



# SAFETY DATA SHEET

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Revision Number 0

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### GHS product identifier

Product Name L-21

### Other means of identification

Product Code(s) 1221004

Synonyms N/A

### Recommended use of the chemical and restrictions on use

Recommended Use Institutional laundry detergent

Uses advised against No Information Available

### Supplier's details

#### **Supplier Address**

Birsch Industries  
476 Viking Drive  
Virginia Beach, VA. 23452  
TEL: 757-622-0355

### Emergency telephone number

Emergency Telephone Number CHEM-TEL, INC.  
24 Hour Emergency Contact 1-800-255-3924

## 2. HAZARDS IDENTIFICATION

### Classification

ACUTE TOXICITY: ORAL – Category 4  
SKIN COROSION/IRRITATION – Category 1A  
SERIOUS EYE DAMAGE/EYE IRRITATION – Category 1  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) – Category 3

### GHS Label elements, including precautionary statements

#### Emergency Overview

Signal Word DANGER

**Hazard Statements**

- Harmful if swallowed
- Causes severe skin burns and eye damage
- May cause respiratory irritation

**Appearance** Clear**Physical State** Solid**Odor** N/A**Symbol:****Precautionary Statements****Prevention**

Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dust/fumes/gas/mist/vapors/spray. Wear protective gloves/protective clothing/eye protection/face protection. Use only outdoors or in a well ventilated area.

**General Advice**

Immediately call a POISON CENTER or doctor/physician.

**Eyes**

IF IN EYES, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

**Skin**

IF ON SKIN, take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.

**Inhalation**

IF INHALED, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

**Ingestion**

IF SWALLOWED, call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting.

**Storage**

Store locked up. Store in a well-ventilated place. Keep container tightly closed.

**Disposal**

Dispose of contents/container to an approved waste disposal plant.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Synonyms**

Chemical Name	CAS-No	Weight %	Notes
Sodium carbonate	497-19-8	10 – 30	*
Sodium metasilicate	6834-92-0	10 – 30	*
Sodium hydroxide	1310-73-2	10 – 30	*
Naphtha (petroleum), hydrotreated heavy	64742-48-9	1 – 5	*

\* The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

**Description of necessary first-aid measures**

<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use. Immediate medical attention is required.
<b>Inhalation</b>	Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.
<b>Ingestion</b>	Drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Immediate medical attention is required.

**Indication of immediate medical attention and special treatment needed, if necessary**

<b>Notes to Physician</b>	Treat symptomatically
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**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Specific Hazards Arising from the Chemical**

No information available

**Hazardous Thermal Decomposition Products**

No information available

**Specific Fire-Fighting Methods**

No information available

**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, protective equipment and emergency procedures**

<b>Personal Precautions</b>	Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Stop leak if you can do it without risk.
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**Environmental Precautions**

<b>Environmental Precautions</b>	Dispose of contents/container to an approved waste disposal plant.
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**Methods and materials for containment and cleaning up**

<b>Methods for Cleaning Up</b>	Stop leak if you can do it without risk. If liquid has been spilt in large quantities clean up promptly by scoop or vacuum. Dilute with water and neutralize as required. Wash away small spills with plenty of water.
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**7. HANDLING AND STORAGE****Precautions for safe handling**

<b>Handling</b>	Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapors or mists. Use only in area provided with appropriate exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Do not eat, drink or smoke when using with product. Do not take internally. Wash thoroughly after handling.
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**Conditions for safe storage, including any incompatibilities**

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. Store at room temperature. Keep container closed when not in use.

**Incompatible Products** Acids. Aluminum. Soft metals.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Control parameters**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium hydroxide 1310-73-2	Ceiling: 2mg/m <sup>3</sup>	TWA: 2mg/m <sup>3</sup> (vacated) Ceiling: 2mg/m <sup>3</sup>	IDLH: 10mg/m <sup>3</sup> Ceiling: 2mg/m <sup>3</sup>

**Appropriate engineering controls**

Showers, Eyewash Stations, Ventilation Systems

**Individual protection measures, such as personal protective equipment**

**Eye & Face Protection** Chemical resistant goggles must be worn. Face-shield.

**Hand & Skin Protection** Rubber gloves. Apron. Rubber boots. Neoprene gloves.

**Respiratory Protection** When dust/mist present, use a particulate filter.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practices.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

<b>Physical State</b>	Solid	<b>Appearance</b>	Clear
<b>Odor</b>	No information available	<b>Odor Threshold</b>	No information available

<b>Property</b>	<b>Values</b>
<b>pH</b>	No data available
<b>Melting Point/Range</b>	No data available
<b>Boiling Point/Boiling Range</b>	> 100°C
<b>Flash Point</b>	N/A
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Flammability Limits in Air</b>	
<b>upper flammability limit</b>	No data available
<b>lower flammability limit</b>	No data available
<b>Vapor Pressure</b>	No data available
<b>Vapor Density</b>	No data available
<b>Relative Density</b>	No data available
<b>Specific Gravity</b>	No data available
<b>Water Solubility</b>	100
<b>Solubility in other solvents</b>	No data available
<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Autoignition Temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available
<b>Viscosity</b>	No data available
<b>Flammable Properties</b>	No data available
<b>Explosive Properties</b>	No data available
<b>Oxidizing Properties</b>	No data available

**10. STABILITY AND REACTIVITY**

**Stability**

The product is stable

**Possibility of hazardous reactions**

Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid**

Spills or careless handling. Incompatible products.

**Incompatible materials**

Acids. Aluminum. Soft metals.

**Hazardous decomposition products**

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11. TOXICOLOGICAL INFORMATION

**Route of Exposure**

Skin contact, Eye contact, Inhalation, Ingestion

**Symptoms**

<b>Eye Contact</b>	Causes serious eye irritation
<b>Skin Contact</b>	Causes severe skin burns
<b>Inhalation</b>	May cause irritation of respiratory tract
<b>Ingestion</b>	Harmful if swallowed

**Toxicity Data**

Product	LD50 Oral	LD50 Dermal	LD50 Inhalation
Sodium chloride	= 3g/kg (Rat)	> 10 g/kg (Rabbit)	> 42 g/m <sup>3</sup> (Rat) 1hr
Sodium carbonate	= 4090 mg/kg (Rat)		
Sodium metasilicate	= 600 mg/kg (Rat)		
Sodium hydroxide	-	= 1350 mg/kg (Rabbit)	-
Naphtha (petroleum), hydrotreated heavy	> 5000 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	-

**Chronic Toxicity**

<b>Carcinogenicity</b>	No known significant effects or critical hazards.
<b>Mutagenicity</b>	No known significant effects or critical hazards.
<b>Teratogenicity</b>	No known significant effects or critical hazards.
<b>Developmental Effects</b>	No known significant effects or critical hazards.
<b>Fertility Effects</b>	No known significant effects or critical hazards.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
Sodium chloride 7647-14-5		LC50 96h: 5560-6080 mg/L flow-through (Lepomis macrochirus) LC50 96h: = 12946 mg/L static (Lepomis macrochirus) LC50 96h: 6020-7070 mg/L static (Pimephales promelas) LC50 96h: = 7050 mg/L semi-static (Pimephales promelas) LC50 96h: 6420-6700 mg/L static (Pimephales promelas) LC50 96h: 4747-7824 mg/L flow-through (Oncorhynchus mykiss)	EC50 48h: 1000 mg/L (Daphnia Magna) EC50 48h: 340.7-469.2 mg/L static (Daphnia Magna)
Sodium carbonate 497-19-8	EC50 120h: =242 mg/L (Nitzschia)	LC50 96h: = 300 mg/L static (Lepomis macrochirus) LC50 96h: 310-1220 mg/L static (Pimephales promelas)	EC50 48h: = 265 mg/L (Daphnia Magna)
Sodium metasilicate 6834-92-0		LC50 96h: = 210 mg/L semi-static (Brachydanio rerio) LC50 96h: = 210 mg/L (Brachydanio rerio)	EC50 96h: = 216 mg/L (Daphnia Magna)

### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Methods**

Dispose of in accordance with federal, state and local regulations. Do not reuse empty containers.

### 14. TRANSPORT INFORMATION

**DOT****UN Number**

UN1759

**Proper Shipping Name**

Corrosive solids, n.o.s.

**Hazard Class**

8

**Packing Group**

III

**Reportable Quantity**

Sodium hydroxide: RQ kg=2270.00

**Description**

UN1759, Corrosive solids, n.o.s. (Sodium hydroxide), 8, III, RQ

**Emergency Response Guide Number**

154

### 15. REGULATORY INFORMATION

**International Inventories****TSCA**

Complies

**DSL**

Complies

**U.S. Federal Regulations**

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

**Clean Water Act**

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

**Sodium hydroxide (1310-73-2)**

**CERCLA**

This material, as supplied, contains one or more substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material:

**Sodium hydroxide (1310-73-2)**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals

**US State Right-To-Know Regulations**

The following substances are listed on the corresponding states Right-To-Know list:

**Sodium hydroxide (1310-73-2) – New Jersey, Massachusetts, Pennsylvania, Rhode Island**

**16. OTHER INFORMATION**

<b><u>NFPA</u></b>	Health 3	Flammability 0	Instability 1
<b><u>HMIS</u></b>	Health 3	Flammability 0	Physical Hazards 1

<b>Prepared By</b>	Birsch Industries 476 Viking Drive Virginia Beach, VA. 23452 TEL: 757-622-0355
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<b>Revision Note</b>	N/A

**General Disclaimer**

The information provided on this SDS 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 Safety Data Sheet**