

Safety Data Sheet



Revision Date 10-Nov-2014
Version 1.01

1. PRODUCT AND COMPANY IDENTIFICATION

Product name Optimal Rinse
Product code W.20352
Recommended Use Professional Carpet Cleaning

Manufacturer Chemspec
 901 North Newkirk Street
 Baltimore, MD 21205

Emergency telephone number Chemtrec: 1-800-424-9300 for US
 +1 703-527-3887 outside US

2. Hazards identification

Emergency Overview

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Potential Health Effects

Acute toxicity

Eyes May cause slight irritation.

Skin No known effect based on information supplied.

Inhalation May be harmful if inhaled.

Ingestion No known effect based on information supplied.

Chronic Effects No known effect based on information supplied.

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 (1-10)	1310-73-2	1-10
ISOPROPYL ALCOHOL 67-63-0 (0.1-1)	67-63-0	0.1-1
COPPER(II) NITRATE 3251-23-8 (<0.1)	3251-23-8	<0.1

4. First aid measures

General advice Show this material safety data sheet to the doctor in attendance.

Eye contact Remove contact lenses. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

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Skin contact	Wash off immediately with soap and plenty of water. Remove all contaminated clothes and shoes.
Inhalation	Move to fresh air.
Ingestion	Gently wipe or rinse the inside of the mouth with water.
Notes to physician	Treat symptomatically.

5. Fire-fighting measures

Flammable Properties	Not flammable.
Flash point	Not determined.
Suitable extinguishing media	Water spray. Foam. Dry powder.
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.
Environmental precautions	No special environmental precautions required.
Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

7. Handling and storage

Advice on safe handling	Wear personal protective equipment.
Technical measures/Storage conditions	Use only in area provided with appropriate exhaust ventilation. Keep tightly closed in a dry and cool place.

8. Exposure controls/personal protection

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico
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
ISOPROPYL ALCOHOL 67-63-0	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m ³ (vacated) TWA: 400 ppm (vacated) TWA: 980 mg/m ³ (vacated) STEL: 500 ppm (vacated) STEL: 1225 mg/m ³	IDLH: 2000 ppm TWA: 400 ppm TWA: 980 mg/m ³ STEL: 500 ppm STEL: 1225 mg/m ³	TWA: 400 ppm TWA: 980 mg/m ³ STEL: 500 ppm STEL: 1225 mg/m ³
COPPER(II) NITRATE 3251-23-8	TWA: 1 mg/m ³ Cu dust and mist		IDLH: 100 mg/m ³ Cu dust and mist TWA: 1 mg/m ³ Cu dust and mist	
Component	British Columbia	Alberta	Quebec	Ontario TWA/EV
Sodium hydroxide 1310-73-2 (1-10)	Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³	CEV: 2 mg/m ³

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ISOPROPYL ALCOHOL 67-63-0 (0.1-1)	TWA: 200 ppm STEL: 400 ppm	TWA: 200 ppm TWA: 492 mg/m ³ STEL: 400 ppm STEL: 984 mg/m ³	TWA: 400 ppm TWA: 985 mg/m ³ STEL: 500 ppm STEL: 1230 mg/m ³	TWA: 200 ppm STEL: 400 ppm
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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 Showers
Eyewash stations
Ventilation systems.

Personal Protective Equipment

- Hand Protection** Rubber/latex/neoprene or other suitable chemical resistant gloves
- Eye/Face Protection** Safety glasses with side-shields.
- Skin and body protection** Skin and body protection.
- 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.

9. Physical and chemical properties

Physical state Liquid
Appearance Clear liquid
Odor Low
Color colorless

Property	Values	Remarks • Methods
pH	3.7	
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	1.035 g/cc	
Viscosity, kinematic	no data available	
Water solubility	completely soluble	
Partition coefficient: n-octanol/water	no data available	
Explosive properties	Not Applicable	

Other information

- Volatile organic compounds (VOC) content** < 1%
- Melting/freezing point**

10. Stability and reactivity

Stability/Reactivity Stable under recommended storage conditions.

Incompatible products None known based on information supplied.

Conditions to Avoid Direct sources of heat.

Hazardous Decomposition Products Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke.

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Hazardous Polymerization Hazardous polymerization does not occur.**11. Toxicological information****Acute toxicity****Product Information** The product itself has not been tested.**Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium hydroxide		1350 mg/kg (Rabbit)	
ISOPROPYL ALCOHOL	1870 mg/kg (Rat)	4059 mg/kg (Rabbit)	72600 mg/m ³ (Rat) 4 h

Chronic toxicity**Chronic toxicity** No information available**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA	Mexico
ISOPROPYL ALCOHOL		Group 1 Group 3		X	
COPPER(II) NITRATE		Group 2A		X	

IARC: (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

OSHA: (Occupational Safety & Health Administration)

X - Present

Target Organ Effects Eyes Respiratory system Skin**12. Ecological information****Ecotoxicity**

No information available. .

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			
ISOPROPYL ALCOHOL	EC50: 96 h Desmodesmus subspicatus 1000 mg/L EC50: 72 h Desmodesmus subspicatus 1000 mg/L	LC50: 96 h Pimephales promelas 9640 mg/L flow-through LC50: 96 h Pimephales promelas 11130 mg/L static LC50: 96 h Lepomis macrochirus 1400000 µg/L	EC50: 48 h Daphnia magna 13299 mg/L		

Persistence and degradability No information available.**Bioaccumulation** .**Mobility** No information available.

Chemical Name	log Pow
ISOPROPYL ALCOHOL	0.05

13. Disposal considerations

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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

<u>DOT</u>	Not regulated
<u>MEX</u>	Not regulated

15. Regulatory information

International Inventories

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

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	No
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):

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Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium hydroxide	1000 lb			X
Phosphoric acid	5000 lb			X
COPPER(II) NITRATE	100 lb	X		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
Phosphoric acid	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
COPPER(II) NITRATE	100 lb		RQ 100 lb final RQ RQ 45.4 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		
Phosphoric acid	X	X	X		
ISOPROPYL ALCOHOL	X	X	X		
magnesium nitrate	X	X	X	X	
COPPER(II) NITRATE	X	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

D2A Very toxic materials



16. Other information

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

Prepared By Chemspec Regulatory Affairs/Product Safety

Revision Date 10-Nov-2014

Revision Note No information available.

Legend:

NIOSH IDLH: Immediately Dangerous to Life or Health

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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