MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT/MANUFACTURER'S IDENTITY

Product Name:	Stain Remover	Chemical Name:	N.A.
Product Use:	Stain Remover agent use on natural stones	Chemical Family:	Oxidizing Agent
Formula:	Proprietary		
Produced By :	DL Shine S.p.A Via Cafiero,22-20158 Milano Tel: +39-02-376731 inquiry@dlshine.com		
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SECTION 2: MATERIAL IDENTIFICATION AND INFORMATION

Chemical Identity	**CAS No.**	**wt%**
Water	7732-18-5	> 80
Chlorate Grade	7722-84-1	< 15
Nonionic Surfactant	9016-45-9	1 - 5

SECTION 3: PHYSICAL/CHEMICAL PROPERTIES

Physical Form:	Liquid
Colour:	Colorless
Odor:	slight
Density/Weight by volume:	Not available
Flash Point:	Non-combustible
Freezing Point:	-15ºC / 6 ºF
Boiling Point:	103ºC / 218 ºF
Specific Gravity:	1.07 @ 20ºC / 4 ºC
Vapor Pressure:	28mmHg @ 30ºC
Vapor Density (Air=1):	Not available
pH:	4.0
Solubility in Water:	100%
Volatile:	100%
Oxidizing Properties:	Strong oxidizer

SECTION 4: HEALTH HAZARD DATA

Emergency Overview:

Contact with combustibles may cause fire

Decomposes yielding oxygen that supports combustion of organic matters and can cause overpressure if confined.

Corrosive to eyes, nose, throat, lungs and gastrointestinal tract.

Potential Health Effects: Corrosive to eyes, nose, throat and lungs. May cause irreversible tissue damage to the eyes including blindness. May cause skin irritation.

SECTION 5: STABILITY AND REACTIVITY DATA

Chemical Stability:	Stable (heat and contamination could cause decomposition).
Conditions to Avoid:	Excessive heat or contamination could cause product to become unstable
Materials to Avoid:	Dirt, organics, woods, cyanides, paper and oil
Incompatible Materials:	Reducing agents, wood, paper and combustibles, iron and other heavy metals, copper, alloys and caustic.
Hazardous Polymerization:	Will not occur

SECTION 6: EMERGENCY FIRST AID PROCEDURES

Eye:	Wash with plenty of water for at least 15 minutes. If irritation develops, consult doctor.
Skin:	Remove contaminated clothing and shoes. Wash affected area with mild soap and plenty of water. If irritation develops, consult doctor. Wash contaminated clothing before reuse.
Inhalation:	Remove to fresh air. If symptoms develop, seek immediate medical attention. If not breathing, give artificial respiration, preferably mouth to mouth.
Ingestion:	Call a poison control centre, emergency room or doctor. Do not induce vomiting. Rinse mouth by giving water. Dilute by giving 1 or 2 glasses of water. Never give anything to an unconscious person.
Notes to Medical Doctor:	Direct contact with eyes is likely to cause cornea damage especially if not washed immediately.

SECTION 7: FIRE AND EXPLOSION HAZARD DATA

Flash Point:	Non-combustible
Auto Ignition Temperature:	Non-combustible
Flammability Limits in Air:	None
Extinguishing Media:	This is a water-based product and is not expected to burn until all the water has boiled away. The residual solids and/or product container may support combustion. Use water, foam, dry chemical, or carbon dioxide.
Fire Fighting Measures:	Fire fighters and other who may be exposed to the products of combustion should be equipped with Niosh approved positive pressure self-contained breathing apparatus and full protective clothing.
Unusual Fire Hazards:	None

<u>Hazardous Decomposition Products</u>

Non-Hazardous

SECTION 8: ACCIDENTAL RELEASE

Procedures to be Taken if Material is Spilled or Released

Stop discharge and contain spill or contaminated material using a dike or barrier. If a substantial quantity is spilled and can be pumped, recover with pumping equipment or a vacuum truck OR Sweep up with a minimum of dust generation and place into suitable clean and dry container. Use appropriate respiratory protection.

Waste Disposal

Deliver to suitable disposal facility. Disposal should be made compliance with federal, state and local environment regulations.

SECTION 9: HANDLING AND STORAGE

Respiratory Protection:	Respiratory protection is not usually required under normal conditions of use.
Protective Gloves:	Rubber or neoprene gloves
Protective Clothing:	Avoid cotton, wool and leather
Eye Protection:	Wear chemical splash type mono-goggles or full-faced shield
Ventilation:	Provide mechanical general and/or local exhaust ventilation to prevent release of vapor or mist into the work environment.

Storage Requirements

Protect from freezing. Store in normal room temperature, dry and well-ventilated area.
Keep out of direct sunlight and away from combustible materials.
Do not store above: 120 °F, 49 °C

Proper Handling Advice: Never return unused chemicals to original container. Empty drums should triple rinsed with water before discarding.

Hygienic and Work Practices

Wash hands thoroughly after handling, especially before eating, drinking, smoking or using restroom facilities. Contaminated clothing and shoes should be thoroughly cleaned and dried before reuse.

SECTION 10: EXPOSURE CONTROL AND PERSONAL PROTECTION

Component Exposure Limits

Components	Cas No.	ACGIH	OSHA
Chlorate Grade	7722-84-1	7722-84-1	1 ppm (PEL)

Engineering Controls

Ventilation:	Minimize release of vapors and mists by providing adequate ventilation. General (dilution) ventilation may be acceptable. However, local exhaust ventilation is recommended.

Personal Protective Equipment for Routine Handling

Eyes:	Wear chemical splash goggles or safety glasses with side shields. An eye wash facility should be readily available.
Skin:	To prevent skin contact, wear protective clothing and appropriate impervious gloves. Because a variety of protective gloves exist, always consult glove manufacturer to determine the proper type for specific operation.

Suitable Gloves:	Wear gloves made of nitrate, PVC or neoprene. Do not use cotton, wool or leather. Thoroughly rinsed the outside gloves with water before removal. Inspect regularly for leaks.
Suitable Respirator:	Use approved atmospheric-supplied respirator.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicology Data for active component in chemical used was less than 20%.

Carcinogenicity:	None Known
Teratogenicity:	None Known
Mutagenicity:	None Known
Reproductive Toxicity:	None Known

Component Toxicology Information

Complete information is not yet available.

Special Hazard Information on Components

Primary Route of Entry:

SECTION 12: ECOLOGICAL INFORMATION

Chemical Fate Information: In the aquatic environment is subject to various reduction or oxidation a process and decomposes into water and oxygen. Half-life in fresh water ranged from 8 hours to 20 days, in air 10 – 20 hours and in soils from minutes to hours depending upon microbiological activity and metal contaminants.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Method: An acceptable method of disposal is to dilute with a large amount water and allow it to decompose followed by discharged into a suitable treatment system in accordance will all regulatory agencies. The appropriate regulatory agencies should be contacted prior to disposal.

SECTION 14: TRANSPORT INFORMATION

DOT Road Shipment Information (49 CFR 172.101)

Dot Marking:	Oxidizer component less than 20%
Primary Hazard Class:	5.1 (Oxidizer)
Placard(s):	5.1 (Oxidizer)
UN/NA Number:	2984
Packing Group:	III
Hazardous substances/RQ:	Not applicable

SECTION 16: OTHER INFORMATION

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These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.