



Corroserv (M) Sdn. Bhd.

BIO RUST-OFF

*Unsurpassed rust removal for pennies per square feet
Easy, user friendly with minimum cost.*

Before



After



Best use For Marine Industrial and Offshore Applications.

Distributed by :



Corroserv (M) Sdn. Bhd.

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Caution

Do not use on Galvanize or Zinc or metals containing these. Bio Rust - Off will lightly etch concrete & can be used for this purpose. Bio Rust - Off will also etch Marble and will dissolve Galvanize and Zinc and these are dangerous toxic metals. All claims to the safety of Bio Rust - Off are Void if any contamination occurs.

Packaging

These products if in gel or liquid form, it is supplied in 4 liters per gallon or 20 liters' in 5 gallon containers.

For liquid concentrate, it is supplied in 1 liter concentrate container to be mixed thoroughly with 3 liters of water for the total of 4 liter per gallon.

TABLE OF CONTENTS

1. Introduction

- Bio Rust - Off
- Safety
- Benefits & Features

2. Application Guidelines

3. Impact

4. Material Safety Data Sheet

5. Caution

6. Packaging



Introduction

BIO RUST - OFF

Industrial strength rust stripper for rust and corrosion cleaning. Used correctly Bio Rust - Off results in rust removal to white metal clean.

Use Bio Rust - Off to de-rust assembled machinery, equipment, piping valves, internal of vessels, tanks, offshore gas & oil field related equipment & tools, shipping,

marine, auto restoration, auto parts, maintenance jobs at home & industry. Bio Rust - Off is available in liquid, gel or liquid concentrate.



SAFETY :

Active ingredient of Bio Rust - Off are non hazardous. All claims to safety & Non-toxicity of Bio Rust - Off are based on clean uncontaminated Bio Rust - Off rust stripper solution.

Bio Rust - Off solution is non toxic & non caustic and has rapid biodegradability, produces no dangerous acids & will not burn healthy skin contact. As a precaution use of gloves & eye protection is recommended

If Bio Rust - Off solution contacts eyes flush with fresh water for 15 minutes and irritation persists contact a doctor.

BENEFITS & FEATURES :

Complete rust removal to a sand blast clean metal finish, can be used indoors, nontoxic, no loss of sound metal even if treated for extended periods, will not harm paint, chrome, aluminum, plastic, rubber, glass, porcelain, enamel or disposal and cleanup. Rapidly Biodegradable

Material Safety Data Sheet (MSDS) Pg3of3

BIO RUST - OFF. Rust Stripper.

9. SPECIAL REGULATIONS

Storage and Handling Store in a cool dry well ventilated place away from incompatible material

10. SPECIAL REGULATIONS

Hazard Classification

Not regulated under current DOT, IMO or ICAO regulations	
DOT proper shipping name (49 CFR 1720101-102)	None
DOT Hazard Classification (CFR 172.101-102)	None
DOT labels required (49 CFR 172.101-102)	None
Hazardous Substance (49CFR. CERALA.LIST)	None
DOT Placards required (CFR 172.504)	None
Poison Constituent (49CFR 172.203K)	None
UN Number	None

Transportation and Storage

Bill of lading description	Cleaning Compound
Shipping Containers	Do not ship or store in unlined metal containers. Plastic or paper containers are acceptable.
Storage/transport temperature	Ambient
Electrostatic Accumulation Hazard	None
Storage/transport Pressure	Ambient
Loading/unloading temperature	Ambient

11. ECOLOGICAL INFORMATION

No Data Found
(All compounds that make up product rapidly biodegrade)

12. ADDITIONAL INFORMATION

SARA requires submission of annual reports of release of Toxic chemicals that appear in 40CFR372. This information must be included in all MSDS's that are copied and distributed for this material. Components present in this product that require reporting under this statute are, **NONE**.

NOTICE

While Global Plexus Sdn Bhd believes that the data set forth herein are accurate as of the date hereof. Global Plexus Sdn Bhd makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data are offered solely for your consideration, investigation and verification.

Material Safety Data Sheet (MSDS) Pg2of3

BIO RUST - OFF. Rust Stripper.

5. HEALTH HAZARD INFORMATION

Dust may irritate eyes

First Aid	Considered an irritant characteristic of mild organic acids.
Eyes	In case of eye contact, immediately flush eyes with fresh water for 10 minutes. Seek medical attention immediately.
Skin	Mild irritant. Wash skin with soap and water. Remove contaminated clothing and wash before reuse.
Inhalation	Breathing dust may irritate the nose and throat. Remove to fresh air.
Ingestion	Treatment normally not required. Material generally recognized as safe.

TOXICITY

Oral	Rat, LD50>1548 MG/Kg.
Dermal	Rabbit, 500Mg/24Hr. = Moderate irritation
Inhalation	Not Established
Eye	750 Mg/24 Hr. = Severe
Carcinogenicity	The compounds in this material are not considered to be carcinogens by the National Toxicology Program, the International Agency for Research on Cancer or the Occupational safety and Health Administration.
TSCA	The compounds of this product are on the TSCA inventory.

6. REACTIVITY DATA

Stability	Stable
Incompatibility	Strong oxidizers, reducing agents, acids, bases
Hazardous decomposition	None known
Hazardous Polymerization	Will not occur

7. SPILL OR LEAK PROCEDURES

Action to take for Spills or Leaks:	Flush with water as necessary.
Waste Disposal Method :	Must comply with applicable federal, state and local regulations. This product, if disposed of is not a hazardous waste under Current RCRA regulations.

8. SPECIAL PROTECTION INFORMATION

Respiratory Protection	None Required
Ventilation Standard	No special requirements
Eye Protection	Safety Glasses with Side Shields
Protective Clothing	Dust protection
Other protective Equipment	Eyewash should be available

Application Guideline

Bio Rust - Off is supplied in liquid solution. Stir the solution, prior to de-rusting. Remove all grease and oil from items to be de rusted.

For best results use in the temperature range between 75 F and 105 F. Allow Bio Rust - Off time to penetrate and completely dissolve all rust. Below 70°F rust dissolving will be extended.

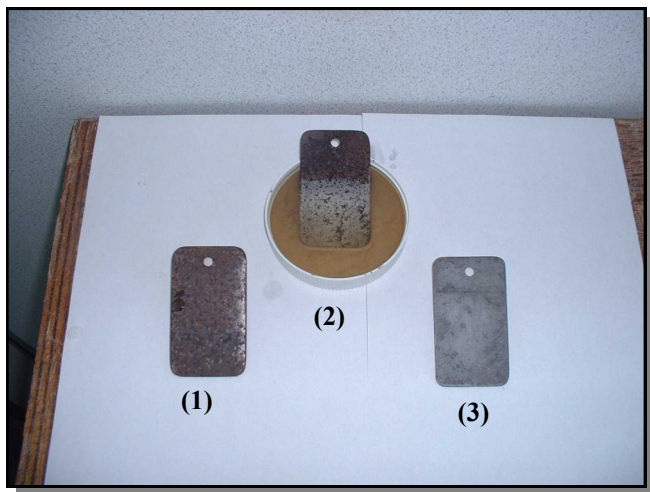
Dip rusted item in solution or fill vessels pipes tanks etc. Items too large to dip can be sprayed (deluged) with solution. Items being sprayed must be kept fully wetted with solution until all rust is dissolved. Runoff solution from a spray application can be caught and used repeatedly until stripper is depleted of rust dissolving capacity. Very light rust is easily removed by applying solution directly to the affected area with a cloth and rubbing.

When all rust is fully dissolved, test an area of heaviest rust to determine this, next wash or hose off rust sludge residue with water and dry. To delay re-rusting, a suitable rust inhibitor should be added to final wash down water delays the re-rust process for 3 to 5 days.

Bio Rust - Off rust stripper solution can be used repeatedly until solution is eventually depleted of rust dissolving effectiveness.



Impact



1. *Sample of Rusted Steel*
2. *Lower half of the steel plate immersed in liquid Bio Rust - Off showing rust removal in progress.*
3. *Rust completely removed in just few minutes or hours depending on the severity of corrosion.*

Material Safety Data Sheet (MSDS) Pg1of3

BIO RUST - OFF. Rust Stripper.

Material Data Sheets are required by OSHA's hazard communication law for products which hazardous. This product is **NOT CONSIDERED HAZARDOUS** AS DEFINED BY THE OSHA HAZARD COMMUNICATIONS STANDARD however Global Plexus Sdn Bhd provides this MSDS to help our customer exercise prudent care when handling this product.

1. PRODUCT IDENTIFICATION

Manufacturers Name	Global Plexus Sdn Bhd
Address	A-25 1 st Floor, Jalan 1M 3/11, Bandar Indera Mahkota, 25200 Kuantan Pahang, Malaysia.
Trade Name	Bio Rust - Off Rust Stripper
Chemical Class	Mixture of organic compounds
Telephone	(609) 5735623
Fax No	(609) 5735562

2. HAZARDOUS INGREDIENTS

HAZARD RATING*(Ingredient Suppliers)		HMIS Rating	
Health	: 1	Health	: 1
Fire	: 0	Fire	: 0
Reactivity:	0	Reactivity:	0
Special	: None		
Exposure Limits, ppm:			
Hazard rating Scale:		OHSA	ACGIH
OTHER			
0.	Minimal	3. Serious	PEL TLV LIMIT
1.	Slight	4. Severe	
2.	Moderate	NONE	NONE NONE

3. PHYSICAL DATA

Initial Boil Temp	(Deg.F) 212	Specific Gravity	N/D
Vapor Pressure (mmHg)	17.5 @ 66Deg.F	Melting Point	N/A
Solubility in water	Soluble	pH	Acidic
Appearance	Light Blue Solid	Evaporation Rate	Water - 1
Odor	Odorless	Percent Volatile	N/A

4. FIRE AND EXPLOSION DATA

Flash Point (Degree F)	Not applicable	Flammable Limits	N/A
Auto-ignition Temperature	Not applicable		
Extinguishing Media	Not Combustible		
Unusual Fire and Explosion Hazards	None		
Special fire fighting procedures	None		

*In contact with an open flame this material will char but does not burn.