



Redox Chemical Pte Ltd

63 Tuas View Walk 2, Westlink Techpark, Singapore 637631
Tel: 62682355 Fax: 62687336 Email: general@redox.com.sg

SAFETY DATA SHEET


SECTION 1. Identification

Product Identifier:	CleanMaster Multi-Purpose Cleaner
Other means of identification:	Multi-purpose water-soluble cleaner
Recommended Use and Restriction on Use:	To remove organic and inorganic soil and particles without affecting any surfaces
Manufacturer:	REDOX CHEMICAL PTE LTD
Address:	63 Tuas View Walk 2, Westlink Techpark Singapore 637631
Telephone:	065 - 62682355
Facsimile:	065 - 62687336
Emergency Contact:	065 - 96313936
Contact Person:	Ms Fay Lee Lian

SECTION 2. Hazard Identification

GHS Classification:	
Flammable Liquid:	Not Applicable
Acute Toxicity: Oral: Dermal: Inhalation:	Not Applicable
Skin Corrosion/Irritation:	Category 2
Serious Eye Damage/Irritation:	Category 2
Skin Sensitisation:	Category 1
Germ Cell Mutagenicity	Not Applicable
Carcinogenicity:	Not Applicable
Reproductive Toxicity:	Not Applicable
Specific Target Organ Toxicity (Single Exposure):	Not Applicable
Specific Target Organ Toxicity (Repeated Exposure)	Not Applicable

GHS Label Elements:

GHS Pictogram:	
Signal Word:	Warning

Hazard Statements:		H302: Harmful if swallowed H320: Causes Eye Irritation H335: May Cause Respiratory Irritation
Precautionary Statements:	Prevention	P102: Keep out of reach of children P264: Wash hands thoroughly after handling P281: Use personal protective equipment as required P285: In case of inadequate ventilation wear respiratory protection
	Response	P301 + P330 + P331 + P310: IF SWALLOWED: Rinse mouth. DO NOT induce vomiting, Immediately call a doctor P302 + P353 + P332: IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs, get medical advice. P304 + P340 + P313: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention. P305 + P351 + P338 + P337: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advise. P306 + P360: IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
	Storage	P403 + P233: Store in a well-ventilated place. Keep container tightly closed. P235: Keep cool.
	Disposal	P501: Dispose of contents/containers in accordance with federal, state and local regulations.
Other hazards which do not result in classification:		
Primary Hazards		
Secondary Hazards		

SECTION 3. Composition/Information on Ingredients:

Substance/mixture:	Mixture
Other means of Identification:	Not Available

CAS Number/Other Identifiers:	
CAS Number:	Not Applicable
EC Number:	Mixture

Ingredient Name	%	CAS Number
Nonionic Surfactant	< 20.0	127087-87-0

There are no additional ingredients present, which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

SECTION 4: First Aid Measures

Inhalation:

- Move the victim into the fresh air, keep him warm and quiet, cover with a blanket, and send for immediate assistance.
- If the victim is not breathing or is breathing very weakly, loosen his clothing in order to secure an airway and begin artificial respiration.
- If the victim is unconscious but breathing, or is conscious but experiencing breathing difficulties, the provision of oxygen is effective. It is preferable to do this under medical supervision.
- No medicine other than oxygen may be dispensed. No food may be given to the victim without the physician's direction.

Skin Contact:

- If it is spilled on the skin, wash off with copious amounts of soap and water.
- Remove contaminated clothes, shoes, etc. immediately. Cut the clothing off if necessary. Subsequently, rinse the skin with cool or tepid running water for at least 15 minutes,
- Seek medical attention.

Eye Contact:

- If a contact lens is in place, remove it and wash the eye with running water for at least 15 minutes unless the lens is firmly attached to the eye. Use saline solution if it is readily available.
- Do not stop rinsing the eye. During the rinse, open the eyelid with your fingers so that water can reach under the eyelid. Send for an ophthalmologist immediately. An ophthalmologist examination is absolutely essential because the possibility exists that there may be after effects even if there are no immediate pain or vision problems

Ingestion:

- Do not attempt to make the victim vomit.
- Rinse the mouth out thoroughly with water.
- Give the victim 1 – 2 glasses of water to dilute the quantity of the product in the stomach. If milk is readily available, this may be given to the victim after the water.
- If the victim vomits on his own accord, bend his body so as to prevent the vomit from entering the lungs. After vomiting, allow him to drink more water. Keep him warm and seek medical attention immediately.

Most Important Symptoms/ effects, acute and delayed

Skin irritation, reddening, eye irritation, blurred vision, pain in the respiratory tract and/ or lungs, burning sensation, coughing, breathing difficulty, shortness of breath, stomach cramping, abdominal pain, vomiting and headache.

Indication of Immediate medicated attention and special treatment needed, if necessary

- It is often the case that symptoms of lung oedema appear only after two or more hours. It can worsen if the victim is not kept quiet. It is, therefore, essential to keep the victim quiet and closely monitor his condition.

Protection of First-Aid Providers:

None

SECTION 5: Fire-Fighting Measures

Suitable Fire-Extinguishing Media:	Use dry chemical, Carbon dioxide, foam
Specific Hazards arising from the product:	None
Special Protective Actions for the fire fighters:	When fighting fire, wear protective equipment (ie. gloves, boots, goggles, mask, respirator apparatus, protective clothing, etc). Use water spray to cool containers.

SECTION 6: Accidental Release Measures

Personal Precautions, protective equipment and emergency measures:	Wear appropriate protective equipment (ie. respiratory apparatus, protective clothing, gloves, boots, goggles, etc).
Environmental Precautions:	Prevent entry to sewers, open drains and waterways.
Methods and Materials for containment and cleaning up:	Barricade the area with booms, socks or sand bags. Cover spill with sawdust or vermiculate. Scoop into appropriate container. Dispose contaminated materials by approved licensed collector in accordance to federal, state and local regulations.

SECTION 7: Handling and Storage

Precautions for Safe Handling:	Keep the working environment below the occupational exposure limits or permissible exposure level for the product. After handling, wash hands and face thoroughly. No eating, drinking or smoking during work. Wash hands with soap before eating or smoking
Conditions for Safe Storage, including any incompatibilities:	The storage area should be kept tidy and well organized. Containers should be stored tightly closed. Keep the containers in a cold well-ventilated place.

SECTION 8: Exposure Controls/Personal Protection

Control Parameters/Occupational Exposure Limits:	Singapore PEL long term ACGIH TLV-TWA
Appropriate Engineering Control Measure:	Local exhaust ventilation usually required. If risk of overexposure exists (eg in enclosed area), wear approved respirator.

Individual Protection Measures, such as Personal Protective Equipment (PPE):



Use the appropriate protective equipment as required:
approved respirator, rubber gloves, chemical splash goggles, safety boots, protective clothing.
The protective equipment should be checked periodically.
Do not eat, drink or smoke while working.
Wash hands with soap and water before eating or smoking

SECTION 9: Physical and Chemical Properties

Appearance physical state:	Liquid
Colour:	Red
Odour:	Mild Inoffensive
Odour Threshold:	Not Applicable

Property:	Value:	Notes:
Melting Point:	Not Applicable	
Boiling Point:	101°C	
Flash Point:	Not Applicable	Closed Cup
Flammable Limit:	Not Applicable	Lower Limit
Flammable Limit:	Not Applicable	Upper Limit
Vapour Pressure:	Not Applicable	
Vapour Density:	Not Applicable	
Relative Density:	1.01	(± 0.05)
Solubility:	Completely in water	
Partition Coefficient: n-octanol/water	Data not available	
Viscosity (at 20°C)	20 mPa.s	
Molecular Mass	Not Applicable	
pH	9.0	(± 0.5)
Evaporation Rate	Not Applicable	
Flammability (Solid, Gas)	Not Applicable	
Auto-Ignition Temperature	Not Applicable	
Decomposition Temperature	Not Determined	

SECTION 10: Stability and Reactivity

Reactivity/ Incompatible materials:	None
Chemical Stability:	The product is stable under normal condition of use.
Possibility of Hazardous Reaction:	None
Conditions to avoid:	None
Hazardous Decomposition Products:	None

SECTION 11: Toxicological Information

Acute Toxicity

- Low order of acute toxicity.

Skin Irritation

- Prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

Eye Irritation

- Some ingredients in the product may cause mild to moderate level of eye irritation, resulting in conjunctivitis and cornea irritation.

Skin Sensitization

- Not available.

Germ Cell Mutagenicity

- Not available.

Carcinogenicity

- Not available.

Reproductive Toxicity

- Not available

Specific Target Organ Toxicity

- Not determined

Aspiration Hazard

- No information

SECTION 12: Ecological Information

Acute Toxicity:

Very low acute toxicity to aquatic organisms is expected. Long-term adverse effects to aquatic organisms are not expected.

Mobility:

Low volatility. The product is water-soluble.

Mobility in Soil:

No Data

Persistence/Degradability:

The product is readily biodegradable by reaction with carbon dioxide in the air.

Bioaccumulation:

Not expected to bioaccumulate significantly.

SECTION 13: Disposal Considerations

Dispose of in accordance with all applicable local, federal, state and national regulations.

Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

SECTION 14: Transport Information

Types of Shipment	Land (ADR)	Sea (IMDG)	Air (IATA)	Sea (Annex II of Marpol 73/78 and the IBC Code)
UN Number	-	-	-	-

UN Proper Shipping name	CleanMaster Multi-Purpose Cleaner			
Transport Hazard Class (es)	Not classified as dangerous goods			
Enviromental Hazards	No	No	No	No
Marine Pollutant	No	No	No	No
Special Precautions for User	Not available	Not available	Not available	Not available
Additional Information	-	-	-	-

SECTION 15: Regulatory Information

EC Label Name:	CleanMaster Multi-Purpose Cleaner
Hazard Symbol:	Warning

Applicable national regulations:

Workplace Safety and Health Act & Workplace Safety and Health (General Provisions) Regulations: This product is subject to the SDS, labeling, PEL and other requirements in the Act/ Regulations.

Environmental Protection and Management Act and Environmental Protection and Management (Hazardous Substances) Regulations. This product is subject to the requirements in the Act/ Regulations.

Maritime and Port Authority of Singapore (Dangerous Goods, Petroleum and Explosives) Regulations. This product is subject to the requirements of this Regulations.

International Regulations:

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

SECTION 16: Other Information

SDS Version Number:	1
SDS Prepared	July 19, 2022

Disclaimer

The information, data and recommendations set forth herein (the information) are presented in good faith and to the best of our knowledge are believed to be correct as of the date hereof. However, neither the above-named manufacturer/company, nor any of its suppliers, assumed liability whatsoever for the completeness and accuracy of the information contained herein. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

The information is provided upon the condition that the user using the information will make their own determination as to its suitability for their intended purposes prior to use. Any use of the information must be determined by the user to be in accordance with applicable national and/or local laws and regulations. In no event will the above-named company/manufacturer be responsible for damages of any nature whatsoever resulting from the use or reliance upon the information. No representations or warranties either express or implied of merchantability, fitness for a particular purpose or of any other nature are made with respect to the information or the product to which the information refers.

REDOX CHEMICAL