Skin Protection:	Use gloves if hands will be continually in solution. Not normally necessary in general use as this product is used in a spray bottle.
Personal Hygiene:	As in handling any detergent, wash thoroughly after use.

9. Physical and chemical properties

Physical Description & colour:	Clear mobile liquid
Odour:	Neutral odour
Boiling Point:	Approximately 100°C at 100kPa.
Freezing/Melting Point:	Lower than 0° C.
Volatiles:	Water component.
Vapour Pressure:	2.37 kPa at 20°C (water vapour pressure).
Vapour Density:	Colourless odourless liquid

Specific Gravity:	1.01
Water Solubility:	Completely soluble in water.
pH:	In concentrate: <2.0
Volatility:	No data.
Odour Threshold:	No data.
Evaporation Rate:	No data
Coeff Oil/water distribution:	No data
Autoignition temp:	Does not burn.

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:	None known.
Incompatibilities:	No particular incompatibilities.
Fire Decomposition:	Small quantities of carbon dioxide may be generated.
Polymerisation:	This product is unlikely to undergo polymerisation processes.

11. Toxicological information

Target Organs: There is no data to hand indicating any particular target organs.

Classification of Hazardous Ingredients

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

ACUTE EFFECTS

INGESTION:	Capable of causing irritation if swallowed and may cause nausea and vomiting.
EYE CONTACT:	Capable of causing eye irritation.
SKIN CONTACT:	Capable of causing skin irritation.
INHALATION:	Capable of causing irritation when vapours from the product are inhaled.
LONG TERM EFFECTS:	No information available for the product.
ACUTE TOXICITY / CHRONIC TOXICITY:	No toxicity data for this specific product, however toxicity data for the hazardous ingredient is listed below.

TOXICITY DATA FOR OXALIC ACID:

Oral LD50(rat) 7500 mg/kg Dermal LD50 (rabbit) 500 mg/24H

12. Ecological information

Ecotoxicity	No data available. Avoid contaminating waterways. The product is acidic. If large spills occurred a water pH drop could be responsible for an environmental effect on aquatic organisms.
PERSISTENCE AND DEGRADABILITY:	Surfactant is readily biodegradable.

13. Disposal considerations

Containers should be emptied as completely as practical before disposal. If possible, recycle containers either in-house or send to recycle company. If this is not practical, send to a commercial waste disposal site. This product should be suitable for landfill. However, check with local Waste Disposal Authority before sending there. Note that product properties may have been changed in use, significantly altering its suitability for landfill. Please do NOT dispose into sewers or waterways.

14. Transport information

ADG Code: This product is not classified as a Dangerous Good. No special transport conditions are necessary unless required by other regulations.

15. Regulatory information

AICS: All of the significant ingredients in this formulation are to be found in the public AICS Database.

16. Other information

This MSDS contains only safety-related information. For other data see product literature.

Acronyms:

ADG Code Australian Code for the Transport of Dangerous Goods by Road and Rail

AICS Australian Inventory of Chemical Substances

CAS number Chemical Abstracts Service Registry Number

Hazchem Number Emergency action code of numbers and letters that provide information to emergency services especially firefighters

IARC International Agency for Research on Cancer

NOHSC National Occupational Health and Safety Commission

NOS Not otherwise specified

NTP National Toxicology Program (USA)

R-Phrase Risk Phrase

SUSDP Standard for the Uniform Scheduling of Drugs & Poisons

UN Number United Nations Number

End of MSDS