


SAFETY DATA SHEET

Section 1 - Identification

Product Identifier SURGE Heavy Duty Liquid Drain Opener
 Other means of identification 1760
 Recommended use Drain Opener.
 Recommended restrictions For commercial and industrial use only.
 Manufacturer / Importer / Supplier / Distributor Information
 Company Name National Chemical Laboratories of PA, Inc.
 Address 401 N. 10th Street - Philadelphia, PA 19123
 Telephone 1 (215) 922-1200
 Supplier Email info@nclonline.com
 Contact CHEM-TEL
 Emergency Phone 1 (800) 255-3924

Section 2 - Hazard(s) Identification

SDS Hazards and Warnings are based on the undiluted product. Refer to diluted SDS for Ready-To-Use Hazards and Warnings.

		Category	Target Organ
Physical Hazards	Not Classified		
Health Hazards	Serious eye damage/eye irritation	1	
	Skin corrosion/irritation	1	
OSHA defined hazards	Not Classified.		
Label Elements			
Hazard Symbol			
Signal Word	Danger		
Hazard statement	Causes severe skin burns and eye damage.		
Precautionary statement			
Prevention	Do not breathe the mist or vapor. Wash thoroughly after handling. Wear protective gloves/clothing and eye/face protection.		
Response	If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center/doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
Storage	Store locked up.		
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.		
Hazard(s) not otherwise classified (HNOC)	Not classified.		

Section 3 - Composition/Information on ingredients

Mixture			
Hazardous Components	Ingredient Name	CAS #	%
	Sodium Hydroxide	1310-73-2	10 - 20
	Potassium Hydroxide	1310-58-3	1 - 5
Composition Comments	All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.		

Section 4 - First-aid Measures

Inhalation If respiratory irritation or distress occurs, remove victim to fresh air. If breathing is difficult, give oxygen. If breathing stops, apply artificial respiration. CONSULT A PHYSICIAN.

Skin contact Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if irritation persists. Wash contaminated clothing before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Check and

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Ingestion	remove contact lenses. Continue to rinse for at least 10 minutes. Rinse mouth thoroughly with water. DO NOT induce vomiting. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head lower than the hips to help prevent aspiration. Call a physician or poison control center immediately.
Most Important symptoms /effects, acute and delayed	Causes skin and eye burns.
Indication of immediate medical attention and special treatment	Treat symptomatically.
General Information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Section 5 - Fire-fighting measures

Suitable extinguishing media	This product is non-combustible. Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media	Not available.
Specific hazards arising from the chemical	None known.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment /instructions	Move containers from fire area if you can do it without risk. Use water spray to keep fire-exposed containers cool.
General fire hazards	
Specific Methods	

Section 6 - Accidental release measures

Personal precautions, protective equipment and emergency procedures.	Isolate area. Keep unnecessary personnel away. Use personal protection as recommended in Section 8 of the SDS.
Methods and materials for containment and cleaning up	SMALL SPILLAGE: Absorb spillage with suitable absorbent material. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. After removal flush contaminated area thoroughly with water. LARGE SPILLS: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. After removal flush contaminated area thoroughly with water.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.

Section 7 - Handling and storage

Precautions for safe handling	Do not get in eyes, on skin, or on clothing. Do not breathe mist or vapor. Do not taste or swallow. Use with adequate ventilation. Wash thoroughly after handling. Use Personal Protective Equipment recommended in section 8 of the SDS.
Conditions for safe storage, including any incompatibilities	Store away from incompatible materials. Keep container closed.

Section 8 - Exposure control/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Sodium Hydroxide (CAS 1310-73-2)	PEL	2 mg/m ³	

US. ACGIH Threshold Limit Values

Component	Type	Value	Form
Potassium Hydroxide (CAS 1310-58-3)	Ceiling	2 mg/m ³	
Sodium Hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m ³	

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
Potassium Hydroxide (CAS 1310-58-3)	REL	2 mg/m ³	
Sodium Hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m ³	

Biological limit values	No biological exposure limits noted for the ingredient(s).
Exposure guidelines	Use personal protective equipment as required. Keep working clothes separately.
Appropriate engineering controls	Provide adequate ventilation and minimize the risk of inhalation of vapors and mists. Provide easy access to water supply and eye wash facilities.
Individual protection measures, such as personal protective equipment	
Eye/face protection	Wear approved chemical safety goggles.
Skin protection	
Hand protection	Wear chemical-resistant, impervious gloves. Suitable gloves can be recommended by the glove supplier.

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Other	Wear appropriate chemical resistant clothing.
Respiratory protection	Use a respirator when local exhaust or ventilation is not adequate to keep exposures below the OEL. In a confined space a supplied respirator may be required.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Section 9 - Physical and chemical properties

Appearance	Clear.
Physical state	Liquid.
Form	Liquid.
Color	Red.
Odor	None.
Odor threshold	Not available.
pH (Concentrate)	14
Melting point/freezing point	Not available.
Initial boiling point and boiling range	212 °F (100 °C)
Flash point	> 212.0 °F (> 100.0 °C)
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Similar to water.
Vapor density	Similar to water.
Relative density	1.23 ± 0.01
Relative density temperature	75 °F (23.89 °C)
Solubilities	100 % Soluble.
Partition Coefficient n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	< 10 cP
Viscosity Temperature	75 °F (23.89 °C)

Section 10 - Stability and reactivity

Reactivity	The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	Stable at normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to Avoid	Contact with incompatible materials.
Incompatible materials	Acids, flammable liquids, organic halogen compounds, nitro compounds, and amphoteric metals, such as aluminum, magnesium and zinc.
Hazardous Decomposition Products	None

Section 11 - Toxicological information

Information on likely routes of exposure

Ingestion	May be harmful if swallowed.
Inhalation	May cause burns in mucous membranes, throat, esophagus and stomach.
Skin contact	Causes skin burns.
Eye contact	Causes serious eye damage.

Symptoms related to the physical, chemical and toxicological characteristics
Causes skin and eye burns.

Information on toxicological effects.

Acute toxicity May be harmful if swallowed.

Components	Level	Type	Code	Species	Results
Potassium Hydroxide (CAS 1310-58-3)	Acute	Oral	LD50	Rat	273 mg/kg

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Sodium Hydroxide (CAS 1310-73-2)

Acute

Oral

LD50

Rabbit

500 mg/kg

Skin corrosion/irritation	Causes skin burns.
Serious eye damage/ eye irritation	Causes serious eye damage.
Respiratory sensitization	Not classified.
Skin sensitization	Not available.
Germ cell mutagenicity	Not classified.
Carcinogenicity	Not classified.
Reproductive toxicity	Not classified.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not classified.
Chronic effects	
Further information	

Section 12 - Ecological Information

Ecotoxicity	The product contains a substance which is toxic to aquatic organisms.
Persistence and degradability	The product is expected to be biodegradable.
Bioaccumulative potential	Not known.
Mobility in soil	Not available.
Mobility in general	The product is water soluble and may spread in water systems.
Other adverse effects	None known.

Section 13 - Disposal considerations

Disposal instructions	Dispose in accordance with applicable federal, state, and local regulations.
Local disposal regulations	Dispose of in accordance with local regulations.
Hazardous waste code	Waste codes should be assigned by the user based on the application for which the product was used.
Waste from residues / unused products	Dispose in accordance with all applicable regulations.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied.

Section 14 - Transport information

DOT

UN number	UN1824
UN proper shipping name	Sodium hydroxide solution
Transport hazard class(es)	8
Subsidiary class(es)	
Packing group	II
Special precautions for users	Read safety instructions, SDS and emergency procedures before handling.
Labels required	8
Special provisions	B2, IB2, N34, T7, TP2
Packaging exemption	154
Packaging non bulk	202
Packaging bulk	242

IATA

UN number	UN1824
UN proper shipping name	Sodium hydroxide solution
Transport hazard class(es)	8
Subsidiary class(es)	
Packaging group	II
Environmental hazards	No.
Labels required	
ERG Code	8L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number	UN1824
UN proper shipping name	SODIUM HYDROXIDE SOLUTION

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Transport hazard class(es)	8
Subsidiary class(es)	
Packaging group	II
Environmental hazards	
Marine pollutant	No.
Labels required	
EmS	F-A, S-B
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transportation in bulk according to Annex II of MARPOL 73/78 and IBC Code	Not established.
General Information	

Section 15 - Regulatory Information

US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.	
TSCA Section 12(b) Export Notification (40 CFR707, Subpt. D)	Not regulated.	
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	Not on regulatory list.	
CERCLA Hazardous Substance List (40 CFR 302.4)		
Components		Result
Sodium Hydroxide (CAS 1310-73-2)		LISTED
Potassium Hydroxide (CAS 1310-58-3)		LISTED
Superfund Amendments and Reauthorization Act of 1986 (SARA)		
Hazard Categories	Immediate Hazard	Yes
	Delayed Hazard	No
	Fire Hazard	No
	Pressure Hazard	No
	Reactivity Hazard	No
SARA 302 Extremely hazardous substance		No
SARA 311/312 Hazardous chemical		Yes
SARA 313 (TRI reporting)		Not regulated.
Other federal regulations		
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HSPs) List		Not regulated.
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)		Not regulated.
Safe Drinking Water Act (SDWA)	Not regulated.	
Food and Drug Administration (FDA)	Not regulated.	
US state regulations	California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.	
US.Massachusetts RTK - Substance List	Components	
	Potassium Hydroxide (CAS 1310-58-3)	
	Sodium Hydroxide (CAS 1310-73-2)	
US.New Jersey Worker and Community Right-to-Know Act	Components	
	Sodium Hydroxide (CAS 1310-73-2)	
US.Pennsylvania RTK - Hazardous Substances	Components	
	Potassium Hydroxide (CAS 1310-58-3)	
	Sodium Hydroxide (CAS 1310-73-2)	
US.Rhode Island RTK	Components	
	Potassium Hydroxide (CAS 1310-58-3)	
	Sodium Hydroxide (CAS 1310-73-2)	
US - California Proposition 65 - Carcinogens Reproductive Toxicity (CRT): Listed substance		Not listed.
International Inventories		
Country(s) or region	Inventory Name	On Inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances	Yes

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Unites States
Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

*A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Section 16 - Other information, including date of preparation or last version

Issue date 12/27/2012

Revision date

Version # 01

Further information Not available.

List of abbreviations

References

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