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KLEN 1806 **Water Base Corrosion Inhibitor**

Product Description

KLEN 1806 prevent corrosion by creating a dense physical barrier in the form of a hydrophobic monolayer of chemisorbed molecules on the metal surface. This layer prevents the access of water and oxygen to the surface. It is safe and non-flammable, non-toxic, easy to handle and requires no special precaution to store or use.

Areas of Use

KLEN 1806 replaces conventional ways of preventing rusting by film forming the metal surface. For protection of metal surfaces after acid washing, and many other wide application in corrosion inhibition. Also for use in hydrostatic testing.

Special Features

- Low odour
- Low toxicity
- Excellent hard water stability
- Corrosion protection for ferrous and non-ferrous metals

Directions for Use


Dilute 1: 20 for spray-on application on metal surfaces.

Dilute 1: 60 for soaking method to prevent surfaces from corrosion.

Precautions

As with all chemical products, avoid ingestion and eye contact. Wash hands thoroughly with soap and water after use.

SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION				
Product Identifier: KLEN 1806		Supplier: Klenco (Singapore) Pte Ltd. Address: 18 Gul Crescent, Singapore 629527 Department: Chemical Person in Charge: Chemist		
Other means of identification: Water base corrosion inhibitor		Phone: (65) 6862 3388		
Date of SDS: 1 January 2020		Fax: (65) 6861 7575		
Recommended use and restriction on use: KLEN 1806 is ideal for preventing corrosion on metal surfaces by spraying or soaking method.		Email: info@klenco-asia.com Emergency contact: (65) 6862 3388 Ext 249		
SECTION 2 - HAZARDS IDENTIFICATION				
GHS classification: Acute toxicity: Category 4; Eye irritation: Category 2				
GHS label elements: Pictogram:		Signal words: Warning		
				
Hazard statements:		H302: Harmful if swallowed H320: Causes eye irritation		
Precaution statements:		P102: Keep out of reach of children. P233: Keep container tightly closed. P262: Do not get in eyes.		
SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS				
Chemical Identification	Component & Composition	Chemical Formula	CAS NO.	EC NO.
Ethanolamine	< 10.0%	C ₂ H ₇ O	141-43-5	205-483-3
Oleoyl Sarcosine	< 10.0 %	C ₂₁ H ₃₉ NO ₃	16693-85-9	203-749-3
Water	> 80.0 %	H ₂ O	7732-18-5	231-791-2
SECTION 4 – FIRST AID MEASURES				
Eye Contact: Flush with cool water for at least 15 minutes. Then consult a physician immediately if irritation persists.				
Skin: Wash with large amounts of soap and water. If irritation persists, consult a physician.				
Ingestion: Do not induce vomiting. Dilute by drinking water. Call a physician immediately.				
Inhalation: Move to area of fresh air. If breathing has stopped, artificial respiration should be started, oxygen may be administered if available. Call a physician. Never give anything by mouth to an unconscious person.				
Notes to Physicians: Treatment should be directed at preventing absorption, administering to symptoms (if they occur), and providing supportive therapy.				
SECTION 5 – FIRE FIGHTING MEASURES				
Extinguishing Media: Water, Dry Chemical, Carbon dioxide and Foam.				
Special Fire Fighting Procedure: Fire fighters may be exposed to the products of combustion should wear a self-contained breathing apparatus with full protective equipment				
Unusual Fire/Explosion Hazards: None				
Hazardous Decomposition Products: Burning can produce carbon dioxide and/or carbon monoxide .				
SECTION 6 - ACCIDENTAL RELEASE MEASURES				
Evacuation: No special procedures are usually necessary.				
Containment: Stop spill at source. Contain material, as necessary, with dike or barrier. Mop, shovel or absorb with inert material and place in sound containers. Rinse remaining residue with excess water.				
Collection And Disposal: Prevent run-off . Use proper protective equipment. Cover spills with absorbent clay, sawdust or inert material and place in closed chemical waste containers. Dispose of according to applicable local, state and federal regulations.				
SECTION 7 - HANDLING AND STORAGE				
Storage Conditions: Store in cool, dry, well ventilated area at room temperature.				
Transfer: No special precautions are needed. Follow good manufacturing and handling practices.				
Personal Hygiene: Wash thoroughly with water after handling and before eating and/or drinking. Launder contaminated clothing before re-use.				
Empty Container Precautions: Do not re-use empty container for food, clothing or products for human or animal consumption or where skin contact can occur.				

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION	
Exposure Guidelines:	
ACGIH - TLV: Provide suitable personal protective equipment and/or ventilation to maintain exposure below TLV levels.	
Engineering Controls/Ventilation: Normally ventilation is not required	
Respiratory Protection: Normally not required.	
Eye Protection: Normally not required. Safety glasses / goggles can be worn if splashing is anticipated.	
Hand Protection: Not required.	
Other Protective Clothing: Normal work clothing covering arms and legs if splashing anticipated..	
SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES	
Appearance & Odour: Clear Amber Liquid .	
Solubility in water: Complete.	
Boiling Point: 100 ° C	
Specific Gravity: 1.010 +/- 0.01 g/cm ³	
PH: 8.0 +/- 0.5	
Vapour Pressure: Not Determine	
Vapour Density: Not Determine	
Flash Point (T.C.C.): > 200 deg C	
SECTION 10 - STABILITY AND REACTIVITY	
Chemical Stability: Stable under normal conditions of use.	
Hazardous Polymerization: Will not occur.	
Conditions to Avoid: Not applicable.	
Incompatibility With Other Materials: None	
SECTION 11 - TOXICOLOGICAL INFORMATION	
Components: This product contains trace amount of amine that may cause mild irritation in eyes and skin of some individuals.	
Toxicity: Oral LD 50 (rat) : > 5000 mg/kg	
SECTION 12 - ECOLOGICAL INFORMATION	
Environmental Fate and Distribution: It is soluble in water and does not bio-accumulate. Product is Biodegradable.	
Persistence and Degradation: Product degrades readily by action of microorganism.	
SECTION 13 - DISPOSAL CONSIDERATIONS	
Disposal: Dispose off in an approved waste facility according to local regulations.	
General Recommendations:	
Of the methods of disposal currently available, it is recommended that an alternative be selected according to the following order of preference, based upon environmental acceptability: (1) Re-cycle or rework, if feasible (2) Incinerate at an authorized facility (3) treat at an acceptable waste treatment facility.	
SECTION 14 - TRANSPORT INFORMATION	
This material is non-regulated and no special requirement is necessary. HS Code: 34021990	
SECTION 15 - REGULATORY INFORMATION	
International regulation:	
Classification: This product has not been allocated any classification.	
Risk phrases:	R22 Harmful if swallowed
	R36 Irritating to eyes
Safety phrases:	S02 Keep out of reach of children
	S07 Keep container tightly closed
	S25 Avoid contact with eyes
SECTION 16 - OTHER INFORMATION	
Hazard Rating: HMIS (Hazardous Materials Information System)	
HEALTH : 1	
FLAMMABILITY : 0	
REACTIVITY : 0	
0=Minimal , 1=Slight , 2=Moderate , 3=Serious , 4=Extreme	

NOTICE: MSDS is correct at date of publication. It is not necessarily fully adequate for every circumstance, nor to be confused with or followed in violation of applicable laws or insurance requirements. Health hazards and effects of over-exposure apply only to negligent handling or misuse of product in its concentrated form (as supplied); and not routine exposure to diluted product under normal use. No warranty, express or implied, of merchantability, fitness or accuracy of data is made; as such the vendor assumes no responsibility for injury or damages resulting from use of this product.