

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Material name : Z-12 Floor Cleaner  
 Material number : U1012  
**Manufacturer or supplier's details**  
 Company : Lyn Distributing Inc.  
 Address : 965 North Redwood Road  
 North Salt Lake, Utah 84054  
 Telephone : 801-295-5022

Emergency telephone numbers	
<b>For SDS Information</b>	: Compliance Services 1-801-201-1135
<b>For a Medical Emergency</b>	: 801-201-1135- All Calls Recorded
<b>For a Transportation Emergency</b>	: 801-201-1135 - All Calls Recorded. 801-201-1135

**SECTION 2. HAZARDS IDENTIFICATION**

**Emergency Overview**

Appearance	powder
Color	orange
Odor	mild citrus

**GHS Classification**

Acute toxicity (Oral) : Category 4  
 Skin corrosion : Category 1A  
 Serious eye damage : Category 1  
 Specific target organ toxicity - single exposure : Category 3 (Respiratory system)

**GHS Label element**

Hazard pictograms : 

Signal word : Danger

Hazard statements : H302 Harmful if swallowed.  
 H314 Causes severe skin burns and eye damage.  
 H335 May cause respiratory irritation.

Precautionary statements : **Prevention:**  
 P260 Do not breath the dust or mist.  
 P264 Wash skin thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P271 Use only outdoors or in a well-ventilated area.

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P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel sick. Rinse mouth.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 + P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Immediately call a POISON CENTER or doctor/ physician.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

P363 Wash contaminated clothing before reuse.

**Storage:**

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

**Disposal:**

P501 Dispose of contents/container in accordance with local regulation.

### Potential Health Effects

#### Carcinogenicity:

**IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**ACGIH**

Confirmed animal carcinogen with unknown relevance to humans

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

#### Hazardous components

Chemical Name	CAS-No.	Concentration [%]
sodium metasilicate	6834-92-0	> 60 - < 90
sodium carbonate	497-19-8	> 20 - < 30
D-limonene- orange distillate; citrus terpene; cyclohexene,	94266-47-4	> 1 - < 5

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### SECTION 4. FIRST AID MEASURES

General advice	: Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled	: If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	: Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty. If on skin, rinse well with water. If on clothes, remove clothes.
In case of eye contact	: Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	: Keep respiratory tract clear. Do not induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Dry chemical
Unsuitable extinguishing media	: High volume water jet
Specific hazards during firefighting	: Do not allow run off from fire fighting to enter drains or water ways.
Hazardous combustion products	: Carbon dioxide (CO <sub>2</sub> ) Carbon monoxide Smoke
Specific extinguishing methods	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Further information	: Standard procedure for chemical fires.  Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for firefighters	Wear self-contained breathing apparatus for firefighting if necessary

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Use personal protective equipment. Avoid dust formation. Avoid breathing dust.
Environmental precautions	: Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up or vacuum up spillage and collect in suitable container for disposal. Neutralise with acid. Keep in suitable, closed containers for disposal.

### SECTION 7. HANDLING AND STORAGE

Advice on safe handling	: Avoid formation of fine dust particles. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations.
Conditions for safe storage	: Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
Materials to avoid	: Keep away from oxidizing agents and strongly acid or alkaline materials.
Storage temperature	: 5 - 40 °C

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
D-limonene	94266-47-4	TWA	30 ppm	ACGIH NIOSH REL
		TWA	10 ppm	
		TWA	24 mg/m <sup>3</sup>	OSHA Z-1
		TWA	50 ppm	
		TWA	240 mg/m <sup>3</sup>	OSHA P0
		TWA	25 ppm	
			120 mg/m <sup>3</sup>	

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### Personal protective equipment

Respiratory protection	: In the case of dust or aerosol formation use respirator with an approved filter. Dust safety masks are recommended when the dust concentration is more than 10 mg/m <sup>3</sup> .
Hand protection Remarks	: Skin should be washed after contact. For prolonged or repeated contact use protective gloves. The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Eye protection	: Eye wash bottle with pure water Tightly fitting safety goggles Wear face shield and protective suit for abnormal processing problems.
Skin and body protection	: Dust impervious protective suit Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures	: When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of work day.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: powder
Color	: Orange
Odor	: mild citrus
Odor Threshold	: no data available
pH	: 12.2 - 12.6, 1% (as aqueous solution)
Melting point/freezing point	: not applicable
Boiling point	: not applicable
Flash point	: not applicable
Evaporation rate	: not applicable
Upper explosion limit Lower explosion limit	: not applicable
Vapor pressure	: not applicable
Relative vapor density	: not applicable
Density	: not applicable
Solubility Water solubility	: soluble in cold water, soluble in hot water
Partition coefficient: n-octanol/water	: no data available
Auto-ignition temperature	: not determined
Thermal decomposition	: no data available
Viscosity	: not applicable

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### SECTION 10. STABILITY AND REACTIVITY

Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No decomposition if stored and applied as directed. Dust may form explosive mixture in air.
Conditions to avoid	: no data available
Incompatible materials	: Acids, Metals
Hazardous decomposition products	: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). Nitrogen oxides (NOx)

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

##### Product:

Acute oral toxicity	: Acute toxicity estimate : 1,409 mg/kg Method: Calculation method
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#### Components:

##### sodium metasilicate:

Acute oral toxicity	: LD50 rat: 1,153 mg/kg
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##### sodium carbonate:

Acute oral toxicity	: LD50 Oral rat: 4,090 mg/kg
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Acute inhalation toxicity	: LC50 rat: 5,750 mg/l Exposure time: 2 h
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##### D-limonene :

Acute oral toxicity	: LD50 Oral rat:> 50 g/kg
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##### Product Z-12 Floor Cleaner

##### Skin corrosion/irritation

Remarks: Extremely corrosive and destructive to tissue.

##### Serious eye damage/eye irritation

Remarks: May cause irreversible eye damage.

##### Respiratory or skin sensitization

no data available

##### Germ cell mutagenicity

no data available

##### Carcinogenicity

no data available

##### Reproductive toxicity

no data available

##### Sodium metasilicate: Sodium carbonate: D-limonene :

STOT - single exposure no data available

STOT - repeated exposure no data available

Aspiration toxicity no data available

##### Further information

##### Product: Z-12 Floor Cleaner

Remarks: no data available

### SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity no data available

Persistence and degradability no data available

#### Bioaccumulative potential

##### Product: Z-12 Floor Cleaner

Partition coefficient: n-octanol/water no data available

Mobility in soil no data available

Other adverse effects no data available

##### Product: Z-12 Floor Cleaner

Regulation 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances. Remarks This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S.Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B). Additional ecological information no data available.

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### SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

Waste from residues : Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Dispose of in accordance with local regulations.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

### SECTION 14. TRANSPORT INFORMATION

#### International regulation

##### UNRTDG

Not regulated as a dangerous good

##### IATA-DGR

Not regulated as a dangerous good

##### IMDG-Code

Not regulated as a dangerous good

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable for product as supplied.

**National Regulations** 49 CFR Not regulated as a dangerous good

**Special precautions for user** not applicable

### SECTION 15. REGULATORY INFORMATION

#### EPCRA - Emergency Planning and Community Right-to-Know Act

##### CERCLA Reportable Quantity

Components CAS-No. Component RQ Calculated product RQ (lbs) 1000\*  
0

\*: Calculated RQ exceeds reasonably attainable upper limit. SARA 304 Extremely Hazardous Substances **Reportable Quantity**. This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : Acute Health Hazard. **SARA 302**: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. **SARA 313**: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. **California Prop 65** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**The components of this product are reported in the following inventories:**

**TSCA** On TSCA Inventory  
**DSL** This product contains one or several components that are not on the Canadian DSL nor NDSL.  
**AICS** Not in compliance with the inventory  
**NZIoC** Not in compliance with the inventory  
**PICCS** Not in compliance with the inventory  
**IECSC** Not in compliance with the inventory

**Inventory Acronym and Validity Area Legend:**

### SECTION 16. OTHER INFORMATION

#### Further information

##### HFPA:



##### HMIS III:

<b>HEALTH</b>	<b>3</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

OSHA GHS Label Information:

Hazard pictograms :



Signal word :

Danger:

Hazard statements :

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

Precautionary statements :

Prevention: Do not breathe dust or mist. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/ protective clothing/ eye protection/ face protection.  
Response: IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel sick. Rinse mouth. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. Wash contaminated clothing before reuse.  
Storage: Store in a well-ventilated place. Keep container tightly closed. Store locked up.  
Disposal: Dispose of contents/container in accordance with local regulation.

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