



Redox Chemical Pte Ltd

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MATERIAL SAFETY DATA SHEET

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SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer: Redox Chemical Pte Ltd

Address: No.63 Tuas View Walk 2, Westlink Techpark, Singapore 637631

Telephone: (65)-62682355

Fax : (65)-62687336

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Trade Name and Synonyms : **REDOX HEAVY DUTY CLEANER**

SECTION 2 – HAZARDOUS INGREDIENTS

Materials	%	TLV (units) (Based on 100% of the mentioned raw material)
Caustic Soda CAS No. 1310-73-2	Less than 1.0	2 mg/m ³ of air
Sodium Nitrate CAS No. 7631-99-4	Less than 1.0	Not Determined

SECTION 3 – HAZARDOUS IDENTIFICATION

Specific Hazards

None

Particular Information Pertaining to Specific Risks for Human and Environment

R 36/37 Irritating to eyes and respiratory system

Classification System

The classification can be expanded by information from technical literature and by information furnished by supplier companies.

SECTION 4 – HEALTH HAZARD DATA

Effects of Exposure: Inhalation – irritation to respiratory tract, difficulty in breathing
Skin contact – redness, swelling, dryness, irritation of skin
Eye contact – eye discomfort, redness, stinging, swelling
Ingestion – nausea, vomiting, diarrhea, severe stomach pain

EMERGENCY AND FIRST AID PROCEDURES

Inhalation	Remove to fresh air. Keep body warm. Seek medical help.
Skin Contact	Remove contaminated clothing. Wash with soap and plenty of water immediately. Seek medical help.
Eye Contact	Wash with water immediately for at least 15 minutes. Consult an ophthalmologist.
Ingestion	Drink plenty of water. Seek medical help immediately.

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SECTION 5 – FIRE AND EXPLOSION HAZARD DATA

Flashpoint(method used) : Not Applicable	Flammable Limits	Lcl:	Vel:
Extinguishing Media: CO ₂ , foam, dry chemical			
Special Fire Fighting Procedures : Use water spray to cool containers.			
Unusual Fire and Explosion Hazards : None			

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Steps to be taken in case material is released or spilled: Barricade the area. Cover spill with sawdust or vermiculate. Scoop into appropriate container. Neutralize area with dilute hydrochloric acid and flush with water.	
Waste disposal method: Dispose contaminated materials by approved licensed collector in accordance to federal, state and local regulations.	

SECTION 7 – HANDLING & STORAGE

Handling	Wear the necessary personal protection equipment as mentioned in Section 8. Wash hands before eating, drinking or smoking.
Storage	Keep in a cool, well-ventilated place. Keep containers closed when not in use. Keep out of reach of children.

SECTION 8 – SPECIAL PROTECTION INFORMATION

Respiratory Protection : None. Self-contained breathing apparatus in enclosed area.		
Ventilation	Local Exhaust : Acceptable	Special -----
	Mechanical(general) : -----	Other -----
Protective Gloves : Rubber gloves		Eye Protection: Chemical splash goggles
Other Protective Equipment: Eye bath and safety shower		

SECTION 9 – PHYSICAL & CHEMICAL DATA

Boiling Point (°C)	101°C	Specific Gravity (H ₂ O=1)	1.03 (±0.05)
Solubility in Water	Completely	pH	12.9 (± 0.5)
Appearance and Odor : Green Liquid with Mild Inoffensive Odor			

SECTION 10 – REACTIVITY DATA

Stability	Unstable		Conditions To Avoid
	Stable	X	None
Incompatibility (Materials to avoid): -			
Hazardous Decomposition Products : -			
Hazardous Polymerization	May Occur		Conditions To Avoid
	May Not Occur	X	None

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SECTION 11 – TOXICOLOGICAL INFORMATION

Acute	Inhalation – irritation of the respiratory tract. Skin contact – prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. Eye contact – conjunctivitis, cornea irritation Ingestion – gastro-intestinal pain
Chronic	Overexposure may result in vomiting and difficulty in breathing.

SECTION 12 – ECOLOGICAL INFORMATION

Environmental Mobility	Low volatility. The product is water soluble.
Environmental Degradability	The product is readily biodegradable by reaction with carbon dioxide in the air.
Ecotoxicity & Bioaccumulation	Very low acute toxicity to aquatic organisms is expected. Long term adverse effects to aquatic organisms are not expected.

SECTION 13 – DISPOSAL CONSIDERATION

Containers should be taken for recycling, recovery or disposal by approved licensed collector in accordance to federal, state and local regulations.

SECTION 14 – TRANSPORT INFORMATION

Land Transport
This product is considered as “non-class” for road/rail transport.
Air Transport
This product is considered as “non-class” for air transport.
Sea Transport
This product is considered as “non-class” for sea transport.

SECTION 15 – REGULATORY INFORMATION

Hazardous Substances Labeling:
None
Risk Phrases:
R 36/37 Irritating to eyes and respiratory system
Safety Phrases:
S 2 Keep out of reach of children
S 26 In case of contact with eyes, rinse with plenty of water immediately
S 27 Take off immediately all contaminated clothing
S 37/39 Wear suitable gloves and eye/face protection

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Water Hazard Class
Not applicable

SECTION 16 – OTHER INFORMATION

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product feature and shall not establish a legally valid contractual relationship.