

Safety Data Sheet



Revision Date 23-Sep-2014
Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product name Concrete, Tile & Grout Cleaner
Product code LG-F1155 101-152-A
Recommended Use Cleaning product

Supplier Sapphire Scientific
2604 Liberator
Prescott, AZ 86301
Phone: (928) 445-3030

Emergency telephone number INFOTRAC 1-800-535-5053 (North America)
1-352-323-3500 (International)

2. Hazards identification

DANGER!

Emergency Overview

Corrosive

Potential Health Effects

Acute toxicity

Eyes Causes burns. May cause blindness.

Skin Causes burns.

Inhalation May cause irritation of respiratory tract. Causes burns.

Ingestion Harmful if swallowed. Corrosive! May cause severe irritation or burns to the mouth and the gastrointestinal tract.

Chronic Effects Prolonged skin contact may defat the skin and produce dermatitis. Prolonged or repeated contact may dry skin and cause irritation.

Aggravated Medical Conditions Preexisting eye disorders. Skin disorders. Respiratory disorders.

Environmental hazard See Section 12 for additional Ecological Information.

3. Composition/information on ingredients

Component	CAS-No	Weight %
Sodium hydroxide 1310-73-2 (10-30)	1310-73-2	10-30

4. First aid measures

General advice Show this material safety data sheet to the doctor in attendance. Immediate medical attention is required.

Eye contact	Call a physician immediately. Remove contact lenses. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Skin contact	Call a physician immediately. Wash off immediately with soap and plenty of water. Remove all contaminated clothes and shoes. Use a mild soap if available.
Inhalation	Move to fresh air. Consult a physician after significant exposure. Call a doctor immediately if allergic signs, particularly in the respiratory tract, are observed. If not breathing, give artificial respiration.
Ingestion	Call a physician immediately. Gently wipe or rinse the inside of the mouth with water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Risk of product entering the lungs on vomiting after ingestion.
Notes to physician	Symptoms may be delayed.

5. Fire-fighting measures

Flammable Properties	Not flammable.
Flash point	Not determined.
Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Hazardous Combustion Products	Carbon oxides. Phosphorus oxides. Sodium oxides.
Explosion Data	
Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	None.
Protective Equipment and Precautions for Firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental release measures

Personal precautions	Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist. Do not touch or walk through spilled material.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not allow material to contaminate ground water system.
Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.

7. Handling and storage

Advice on safe handling	Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist. Use only in area provided with appropriate exhaust ventilation.
Technical measures/Storage conditions	Keep locked up or in an area accessible only to qualified or authorized persons. Store between 41 and 77 °F (5 - 25° C) in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Store in original container.

8. Exposure controls/personal protection

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico
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Sodium hydroxide 1310-73-2	Ceiling: 2 mg/m ³	TWA: 2 mg/m ³ (vacated) Ceiling: 2 mg/m ³	IDLH: 10 mg/m ³ Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³
Component	British Columbia	Alberta	Quebec	Ontario TWAEV
Sodium hydroxide 1310-73-2 (10-30)	Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³	CEV: 2 mg/m ³

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Hand Protection

Rubber gloves Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact)

Eye/Face Protection

Goggles.

Skin and body protection

Skin and body protection. Apron.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene measures

When using, do not eat, drink or smoke. Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing before re-use.

9. Physical and chemical properties

Physical state

Liquid

Appearance

Clear liquid

Odor

Mild

Color

colorless

Property

Values

Remarks • Methods

pH

12

Boiling point/boiling range

Flash Point

Evaporation rate

no data available

Explosion Limits

upper

lower

Vapor pressure

no data available

Vapor density

no data available

Specific Gravity

1.15

Viscosity, kinematic

no data available

Water solubility

Soluble in water

Partition coefficient: n-octanol/water

no data available

Explosive properties

no data available

Other information

Volatile organic compounds (VOC) content no data available

Melting/freezing point

10. Stability and reactivity

Stability/Reactivity

Reacts violently with acids.

Incompatible products

Acids. Oxidizing agents. Organic material.

Conditions to Avoid

Do not mix with other chemicals.

Hazardous Decomposition Products Oxides of phosphorus. Carbon oxides. Sodium oxides.

Hazardous Polymerization

Hazardous polymerization does not occur.

11. Toxicological information**Acute toxicity****Product Information**

The product itself has not been tested.

Inhalation

Vapors may irritate throat and respiratory system. Causes burns.

Eye contact

Causes burns. Corrosive to the eyes and may cause severe damage including blindness.

Skin contact

Contact causes severe skin irritation and possible burns.

Ingestion

Harmful if swallowed. Can burn mouth, throat, and stomach.

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium hydroxide		1350 mg/kg (Rabbit)	

Chronic toxicity**Chronic toxicity**

Prolonged skin contact may defat the skin and produce dermatitis
Prolonged or repeated contact may dry skin and cause irritation

Target Organ Effects

Eyes Respiratory system Skin

12. Ecological information**Ecotoxicity**

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates	Toxicity to microorganisms	Toxicity to other organisms
Sodium hydroxide		LC50: 96 h Oncorhynchus mykiss 45.4 mg/L static			

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility

No information available.

Other adverse effects

Discharge into the environment must be avoided.

13. Disposal considerations**Waste Disposal Methods**

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

Proper shipping name	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE)
Hazard class	8
UN/ID No	3266
Packing Group	II
Reportable Quantity (RQ)	8000 LBS

TDG

Proper shipping name	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE)
Hazard class	8
UN/ID No	3266
Packing Group	II
Special Provisions	16

MEX**IATA****IMDG****15. Regulatory information****International Inventories**

TSCA	Complies
DSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies
NZIoC	-

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

"-" - Unknown. Not listed.

U.S. Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium hydroxide	1000 lb			X

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Sodium hydroxide	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

U.S. State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sodium hydroxide	X	X	X		

International Regulations**Canada**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

E Corrosive material

**16. Other information**

NFPA	Health Hazard 3	Flammability 0	Stability/Reactivity 0	Physical and chemical hazards -
HMIS	Health Hazard 3	Flammability 0	Physical Hazard 0	Personal protection B

Prepared By No information available

Revision Date 23-Sep-2014

Revision Note No information available.

Legend:

NIOSH IDLH: Immediately Dangerous to Life or Health

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Material Safety Data Sheet