

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture

Product name : Mop & Strip

Product code : 3665

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : No Rinse Stripper

#### 1.3. Details of the supplier of the safety data sheet

Crestek Cleaning Center, Inc. 1161 Kapiolani Blvd. Honolulu, HI 96814 T 1-(808) 942-2500

#### 1.4. Emergency telephone number

Emergency number : CHEMTEL: 800-255-3924

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### **GHS US classification**

 Flam. Liq. 4
 H227

 Skin Corr. 1C
 H314

 Eye Dam. 1
 H318

 Skin Sens. 1
 H317

 STOT SE 3
 H335

Full text of H statements : see section 16

#### 2.2. Label elements

#### **GHS US labeling**

Signal word

Hazard pictograms





: Danger

Hazard statements : Combustible liquid.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Causes serious eye damage. May cause respiratory irritation.

Precautionary statements : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking heat, hot surfaces, open flames, sparks.

Do not breathe mist, vapors.

Keep cool.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing must not be allowed out of the workplace.

Wear eye protection, face protection, protective clothing, protective gloves, protective boots.

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

Wash with plenty of soap and water.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

 $\label{eq:interpolation} \text{IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present}$ 

and easy to do. Continue rinsing.

Immediately call a poison center or doctor/physician.

Call a POISON CENTER or doctor/physician if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention.

In case of fire: Use alcohol resistant foam, BC-powder, carbon dioxide (CO2), dry chemical,

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sand to extinguish.

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

Take off contaminated clothing and wash before reuse.

Store locked up

Dispose of contents/container in accordance with Local, State, and Federal regulations.

#### 2.3. Hazard not otherwise classified (HNOC)

No additional information available.

#### 2.4. Unknown acute toxicity (GHS US)

No data available

# **SECTION 3: Composition/Information on ingredients**

#### 3.1. Substances

Not applicable.

(NOTE: If component displays the \* (asterisk) symbol, the following statement applies.)

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret.

Full text of H-phrases: see section 16

#### 3.2. Mixture

Name	Product identifier	%	GHS US classification
2-butoxyethanol	(CAS-No.) 111-76-2	5 - 10	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319
2-aminoethanol	(CAS-No.) 141-43-5	5 - 10	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1B, H314
2-phenoxyethanol	(CAS-No.) 122-99-6	5 - 10	Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319
sodium xylenesulfonate	(CAS-No.) 1300-72-7	1 - 5	Skin Irrit. 2, H315 STOT SE 3, H335
(+)-limonene	(CAS-No.) 5989-27-5	0.1 - 1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

(NOTE: If component displays the \* (asterisk) symbol, the following statement applies.)

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret.

#### **SECTION 4: First aid measures**

4.1.	Description of first aid measures	;
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First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

First-aid measures after inhalation : 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. Immediately call a poison center or

doctor/physician.

First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Immediately call a poison center or doctor/physician.

First-aid measures after eye contact : 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.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : Causes severe skin burns and eye damage.

Symptoms/effects after inhalation : May cause respiratory irritation.

Symptoms/effects after skin contact : Causes burns/corrosion of the skin.

Symptoms/effects after eye contact : Causes serious eye damage.

Symptoms/effects after ingestion : Abdominal pain. Burns to the gastric/intestinal mucosa. Gastrointestinal complaints. Nausea.

Vomiting.

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#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available.

#### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam. BC powder. Carbon dioxide. Dry chemical powder. Sand/earth.

Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Combustible liquid.

Reactivity : Reacts with (strong) oxidizers and with (some) acids. Reacts with (some) halogen compounds.

Thermal decomposition generates: Corrosive vapors.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Other information : Although product has a flash point <200° F, it is an aqueous solution and does not sustain

combustion.

#### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking. Isolate from fire, if possible, without unnecessary risk. Use special care to avoid static

electric charges.

6.1.1. For non-emergency personnel

Protective equipment : Protective goggles.

Protective gloves.
Protective clothing.
Respiratory protection.
Protective boots.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

For containment : Contain released product, pump into suitable containers. Plug the leak, cut off the supply.

Dilute combustible/toxic gases/vapors with water spray.

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Store away from other materials. Wash down leftovers with plenty of water. Wash

clothing and equipment after handling.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Do not get in eyes, on skin, or on clothing. Do not breathe mist, vapors. Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking. Observe normal hygiene standards. Provide good ventilation in process area to prevent formation of vapor. Use only outdoors or in a well-ventilated area. Use personal

protective equipment as required.

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or

smoke when using this product. Wash contaminated clothing before reuse. Wash hands and forearms thoroughly after handling. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Provide local exhaust or general room ventilation. Take precautionary measures against static

discharge. Comply with applicable regulations.

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Incompatible products : Strong acids. Oxidizing agent.

Storage area : Store in a cool, dry well-ventilated area. Keep container tightly closed when not in use.

#### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

2-aminoethanol (141-43-5)		
ACGIH	ACGIH TWA (ppm)	3 ppm
ACGIH	ACGIH STEL (ppm)	3 ppm
OSHA	OSHA PEL (TWA) (mg/m³)	2 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	0.46 ppm

2-butoxyethanol (111-76-2)		
ACGIH	ACGIH TWA (ppm)	20 ppm
ACGIH	ACGIH STEL (ppm)	20 ppm
OSHA	OSHA PEL (TWA) (mg/m³)	97 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	20 ppm

#### 8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or face shield.
Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Wear appropriate mask. Where exposure through inhalation may occur from use, respiratory

protection equipment is recommended.

Other information : Do not eat, drink or smoke during use.

Appropriate engineering controls : Handle in accordance with good industrial hygiene and safety practice. Wash hands before

breaks and at the end of workday.

# SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Color : Clear blue
Odor : Lemon

Odor threshold : No data available pH : 12.5 - 13.5 Melting point : No data available Freezing point : No data available

Boiling point :  $> 212 \,^{\circ}F$ Flash point :  $> 140 \,^{\circ}F$ 

Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : No data available Explosion limits : No data available Vapor pressure : No data available Vapor density : No data available

Specific Gravity @ 77° F : 1.010 - 1.030
Solubility : Soluble in water
Partition Coefficient n-Octanol-Water : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Viscosity : No data available

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#### 9.2. Other information

VOC content : < 175 g/l CARB VOC

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Reacts with (strong) oxidizers and with (some) acids. Reacts with (some) halogen compounds. Thermal decomposition generates: Corrosive vapors.

# 10.2. Chemical stability

Stable under recommended conditions.

# 10.3. Possibility of hazardous reactions

Not established.

# 10.4. Conditions to avoid

Extremely high or low temperatures. Heat. Open flame. Sparks.

#### 10.5. Incompatible materials

Strong acids. Oxidizers. Halogenated organic solvents.

#### 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. Nitrogen oxides. Sulfur oxides. Thermal decomposition generates: Corrosive vapors.

#### **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

Acute toxicity : Not classified

(+)-limonene (5989-27-5)		
LD50 oral rat	4400 mg/kg body weight (Rat; OECD 423: Acute Oral Toxicity – Acute Toxic Class Method; Literature study; > 2000 mg/kg bodyweight; Rat; Read-across)	
LD50 dermal rabbit	> 5000 mg/kg body weight (Rabbit; Weight of evidence; Equivalent or similar to OECD 402)	
ATE US (oral)	4400 mg/kg body weight	
sodium xylenesulfonate (1300-72-7)		
LD50 oral rat	3346 mg/kg	
LD50 dermal rabbit	> 2000 mg/kg	
ATE US (oral)	3346 mg/kg body weight	
2-phenoxyethanol (122-99-6)		
LD50 oral rat	1260 mg/kg (Rat)	
LD50 dermal rat	14422 mg/kg (Rat)	
LD50 dermal rabbit	5500 mg/kg (Rabbit)	
ATE US (oral)	1260 mg/kg body weight	
ATE US (dermal)	5500 mg/kg body weight	
2-aminoethanol (141-43-5)		
LD50 oral rat	1720 mg/kg (Rat)	
LD50 dermal rabbit	1018 mg/kg (Rabbit)	
ATE US (oral)	1720 mg/kg body weight	
ATE US (dermal)	1018 mg/kg body weight	
ATE US (gases)	4500 ppmV/4h	
ATE US (vapors)	11 mg/l/4h	
ATE US (dust, mist)	1.5 mg/l/4h	
2-butoxyethanol (111-76-2)		
LD50 oral rat	530 mg/kg (Rat; Equivalent or similar to OECD 401; Literature study; 1746 mg/kg bodyweigh Rat; Experimental value)	
LD50 dermal rat	> 2000 mg/kg body weight (Rat; Experimental value; OECD 402: Acute Dermal Toxicity)	
LD50 dermal rabbit	435 mg/kg body weight (Rabbit; Experimental value; OECD 402: Acute Dermal Toxicity; 435 mg/kg bodyweight; Rabbit; Weight of evidence; Equivalent or similar to OECD 402)	
LC50 inhalation rat (mg/l)	2.17 mg/l/4h (Rat; Experimental value; 2.35 mg/l/4h; Rat; Experimental value)	
LC50 inhalation rat (ppm)	450-486,Rat; Weight of evidence	
ATE US (oral)	530 mg/kg body weight	
ATE US (dermal)	435 mg/kg body weight	
ATE US (gases)	700 ppmV/4h	

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2-butoxyethanol (111-76-2)	
ATE US (vapors)	2.17 mg/l/4h
ATE US (dust, mist)	2.17 mg/l/4h
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
	pH: 12.5 - 13.5
Serious eye damage/irritation	: Causes serious eye damage.
	pH: 12.5 - 13.5
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
	Based on available data, the classification criteria are not met.
Carcinogenicity	: Not classified
(+)-limonene (5989-27-5)	
IARC group	3 - Not classifiable
2-butoxyethanol (111-76-2)	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
	Based on available data, the classification criteria are not met.
STOT-single exposure	: May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Againstian barard	. Not clossified

Aspiration hazard : Not classified

Potential Adverse human health effects and

Symptoms/effects after inhalation

symptoms

: May cause respiratory irritation.

: Based on available data, the classification criteria are not met.

Symptoms/effects after skin contact : Causes burns/corrosion of the skin. Symptoms/effects after eye contact : Causes serious eye damage.

Symptoms/effects after ingestion : Abdominal pain. Burns to the gastric/intestinal mucosa. Gastrointestinal complaints. Nausea.

Vomiting.

# **SECTION 12: Ecological information**

# 12.1. Toxicity

(+)-limonene (5989-27-5)			
LC50 fish 1	720 μg/l (96 h; Pimephales promelas; Lethal)		
EC50 Daphnia 1	0.36 mg/l (48 h; Daphnia magna; GLP)		
LC50 fish 2	702 μg/l (96 h; Pimephales promelas)		
Threshold limit algae 1	150 mg/l (72 h; Desmodesmus subspicatus; GLP)		
Threshold limit algae 2	2.62 mg/l (72 h; Desmodesmus subspicatus)		
sodium xylenesulfonate (1300-72-7)			
LC50 fish 1	> 1580 mg/l (Rainbow trout)		
EC50 Daphnia 1	> 1020 mg/l		
ErC50 (algae)	758 mg/l		
NOEC chronic algae	240 mg/l		
2-phenoxyethanol (122-99-6)	2-phenoxyethanol (122-99-6)		
LC50 fish 1	345 mg/l (96 h; Pimephales promelas)		
EC50 Daphnia 1	357 mg/l (96 h; Chaetogammarus marinus)		
2-aminoethanol (141-43-5)			
LC50 fish 1	150 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)		
EC50 Daphnia 1	140 mg/l (24 h; Daphnia magna)		
LC50 fish 2	329.16 mg/l (96 h; Lepomis macrochirus)		
TLM fish 1	100 - 1000,96 h; Pisces		
TLM other aquatic organisms 1	100 - 1000,96 h		
Threshold limit algae 1	0.97 mg/l (192 h; Scenedesmus quadricauda; Inhibitory)		
Threshold limit algae 2	35 mg/l (72 h; Algae)		

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2-butoxyethanol (111-76-2)		
LC50 fish 1	116 ppm (96 h; Cyprinodon variegatus; Nominal concentration)	
EC50 Daphnia 1	1700 mg/l (48 h; Daphnia sp.; Nominal concentration)	
LC50 fish 2	1341 ppm (96 h; Lepomis macrochirus)	
EC50 Daphnia 2	1720 mg/l (24 h; Daphnia magna)	
TLM fish 1	100 - 1000,96 h; Pisces	
TLM other aquatic organisms 1	100 - 1000,96 h	
Threshold limit algae 1	900 mg/l (168 h; Scenedesmus quadricauda)	
Threshold limit algae 2	35 mg/l (192 h; Microcystis aeruginosa)	

# 12.2. Persistence and degradability

(+)-limonene (5989-27-5)		
Persistence and degradability	Readily biodegradable in water. Forming sediments in water. Absorbs into the soil.	
ThOD	3.29 g O <sub>2</sub> /g substance	
sodium xylenesulfonate (1300-72-7)		
Persistence and degradability	Biodegradability in water: no data available.	
2-phenoxyethanol (122-99-6)		
Persistence and degradability	Readily biodegradable in water.	
ThOD	2.47 g O <sub>2</sub> /g substance	
BOD (% of ThOD)	(20 day(s)) 0.75	
2-aminoethanol (141-43-5)		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil.	
Biochemical oxygen demand (BOD)	$0.8 \text{ g O}_2/\text{g substance}$	
Chemical oxygen demand (COD)	$1.34 \text{ g O}_2/\text{g substance}$	
ThOD	$2.49 \text{ g O}_2/\text{g substance}$	
BOD (% of ThOD)	0.32 % ThOD	
2-butoxyethanol (111-76-2)		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Photodegradation in the air.	
Biochemical oxygen demand (BOD)	0.71 g O₂/g substance	
Chemical oxygen demand (COD)	$2.2 \text{ g O}_2/\text{g substance}$	
ThOD	2.305 g O <sub>2</sub> /g substance	
BOD (% of ThOD)	0.31 % ThOD	

# 12.3. Bioaccumulative potential

(+)-limonene (5989-27-5)			
BCF fish 1	864.8 - 1022 (Pisces; Fresh weight)		
Log Pow	4.38 (Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method; 37 °C)		
Bioaccumulative potential	Potential for bioaccumulation (4 ≥ Log Kow ≤ 5).		
sodium xylenesulfonate (1300-72-7)			
Bioaccumulative potential	No bioaccumulation data available.		
2-phenoxyethanol (122-99-6)	2-phenoxyethanol (122-99-6)		
Log Pow	1.16 - 1.2		
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).		
2-aminoethanol (141-43-5)			
Log Pow	-1.91		
Bioaccumulative potential	Bioaccumulation: not applicable.		
2-butoxyethanol (111-76-2)			
Log Pow	0.81 (Experimental value; BASF test; 25 °C)		
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).		

#### 12.4. Other adverse effects

Other information : Avoid release to the environment.

# **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose of contents/container in accordance with Local, State, and Federal regulations.

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Ecology - waste materials : Avoid release to the environment.

#### **SECTION 14: Transport information**

#### 14.1. UN Number

UN-No.(DOT) : UN2491

Other information : Under 49 CFR 173.154(c) and (b)(2): This product may be shipped as ORM-D or Limited

Quantity if the inner packagings do not exceed 5 L (1.3 gallons) or 5.0 kg (11 lbs). This provision does not apply to transportation by vessel or aircraft, except where other means of

transportation is impracticable.

### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : UN2491, Ethanolamine Solutions, 8, PGIII

Hazard labels (DOT) : 8 - Corrosive



# **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

2-butoxyethanol	CAS-No. 111-76-2	5 - 10%
(+)-limonene (5989-27-5)		
Listed on the United States TSCA (Toxic Substantisted on the Canadian DSL (Domestic Substantial)	, ,	
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard	
sodium xylenesulfonate (1300-72-7)		
Listed on the United States TSCA (Toxic Substantisted on the Canadian DSL (Domestic Substantial		
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard	
2-phenoxyethanol (122-99-6)		
Listed on the United States TSCA (Toxic Substa	nces Control Act) inventory.	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard	
2-aminoethanol (141-43-5)		
Listed on the United States TSCA (Toxic Substa	nces Control Act) inventory.	
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard	
2-butoxyethanol (111-76-2)		
Listed on the United States TSCA (Toxic Substate Subject to reporting requirements of United States		
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard	

#### 15.2. International regulations

#### CANADA

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#### (+)-limonene (5989-27-5)

Listed on the Canadian DSL (Domestic Substances List).

#### proprietary ingredient (1300-72-7)

Listed on the Canadian DSL (Domestic Substances List).

#### **EU-Regulations**

No additional information available.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

15.2.2. National regulations

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm.

#### **SECTION 16: Other information**

Abbreviations Legend:

11000	
H226	Flammable liquid and vapor
H227	Combustible liquid
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H311	Toxic in contact with skin
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H331	Toxic if inhaled
H332	Harmful if inhaled
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

# Disclaimer

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ALL NON-EMERGENCY QUESTIONS SHOULD BE DIRECTED TO CUSTOMER SERVICE 1-(808) 942-2500

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