

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name Overhaul CAS # Mixture

Product use Concrete, Tile & Grout Cleaner

Manufacturer Sapphire Scientific

2604 Liberator

Prescott, AZ 86301 US

Phone: 1-800-932-3030 **Emergency:** 1-800-535-5053

2. Hazards Identification

Emergency overview DANGER -- CORROSIVE

Potential short term health effects

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Eyes Causes chemical burns. May cause blindness.

Skin Causes chemical burns.

Inhalation May cause respiratory tract irritation or chemical burns.

Ingestion Harmful if swallowed. May cause chemical burns to mouth, throat and stomach.

Target organs Eyes. Skin. Mucous membranes. Respiratory system.

Chronic effects Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Signs and symptoms The product causes burns of eyes, skin and mucous membranes.

OSHA Regulatory Status This product is a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

environmental concerns.

3. Composition / Information on Ingredients

Ingredient(s)	CAS#	Percent
Sodium hydroxide	1310-73-2	10 - 30
Phosphonic acid, [nitrilotris(methylene)]tris-, sodium salt	20592-85-2	1 - 5

4. First Aid Measures

First aid procedures

Eye contact Immediately flush with cool water. Remove contact lenses, if applicable, and continue

flushing for 15 minutes. Obtain medical attention immediately.

Skin contact Immediately flush with cool water for 15 minutes while removing contaminated clothing

and shoes. Discard or wash well before reuse. Obtain medical attention if irritation

persists.

Inhalation If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical

attention. If breathing has stopped, trained personnel should administer CPR

immediately.

Ingestion Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce

risk of aspiration. Never give anything by mouth if victim is unconscious, or is

convulsing. Obtain medical attention.

Notes to physician Symptoms may be delayed.

General advice If you feel unwell, seek medical advice (show the label where possible). Ensure that

medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with

eyes and skin. Keep out of reach of children.

5. Fire Fighting Measures

Flammable properties Not flammable by WHMIS/OSHA criteria.

Extinguishing media

Suitable extinguishing media Treat for surrounding material.

Unsuitable extinguishing media Not available

Protection of firefighters

Specific hazards arising from

the chemical

Not available

Protective equipment for

firefighters

Firefighters should wear full protective clothing including self contained breathing

apparatus.

Hazardous combustion products May include and are not limited to: Oxides of carbon. Oxides of phosphorus. Oxides of

sodium.

Explosion data

Sensitivity to mechanical

impact

Sensitivity to static discharge

Not available

Not available

6. Accidental Release Measures

Personal precautions Keep unnecessary personnel away. Do not touch or walk through spilled material. Do

not touch damaged containers or spilled material unless wearing appropriate protective

clothing. Keep people away from and upwind of spill/leak.

Environmental precautions Do not contaminate water.

Methods for containment Stop leak if you can do so without risk. Prevent entry into waterways, sewers,

basements or confined areas.

Methods for cleaning up Before attempting clean up, refer to hazard data given above. Small spills may be

absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency

services and supplier for advice. Never return spills to original containers for re-use.

7. Handling and Storage

Handling Do not get in eyes, on skin or on clothing. Use good industrial hygiene practices in

handling this material. Keep container tightly closed. Use only with adequate ventilation.

Wash thoroughly after handling.

Storage Keep out of the reach of children. Store in a closed container away from incompatible

materials.

8. Exposure Controls / Personal Protection

Exposure limits Ingredient(s)

Exposure Limits

9. Physical and Chemical Properties

Clear. Appearance Colorless Color Form Liquid Odor Mild

Odor threshold Not available Physical state Liquid 12 Hq

Not available Melting point Freezing point Not available Not available **Boiling point** Not available Pour point Not available Evaporation rate Not available Flash point Not available Auto-ignition temperature Flammability limits in air, lower, % Not available

by volume

Phosphonic acid, [nitrilotris(methylene)]tris-, sodium salt

ACGIH-TLV Not established OSHA-PEL Not established

Sodium hydroxide **ACGIH-TLV**

> Ceiling: 2 mg/m3 OSHA-PEL TWA: 2 mg/m3

Use only under good ventilation conditions or with respiratory protection. Engineering controls

Personal protective equipment

Wear chemical goggles. Eye / face protection

Hand protection Rubber gloves. Confirm with a reputable supplier first. Skin and body protection As required by employer code. Rubber apron recommended.

Respiratory protection Where exposure quideline levels may be exceeded, use an approved NIOSH respirator.

Not available Flammability limits in air, upper, %

by volume

Not available Vapor pressure Vapor density Not available Not available Specific gravity Octanol/water coefficient Not available Percent volatile Not available

10. Stability and Reactivity

Reactivity Reacts vigorously with acids.

Possibility of hazardous reactions Hazardous polymerization does not occur. Stable under recommended storage conditions. Chemical stability

Do not mix with other chemicals. Conditions to avoid Oxidizers. Acids. Organic materials. Incompatible materials

Hazardous decomposition products May include and are not limited to: Oxides of carbon. Oxides of phosphorus. Oxides of

sodium.

11. Toxicological Information

Component analysis - LC50				
Ingredient(s)	LC50			
Phosphonic acid, [nitrilotris(methylene)]tris-, sodium salt	Not available			
Sodium hydroxide	Not available			
Component analysis - Oral LD50				
Ingredient(s)	LD50			
Phosphonic acid [nitrilotris(methylene)]tris- sodium salt	2100 mg/kg rat			

Not available

Effects of acute exposure

Sodium hydroxide

Eye Causes chemical burns. May cause blindness.

Skin Causes chemical burns.

Inhalation May cause respiratory tract irritation or chemical burns.

Ingestion Harmful if swallowed. May cause chemical burns to mouth, throat and stomach.

Sensitization Non-hazardous by WHMIS/OSHA criteria.

Chronic effects Non-hazardous by WHMIS/OSHA criteria.

Carcinogenicity Non-hazardous by WHMIS/OSHA criteria.

Mutagenicity Non-hazardous by WHMIS/OSHA criteria.

Reproductive effects Non-hazardous by WHMIS/OSHA criteria.

Teratogenicity Non-hazardous by WHMIS/OSHA criteria.

Name of Toxicologically Synergistic Not available

Products

12. Ecological Information

Ecotoxicity Components of this product have been identified as having potential environmental

concerns.

Ecotoxicity - Freshwater Fish - Acute Toxicity Data

Sodium hydroxide 1310-73-2 96 Hr LC50 Oncorhynchus mykiss: 45.4 mg/L [static]

Persistence / degradability

Bioaccumulation / accumulation

Mobility in environmental media

Environmental effects

Aquatic toxicity

Partition coefficient

Not available

Not available

Not available

Chemical fate information Not available
Other adverse effects Not available

13. Disposal Considerations

Disposal instructions Review federal, state/provincial, and local government requirements prior to disposal.

Waste from residues / unused

products

Not available

Contaminated packaging Not available

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14. Transport Information

U.S. Department of Transportation (DOT)

Basic shipping requirements:

Proper shipping name Corrosive liquid, basic, inorganic, n.o.s. (SODIUM

HYDROXIDE RQ = 8000 lbs)

Hazard class 8

UN number UN3266

Packing group ||

Additional information:

Special provisions B2, IB2, T11, TP2, TP27

Packaging exceptions 154 ERG number 154

Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

Proper shipping name CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.

(SODIUM HYDROXIDE)

Hazard class

UN number UN3266

Packing group

Additional information:

Special provisions 16



15. Regulatory Information

Canadian federal regulations

This product has been classified in accordance with the hazard criteria of the Controlled

Products Regulations and the MSDS contains all the information required by the

Controlled Products Regulations.

Canada - WHMIS - Ingredient Disclosure List

Sodium hydroxide 1310-73-2 1 %

WHMIS status Controlled

WHMIS classification Class E - Corrosive Material

WHMIS labeling



Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous Y

chemical

Yes

US Federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

Sodium hydroxide 1310-73-2 1000 Lb final RQ; 454 kg final RQ

U.S. - CWA (Clean Water Act) - Hazardous Substances

Sodium hydroxide 1310-73-2 Present

CERCLA (Superfund) reportable quantity

Sodium hydroxide: 1000.0000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely

hazardous substance

Section 311 hazardous chemical Yes

Clean Air Act (CAA) Not available

Clean Water Act (CWA) Hazardous substance

State regulations This product does not contain a chemical known to the State of California to cause

cancer, birth defects or other reproductive harm.

U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances

Sodium hydroxide 1310-73-2 Present U.S. - Louisiana - Reportable Quantity List for Pollutants

Sodium hydroxide 1310-73-2 1000 Lb final RQ; 454 kg final RQ

U.S. - Massachusetts - Right To Know List

Sodium hydroxide 1310-73-2 Present

U.S. - Minnesota - Hazardous Substance List

Sodium hydroxide 1310-73-2 Present U.S. - New Jersey - Right to Know Hazardous Substance List Sodium hydroxide 1310-73-2 sn 1706

U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances

Sodium hydroxide 1310-73-2 1000 Lb RQ (air); 100 lb RQ (land/water)

U.S. - Pennsylvania - RTK (Right to Know) List

Sodium hydroxide 1310-73-2 Environmental hazard

U.S. - Rhode Island - Hazardous Substance List

Sodium hydroxide 1310-73-2 Toxic; Flammable

Inventory name

Country(s) or regionInventory nameOn inventory (yes/no)*CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)NoUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

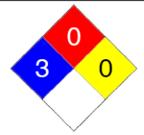
A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0



Health	/	3
Flammability		0
Physical Haza	rd	0
Personal Protectio	n	В



Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

Effective date 01-Dec-2010

Other information For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.

This MSDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.