



material safety data sheet :

IRON DUST CLEANER™

DESCRIPTION :

IRON DUST CLEANER is a concentrated aqueous liquid solution consisting of a blend of synergetic antioxidants and passivators. It is used to remove iron dust from any steel surface area and iron dust stains from brass, copper, stainless steel, wood, ceramic and aluminum surfaces, painted or not. IRON DUST CLEANER can be used for cleaning cargo holds from Hot Briquetted Iron (HBI) contamination, after unloading the cargo, with great success.

ADVANTAGES AND CHARACTERISTICS :

- Readily removes iron dust and rust stains from metal and non-metal surfaces.
- Removes iron dust contamination from cargo hold surfaces after unloading Hot Briquetted Iron (HBI) cargoes.
- Non-flammable, does not affect rubber or plastic compounds.
- May be used with a specific range of other cleaning products
- IRON DUST CLEANER is not harmful to the marine environment as per MARPOL MEPC 63 Annex V Amendment [MEPC. 71/17/Add.1 Annex 21, Resolution MEPC 295 (71)]

PHYSICAL PROPERTIES :

IRON DUST CLEANER is a non-flammable mixture of special acids, passivators and emulsifiers.

Appearance/Color : Clear, colorless liquid

Specific Gravity : 1.15 - 1.17 gr/cm³ at 20 °C

pH value : 0.8 - 2.0

Solubility in water : Complete

Odor : Odorless

APPLICATION AND USE :

A. Dosing Procedure The quantity of IRON DUST CLEANER to be used cannot be directly specified, since it depends on the cleaning results desired and the situation at hand. The user is the one responsible to regulate the quantity needed. However, when the cleaning application is determined, IRON DUST CLEANER must be used diluted with fresh water with a percentage concentration ranging between 10-50% depending on the desired strength of the solution.

***Note** that a 10% solution is sufficiently strong and it can be used for most general/everyday situations involving rust. A solution of 30% - 50% solution is recommended when we have very difficult cases, involving areas that are contaminated with dust contamination from Hot Briquetted Iron (HBI) cargo.

B. Cleaning Procedure Before application, when the affected area has been determined, ensure the absence of oil, grease, dirt or other foreign matter. Then shake the IRON DUST CLEANER well and prepare the desired concentration solution. The solution may now be applied either by brushing and/or injection. Smaller parts may be immersed directly into the prepared solution. In all of the above situations, you must allow IRON DUST CLEANER to act for 20-30 minutes and then rinse thoroughly with high or regular pressure fresh water.

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SAFETY AND HANDLING:

HANDLING	Handle with care. Store in a dry, cool and well ventilated environment.
SAFETY	IMMEDIATE ACTIONS.
Eye Contact	Avoid Eye contact. Otherwise, flush with plenty of water for a few minutes. Seek medical attention.
Skin Contact	Avoid Skin contact. Otherwise, wash contaminated area thoroughly with water. Seek medical attention.
Inhalation	Do not breathe gas/vapors. Otherwise, seek fresh air source at once. Seek medical attention. In case of insufficient ventilation, wear suitable respiratory equipment.
If Swallowed	Avoid ingestion. Otherwise, consume a considerable quantity of water. Do not induce vomiting. Seek medical attention.
GENERAL INSTRUCTIONS	Avoid spillage, splashing and mishandling. Precautionary measures for body protection are strongly recommended before use

Read the Material Safety Data Sheet before using this product.

For detailed information on safety and health, please refer to Material Safety Data Sheet and/or Product Label.

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