Material Safety Data Sheet: SPR-50

Supercedes Date 10/12/2010 **Issuing Date** 09/12/2013

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name SPR-50
Recommended use Cleaning agent
Information on Manufacturer
CERTIFIED LABS, DIV. OF NCH CORP.
BOX 152170
IRVING, TEXAS 75015

Product Code 0016
Chemical nature mixture
Emergency Telephone Number
CHEMTREC® 800-424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview
DANGER
Corrosive
Causes skin and eye burns
May cause delayed lung injury and burns
Harmful or fatal if swallowed

Color Colorless - Light yellow **Physical State** Liquid **Odor** Odorless

Potential Health Effects

Principle Route of Exposure	Skin contact, Eye contact, Inhalation.
Primary Routes of Entry	None known
Acute Effects	
Eyes	Corrosive to the eyes and may cause severe damage including blindness.
Skin	Causes skin burns.
Inhalation	Harmful by inhalation. Causes burns.
Ingestion	If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach. May be fatal if swallowed.
Chronic Toxicity	Inhaled corrosive substances can lead to a toxic edema of the lungs.
Target Organ Effects	Respiratory system, Eyes, Skin.
Aggravated Medical Conditions	Skin disorders, Respiratory disorders.
Potential Environmental Effects	See Section 12 for additional Ecological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No
Sodium metasilicate pentahydrate	10213-79-3
Potassium hydroxide	1310-58-3
Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, mono-C8-10-alkyl ethers, phosphates	68130-47-2

4. FIRST AID MEASURES

General advice	Do not get in eyes, on skin or on clothing. Do not breathe mist.
Eye Contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately.
Skin Contact	Remove immediately all contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately.
Inhalation	Move to fresh air. In case of shortness of breath, give oxygen. If breathing has stopped, apply artificial respiration. Get medical attention immediately.
Ingestion	Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.
Notes to physician	The product causes burns of eyes, skin and mucous membranes. Control of circulatory system, shock therapy if needed.

5. FIRE-FIGHTING MEASURES

Flash Point Does not flash **Method** Not applicable
Autoignition Temperature No information available.
Flammability Limits in Air % Hydrogen, by reaction with metals. **Upper** 75 **Lower** 4
Suitable Extinguishing Media
Water spray. Foam. Carbon dioxide (CO_2). Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards arising from the chemical
Contact with metals liberates flammable hydrogen gas. Material can create slippery conditions.
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.

NFPA	**Health** 3	**Flammability** 1	**Instability** 1
HMIS	**Health** 3	**Flammability** 1	**Instability** 1

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Use personal protective equipment. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.
Environmental Precautions Do not flush into surface water or sanitary sewer system.
Methods for Containment 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)
Methods for Cleaning Up Pick up and transfer to properly labeled containers
Neutralizing Agent Acetic acid, diluted.

7. HANDLING AND STORAGE

Handling Do not get in eyes, on skin or on clothing. Do not breathe mist.
Storage Keep containers tightly closed in a cool, well-ventilated place. Store in original container. Metal containers must be lined. Keep containers tightly closed in a dry, cool and well-ventilated place. Freezing will affect the physical condition but will not damage the material. Thaw and mix before using.
Storage Temperature **Minimum** 35 °F / 2 °C **Maximum** 120 °F / 49 °C
Storage Conditions **Indoor** X **Outdoor** **Heated** **Refrigerated**

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
Sodium metasilicate pentahydrate	No data available	No data available	No data available
Potassium hydroxide	Ceiling: 2 mg/m^3	No data available	Ceiling: 2 mg/m^3
Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, mono-C8-10-alkyl ethers, phosphates	No data available	No data available	No data available

Engineering Measures Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.
Personal Protective Equipment
- **Eye/Face Protection** Tightly fitting safety goggles. Face-shield.
- **Skin Protection** Wear suitable protective clothing, Impervious gloves.
- **Respiratory Protection** In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

General Hygiene Considerations Wear protective gloves/clothing. Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid	**Viscosity**	Non viscous
Color	Colorless - Light yellow	**Odor**	Odorless
Appearance	Transparent	**pH**	13.2
Specific Gravity	1.1	**Evaporation Rate**	0.5 (Butyl acetate=1)
Percent Volatile (Volume)	87.4	**VOC Content (%)**	0
VOC Content (g/L)	0	**Vapor Pressure**	14.8 mmHg @ 70°F
Vapor Density	0.6 (Air = 1.0)	**Solubility**	Completely soluble
Boiling Point/Range	212 °F / 100 °C		

10. STABILITY AND REACTIVITY

Chemical Stability Stable. Hazardous polymerization does not occur.
Conditions to Avoid None known
Incompatible Products Strong oxidizing agents, Strong acids, Metals, Aldehydes, Ammonium salts, Leather, Halogenated compounds.
Hazardous Decomposition Products Carbon oxides, Nitrogen oxides (NOx), Sodium oxides, Sulfur oxides, Oxides of phosphorus, Hydrogen, by reaction with metals.
Possibility of Hazardous Reactions None under normal processing

11. TOXICOLOGICAL INFORMATION

Product Information No information available.

Component Information

Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Sodium metasilicate pentahydrate	no data available	no data available	no data available	no data available	no data available
Potassium hydroxide	= 214 mg/kg (Rat)	no data available	no data available	no data available	no data available
Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, mono-C8-10-alkyl ethers, phosphates	no data available	no data available	no data available	no data available	no data available

Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Sodium metasilicate pentahydrate	no data available	no data available	no data available	no data available	no data available
Potassium hydroxide	no data available	no data available	no data available	no data available	eyes, respiratory system, skin
Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, mono-C8-10-alkyl ethers, phosphates	no data available	no data available	no data available	no data available	no data available

Carcinogenicity There are no known carcinogenic chemicals in this product.

Component	ACGIH	IARC	NTP	OSHA	Other
Sodium metasilicate pentahydrate	not applicable	not applicable	not applicable	not applicable	not applicable
Potassium hydroxide	not applicable	not applicable	not applicable	not applicable	not applicable
Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, mono-C8-10-alkyl ethers, phosphates	not applicable	not applicable	not applicable	not applicable	not applicable

12. ECOLOGICAL INFORMATION

Product Information No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Sodium metasilicate pentahydrate	no data available	no data available	no data available	no data available	N/A
Potassium hydroxide	no data available	LC50 = 80 mg/L Gambusia affinis 96 h	no data available	no data available	0.65 0.83
Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, mono-C8-10-alkyl ethers, phosphates	no data available	no data available	no data available	no data available	N/A

Persistence and Degradability No information available.
Bioaccumulation No information available.
Mobility No information available.

13. DISPOSAL CONSIDERATIONS

Product Disposal Dispose of in accordance with local regulations.
Container Disposal Empty containers should be taken for local recycling, recovery, or waste disposal.

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name Caustic alkali liquids, n.o.s.,(Potassium Hydroxide, Sodium Metasilicate)
Hazard Class 8
UN-No UN1719
Packing Group III
Reportable Quantity (RQ) Potassium hydroxide, RQ kg= 5034.60
Description UN1719, Caustic alkali liquids, n.o.s., (Potassium Hydroxide, Sodium Metasilicate), 8, PG III

TDG

Proper shipping name	Caustic alkali liquid, n.o.s.
Hazard Class	8
UN-No	UN1719
Packing Group	III
Description	Caustic Alkali Liquid, n.o.s., (Potassium Hydroxide,Sodium Metasilicate),8,UN1719,PG III

ICAO

UN-No	UN1719
Proper Shipping Name	Caustic alkali liquid, n.o.s., (Potassium Hydroxide, Sodium Metasilicate)
Hazard Class	8
Packing Group	III
Shipping Description	UN1719, Caustic alkali liquid, n.o.s.,(Potassium Hydroxide, Sodium Metasilicate),8,PG III

IATA

UN-No	UN1719
Proper Shipping Name	Caustic alkali liquid, n.o.s. (Potassium Hydroxide, Sodium Metasilicate)
Hazard Class	8
Packing Group	III
ERG Code	8L
Shipping Description	UN1719,Caustic alkali liquid, n.o.s.(Potassium Hydroxide, Sodium Metasilicate),8,PG III

IMDG/IMO

Proper Shipping Name	Caustic alkali liquid, n.o.s. (Potassium Hydroxide, Sodium Metasilicate)
Hazard Class	8
UN-No	UN1719
Packing Group	III
EmS No.	F-A, S-B
Shipping Description	UN1719, Caustic alkali liquid, n.o.s.,(Potassium Hydroxide, Sodium Metasilicate),8,PG III

15. REGULATORY INFORMATION

Inventories

TSCA	Complies
DSL	Complies

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 and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categorization

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

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Sodium metasilicate pentahydrate	Not applicable	Not applicable
Potassium hydroxide	1000 lb	Not applicable
Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, mono-C8-10-alkyl ethers, phosphates	Not applicable	Not applicable

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 D1B Toxic materials

16. OTHER INFORMATION

Prepared By	Sarah Williamson
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Reason for Revision	No information available.
Glossary	No information available.
List of References.	No information available.

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