



SAFETY DATA SHEET

This SDS complies with GHS Revision 5, OSHA 29CFR 1910.1200

Product: Scale Removal

Section 1: Manufacturer and Distributor

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Version number	3.2

Section 2: Product Identification

Product	Scale Removal
Formula	Preparation/Mixture
Usage	Industrial Chemical cleaning product to remove scale

Section 3: Hazards Identification

GHS Hazard Class	Eye Damage/Irritation Category 2.
Signal word	Warning.
Hazard Statment	Causes serious eye irritation.
Hazards not otherwise classified (HNOC)	None.
Hazard classification	Not classified as hazardous (IATA, IMDG, and DOT).
Fire and explosion	Not considered flammable or combustible.
Potential health effects	None toxic.
Appearance	Transparent liquid.

NFPA Rating

Component	Scale Removal		
Health (Blue)	Flammability (Red)	Reactivity (Yellow)	Special (White)
1	0	0	0

Section 4: Composition and Ingredients Information

PRODUCT COMPOSITION	APPROX %	CAS NO.	CANADA DSL
inorganic acid salts	TS	TS	Y
Wetting agent	TS	TS	Y
Organometallic acid salt	TS	TS	Y
Sulfates	TS	TS	Y
Organic dispersant agent	TS	TS	Y
Water	43- 45 %	7732-18-5	Y



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Some items on this SDS may be designated as trade secrets (TS). Bonafede requests for disclosure of trade secret information to medical personnel must be made in accordance with the provisions contained in 29 CFR 1910.1200 I 1-13.

Section 5: First Aid Measures

Inhalation	Not an inhalation hazard.
Skin Contact	Thoroughly rinse solution off skin with soap and water. If an itching sensation or redness occurs, contact a physician.
Eye Contact	Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.
Ingestion	If swallowed, drink one or two glasses of water. Never give anything to an unconscious person. If intestinal symptoms occur, contact physician.
Most important symptoms and effects, both acute and delayed	
Symptoms/Injuries after Inhalation	May cause respiratory tract irritation.
Symptoms/Injuries after Skin Contact	May cause skin irritation. Symptoms may include redness, drying, defatting, and cracking of the skin.
Symptoms/Injuries after Eye Contact	May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
Symptoms/Injuries after Ingestion	May be harmful if swallowed. May cause stomach distress, nausea, or vomiting.

Indication of any immediate medical attention and special treatment needed.
Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately.

Section 6: Fire-fighting Measures

Suitable extinguishing media	Use foam, dry chemical, or carbon dioxide.
Special hazards arising from the substance or mixture	No data available.
Protective actions fire-fighters	Wear standard protective equipment and self-contained breathing apparatus for firefighting if necessary.
Further information	Use water spray to cool unopened containers.

Section 7: Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures	Wear proper personal protective equipment. Avoid breathing vapors or mist.
Environmental precautions	None
Methods and materials for containment and cleaning up	Small spills: flush with water. Large spills: contain the spill, if possible. Flush with water.

Section 8: Handling and Storage

Precautions for safe handling
Use only with adequate ventilation.
Wear proper protective equipment when handling this material.
Avoid contact with skin, eyes, or clothing.
Wash hands after handling this material. For precautions see section 3.

Conditions for safe storage, including any incompatibilities

Specific uses

Scale Removal may be stored in most any area, but should be kept away from direct heat or in an area where temperatures can reach over 160 °F for prolonged periods of time. Shell life: over 3 years, use within 3 years.

Industrial Chemical cleaning product to remove scale

Section 9: Exposure Controls/Personal Protection

Control Parameters Contains no substances with occupational exposure limit values.

Exposure controls

Ventilation

Always provide adequate ventilation where this material is used.

Special ventilation controls

None

Respiratory protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or the CEN

European standards (EU)

Use a NIOSH/MSHA or European Standard (EN) approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Canadian CSA Standard Z94.4-93.

Protective gloves

Neoprene, butyl, or nitrile rubber gloves are recommended.

Eye protection

Recommend eye protection using safety glasses or goggles.

Skin protection

Suitable protective clothing to prevent skin contact.

Work/hygiene practices

Avoid breathing mist. Avoid contact with eyes. Wash hands after handling.

Other equipment

Make safety shower, eyewash stations, and hand washing equipment available in the work area.

Section 10: Physical and Chemical Properties

Appearance - color

Transparent liquid

Physical state

Liquid

Odor

Slight chemically odor

Odor threshold

Data not available

Ph

Acidic

Melting point/freezing point

< -15°C Initial

boiling point and boiling range point

> 120°C Flash

Evaporation rate

Data not available

Flammability (Solid, gas)

Not applicable

Upper/lower flammability or explosive limits

Not flammable

Vapor pressure

Data not applicable

Vapor density (air = 1)

Data not applicable

Specific gravity (@25 °C)

1.09 g/ml

Solubility(ies)

Miscible with water

Oxidizing properties

Data not applicable

Partition coefficient:

Data not applicable

Auto ignition temperature

Data not applicable

Decomposition temperature

Data not applicable

Viscosity

30 – 35 cP

Explosive properties

Data not applicable

Section 11: Stability and Reactivity

Reactivity	reactive
Chemical Stability	Stable
Possibility of Hazardous Reactions	None
Conditions to Avoid	None
Incompatibility (Materials to Avoid)	None
Hazardous Decomposition Products	None

Section 12: Toxicological Information

GHS Required Criteria	Toxicity Criteria	Toxicity Information	Comments	Chemical Constituent
Acute Toxicity	ATE LD50 (Oral/Rat)	Data not available	Not applicable	Product
	ATE LD50 (Dermal/Rabbit)	Data not available	Not applicable	Product
	ATE LC50 (Inhalation/Rat)	Data not available	Not applicable	Product
Skin Corrosion/Irritation	No irritation observed			Stabilizers
Serious Eye Damage /Eye Irritation	transient mild eye irritation and increased tears production.	Category 2A		Stabilizers
Respiratory or Skin Sensitization		Data not available		
Germ Cell Mutagenicity	Data not available			
Carcinogenicity	NTP	Not Listed		
	IARC	Not Listed		
	OSHA	Not Listed		
Reproductive Toxicity	Data not available			
STOT -- Single Exposure	Data not available			
STOT -- Repeated Exposure	Data not available			
Aspiration Hazard	Data not available			

Section 13: Ecological Information

Toxicity:	Non
Persistence and degradability:	biodegradable
Bio-accumulative potential:	8% biodegradation after 45 days
Mobility in soil:	Data not available
PBT and vPvB assessment:	PBT/vPvB assessment not available as chemical assessment not required/not conducted
Other adverse effects:	Data not available

Section 14: Disposal Considerations

Waste from residues/unused products: Follow the waste disposal requirements of your country, state, or local authorities.
 Contaminated packaging: Contaminated packaging material should be disposed of as stated above for residues and unused product.
 Rinsate: safe disposal of rinse water containing product in a sanitary sewer system or storm water drainage system.

Section 15: Transport Information

Dot transport	Not Regulated
Sea transport IMDG	Not Regulated
Air transport IATA/ICAO	Not Regulated

Scale Removal is not classified as a hazardous material and can be shipped without restriction regardless of shipment method.

Section 16: Regulatory Information

TOXIC SUBSTANCES CONTROL ACT (TSCA) STATUS:

This product is in compliance with rules, regulations, and orders of TSCA. All components are either listed on the TSCA inventory or are considered exempt.



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SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III SECTION 313 SUPPLIER NOTIFICATION:

This regulation requires submission of annual reports of toxic chemical(s) that appear in section 313 of the Emergency Planning and Community Right To Know Act of 1986 and 40 CFR 372. This information must be included in all SDS's that are copied and distributed for the material.

The Section 313 toxic chemicals contained in this product are: None

CALIFORNIA PROPOSITION 65:

This regulation requires a warning for California Proposition 65 chemical(s) under the statute. The California proposition 65 chemical(s) contained in this product are: None

STATE RIGHT-TO-KNOW TOXIC SUBSTANCE OR HAZARDOUS SUBSTANCE LIST:

Massachusetts's hazardous substance(s): Not listed

Pennsylvania hazardous substance code(s): Not listed

New Jersey hazardous substance code(s): Not listed

CANADA:

WHMIS-2015: This SDS is in compliance with WHMIS 2015 (HPR / new HPA).

EUROPEAN UNION:

This product has been reviewed for compliance with the following European Community Directives: REACH 1907/2006; Regulation (EC) No 1272/2008 on classification, labeling, and packaging (CLP) of substances and mixtures.

Section 16: Other Information

Information Sources:

RTECS, ECHA, REACH, OSHA 29CFR 1910.1200

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