

SECTION 1: Identification

1.1. Identification

Product form : Mixture
 Product name : Mounting Medium, Acrylic
 Product code : 3349-04, 3349-16

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

Use of the substance/mixture : For laboratory and manufacturing use only.

1.3. Supplier

Astral Diagnostics Inc.
 Logan Township NJ 08085 - United States
 T +1 856 224 0900
 800-441-0366 Technical Service; Monday-Friday: 8:00AM-5:00 PM, Eastern US Time
 www.ethosbiosciences.com

1.4. Emergency telephone number

Emergency number : 800-424-9300 CHEMTREC (USA) -- 24 Hours/Day, 7 Days/Week

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Flammable liquids, Category 2	Highly flammable liquid and vapor
Skin corrosion/irritation, Category 2	Causes skin irritation
Specific target organ toxicity (single exposure), Category 3	May cause drowsiness or dizziness
Aspiration hazard, Category 1	May be fatal if swallowed and enters airways
Specific target organ toxicity (repeated exposure), Cat. 2	Causes damage to organs through prolonged or repeated exposure
Hazardous to the aquatic environment - Acute Hazard, Category 3	Harmful to aquatic life
Hazardous to the aquatic environment - Chronic Hazard, Category 3	Harmful to aquatic life with long lasting effects
Reproductive toxicity, Category 1B	May damage fertility or the unborn child.
Reproductive toxicity, Category 2	Suspected of damaging fertility or the unborn child.

2.2. GHS Label elements, including precautionary statements

GHS-US labeling

Hazard pictograms (GHS-US) :



GHS02

GHS07

GHS08

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) :

- H225 - Highly flammable liquid and vapor
- H304 - May be fatal if swallowed and enters airways
- H315 - Causes skin corrosion/irritation
- H336 - May cause drowsiness or dizziness
- H360 - May damage fertility or the unborn child.
- H361 - Suspected of damaging fertility or the unborn child.
- H373 - May cause damage to organs
- H402 - Harmful to aquatic life
- H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (GHS-US) :

- P203 - Obtain, read and follow all safety instructions before use.
- P210 - Keep away from heat, sparks, open flames, hot surfaces. No smoking.

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Precautionary statements (GHS-US)	P233 - Keep container tightly closed P240 - Ground/Bond container and receiving equipment P241 - Use explosion-proof equipment P242 - Use only non-sparking tools P243 - Take precautionary measures against static discharge P260 - Do not breathe dust/fume/gas/mist/vapors/spray P261 - Avoid breathing mists/vapors/spray P264 - Wash thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P273 - Avoid release to the environment P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301+P316+P331 - IF SWALLOWED: Get emergency medical help immediately. Do NOT induce vomiting. P302+P352 - IF ON SKIN: Wash with plenty of soap and water P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing P318 - If exposed or concerned, get medical advice P319 - Get medical help if you feel unwell. P332+P317 - If skin irritation occurs: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse P370+P378 - In case of fire: Use dry chemical, foam, or water spray to extinguish. P403+P233 - Store in a well-ventilated place. Keep container tightly closed P403+P235 - Store in a well-ventilated place. Keep cool P405 - Store locked up P501 - Dispose of contents/container in accordance with all local/regional/national regulations
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2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS-US classification
Toluene	(CAS No) 108-88-3	65-69	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304
Sanitizer® 160	(CAS No) 84-74-2 & (CAS No) 85-68-7	< 1	Repr. Tox. 1B, H360
2,6-Di-tert-butyl-p-cresol	(CAS No) 128-37-0	< 1	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
PARALOID™ B-67 Resin	(CAS No) 108-88-3 & (CAS No) 97-86-9	26-29	Repr. Tox. 2, H361

Full text of hazard classes and H-statements : see section 16

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SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general	: Call a poison center/doctor/physician if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects	: May cause drowsiness or dizziness.
Symptoms/effects after skin contact	: Irritation.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
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5.2. Specific hazards arising from the chemical

Fire hazard	: Highly flammable liquid and vapor.
Reactivity	: Highly flammable liquid and vapor.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures	: Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin & eyes.
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6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
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6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes.
Hygiene measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground/bond container and receiving equipment.
Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Toluene (108-88-3)		
ACGIH	ACGIH TWA (ppm)	20 ppm (Toluene; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
ACGIH	Remark (ACGIH)	Visual impair; female repro; pregnancy loss; A4; BEI
OSHA	Remark (OSHA)	(2) See Table Z-2.
Sanitizer® 160 - Dibutyl Phthalate (84-74-2)		
ACGIH	ACGIH TWA (mg/m ³)	5 mg/m ³ (Dibutyl phthalate; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
ACGIH	Remark (ACGIH)	Testicular dam; eye & URT irr
OSHA	OSHA PEL (TWA) (mg/m ³)	5 mg/m ³
2,6-Di-tert-butyl-p-cresol (128-37-0)		
ACGIH	ACGIH TWA (mg/m ³)	2 mg/m ³ (2,6-Di-tert-butyl-p-cresol; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Inhalable fraction and vapor)
ACGIH	Remark (ACGIH)	URT irr

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Color : Colorless
Odor : Pungent
Odor threshold : No data available

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pH	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 44 °F / 6°C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: 0.93
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Highly flammable liquid and vapor.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

PARALOID™ B-67 Resin - Isobutyl Methacrylate (97-86-9)	
LD50 oral rat	> 9,590 mg/kg (Rat)
LD50 dermal rabbit	> 3,000 mg/kg (Rabbit)
LC50 inhalation mouse (mg/l)	29.7 mg/l/4h (Mouse)

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Toluene (108-88-3)	
LD50 oral rat	> 2000 mg/kg (Rat; Equivalent or similar to OECD 401; Literature study; 5580 mg/kg bodyweight; Rat; Experimental value)
LD50 dermal rabbit	12223 mg/kg (Rabbit; Literature study; Other; >5000 mg/kg bodyweight; Rabbit; Experimental value)
LC50 inhalation rat (mg/l)	> 20 mg/l/4h (Rat; Literature study)
ATE US (dermal)	12223 mg/kg body weight

Sanitizer® 160 - Dibutyl Phthalate (84-74-2)	
LD50 oral rat	> 5000 mg/kg (Rat)
LD50 dermal rabbit	> 20900 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	> 15 mg/l/4h (Rat)

Sanitizer® 160 - Butyl Benzyl Phthalate (85-68-7)	
LD50 oral rat	2330 mg/kg (Rat)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit)

2,6-Di-tert-butyl-p-cresol (128-37-0)	
LD50 oral rat	890 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value; >6000 mg/kg bodyweight; Rat)
LD50 dermal rat	> 2000 mg/kg (Rat; Literature study; OECD 402: Acute Dermal Toxicity; >2000 mg/kg bodyweight; Rat; Experimental value)
ATE US (oral)	890 mg/kg body weight

Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Not classified
Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

Toluene (108-88-3)	
IARC group	3 - Not classifiable

2,6-Di-tert-butyl-p-cresol (128-37-0)	
IARC group	3 - Not classifiable

Reproductive toxicity : Not classified
Specific target organ toxicity – single exposure : May cause drowsiness or dizziness.
Specific target organ toxicity – repeated exposure : May cause damage to organs .
Aspiration hazard : Not classified
Symptoms/effects after skin contact : Irritation.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects. Harmful to aquatic life.

Sanitizer® 160 - Dibutyl Phthalate (84-74-2)	
LC50 fish 1	0.85 ppm (LC50; 96 h)
EC50 other aquatic organisms 1	9 mg/l (48 h; Scenedesmus subspicatus; Growth rate)
EC50 Daphnia 2	3.1 - 3.8 mg/l (EC50; 48 h)

2,6-Di-tert-butyl-p-cresol (128-37-0)	
LC50 fish 1	>= 0.57 mg/l (LC0; EU Method C.1; 96 h; Brachydanio rerio; Semi-static system; Fresh water; Experimental value)

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2,6-Di-tert-butyl-p-cresol (128-37-0)	
EC50 Daphnia 1	0.48 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
LC50 fish 2	0.199 mg/l (LC50; ECOSAR v1.00; 96 h; Pisces)
EC50 Daphnia 2	0.15 mg/l (NOEC; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
PARALOID™ B-67 Resin - Isobutyl Methacrylate (97-86-9)	
EC50 Daphnia 1	29 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
LC50 fish 2	20 mg/l (Oncorhynchus mykiss (rainbow trout); 96 h; Flow-through)
EC50 Daphnia 2	16 mg/l (Growth Rate Inhibition; 48 h; Pseudokirchneriella subcapitata (green algae))

12.2. Persistence and degradability

Toluene (108-88-3)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil.
Biochemical oxygen demand (BOD)	2.15 g O ₂ /g substance
Chemical oxygen demand (COD)	2.52 g O ₂ /g substance
ThOD	3.13 g O ₂ /g substance
BOD (% of ThOD)	0.69
Sanitizer® 160 - Dibutyl Phthalate (84-74-2)	
Persistence and degradability	Readily biodegradable in water. Forming sediments in water. Biodegradable in the soil. Adsorbs into the soil. Photolysis in the air.
Biochemical oxygen demand (BOD)	0.43 g O ₂ /g substance
ThOD	2.24 g O ₂ /g substance
BOD (% of ThOD)	0.19
2,6-Di-tert-butyl-p-cresol (128-37-0)	
Persistence and degradability	Not readily biodegradable in water. Biodegradable in the soil. Adsorbs into the soil. Low potential for mobility in soil. Photooxidation in the air.
Biochemical oxygen demand (BOD)	0.51 g O ₂ /g substance
Chemical oxygen demand (COD)	2.27 g O ₂ /g substance
ThOD	2.977 g O ₂ /g substance
BOD (% of ThOD)	0.17
PARALOID™ B-67 Resin - Isobutyl Methacrylate (97-86-9)	
Persistence and degradability	Readily biodegradable. Passes OECD test(s) for ready biodegradability.

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12.3. Bioaccumulative potential

Toluene (108-88-3)	
BCF fish 2	90 (BCF; 72 h; Leuciscus idus; Static system; Fresh water)
Log Pow	2.73 (Experimental value; Other; 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

Sanitizer® 160 - Dibutyl Phthalate (84-74-2)	
BCF fish 1	12 (BCF)
BCF fish 2	117 (BCF)
BCF other aquatic organisms 1	22 - 42 (BCF)
BCF other aquatic organisms 2	5000 (BCF; 72 h)
Log Pow	3.23 - 5.6
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).

2,6-Di-tert-butyl-p-cresol (128-37-0)	
BCF fish 1	230 - 2500 (BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 56 days; Cyprinus carpio; Flow-through system; Fresh water; Experimental value)
Log Pow	5.1 (Experimental value)
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).

2,6-Di-tert-butyl-p-cresol (128-37-0)	
BCF fish 1	230 - 2500 (BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 56 days; Cyprinus carpio; Flow-through system; Fresh water; Experimental value)
Log Pow	5.1 (Experimental value)
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).

12.4. Mobility in soil

Toluene (108-88-3)	
Surface tension	0.03 N/m (20 °C)

Sanitizer® 160 - Dibutyl Phthalate (84-74-2)	
Surface tension	0.034 N/m (20 °C)

2,6-Di-tert-butyl-p-cresol (128-37-0)	
Log Koc	Koc,PCKOCWIN v1.66; 23030; Calculated value; log Koc; PCKOCWIN v1.66; 4.362; Calculated value
Ecology - soil	May be harmful to plant growth, blooming and fruit formation.

12.5. Other adverse effects

No additional information available

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SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

Department of Transportation (DOT) In

accordance with DOT

Transport document description : UN1294 Toluene solution, 3, II

UN-No.(DOT) : UN1294

Proper Shipping Name (DOT) : Toluene solution

Class (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Packing group (DOT) : II - Medium Danger

Hazard labels (DOT) : 3 - Flammable liquid



DOT Quantity Limitations Passenger aircraft/
rail (49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only
(49 CFR 175.75)

Other information

: 5 L

: 60 L

: No supplementary information available

Transport by sea

Transport document description (IMDG) : UN 1294 TOLUENE SOLUTION, 3, II

UN-No. (IMDG) : 1294

Proper Shipping Name (IMDG) : TOLUENE SOLUTION

Class (IMDG) : 3 - Flammable liquids

Packing group (IMDG) : II - substances presenting medium danger

Limited quantities (IMDG) : 5 L

Air transport

Transport document description (IATA) : UN 1294 TOLUENE SOLUTION, 3, II

UN-No. (IATA) : 1294

Proper Shipping Name (IATA) Class
(IATA) : TOLUENE SOLUTION
: 3 - Flammable Liquids

Packing group (IATA) : II - Medium Danger

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SECTION 15: Regulatory information

15.1. US Federal regulations

Toluene (108-88-3)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1000 lb
SARA Section 311/312 Hazard Classes	Health hazard - Skin corrosion or Irritation Health hazard - Reproductive toxicity Physical hazard - Flammable (gases, aerosols, liquids, or solids) Health hazard - Specific target organ toxicity (single or repeated exposure) Health hazard - Aspiration hazard

Sanitizer® 160 - Dibutyl Phthalate (84-74-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA 313	
CERCLA RQ	10 lb

Sanitizer® 160 - Butyl Benzene Phthalate (85-68-7)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA 313	
CERCLA RQ	100 lb

2,6-Di-tert-butyl-p-cresol (128-37-0)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

15.2. International regulations

CANADA

Toluene (108-88-3)	
Listed on the Canadian DSL (Domestic Substances List)	

Sanitizer® 160 - Dibutyl Phthalate (84-74-2)	
Listed on the Canadian DSL (Domestic Substances List)	

2,6-Di-tert-butyl-p-cresol (128-37-0)	
Listed on the Canadian DSL (Domestic Substances List)	

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

Toluene (108-88-3)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	Yes	No	No	

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Sanitizer® 160 - Dibutyl Phthalate (84-74-2)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	Yes	Yes	Yes	

Toluene (108-88-3)
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know List)

Sanitizer® 160 - Dibutyl Phthalate (84-74-2)
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know List) U.S. - Massachusetts - RTK (Right to Know List)

Sanitizer® 160 - Butyl Benzene Phthalate (85-68-7)
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know List) U.S. - Massachusetts - RTK (Right to Know List)

2,6-Di-tert-butyl-p-cresol (128-37-0)
U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

Initial date : 11 DEC 2013
Revision date : 11 NOV 2022

Full text of H-phrases:

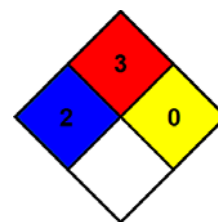
H225	Highly flammable liquid and vapor
H304	May be fatal if swallowed and enters airways
H315	Causes skin corrosion/irritation
H336	May cause drowsiness or dizziness
H360	May damage fertility or the unborn child
H361	Suspected of damaging fertility or the unborn child
H373	May cause damage to organs
H402	Harmful to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

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- NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
- NFPA fire hazard : 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.
- NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



Hazard Rating

- Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
- Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)
- Physical : 2 Moderate Hazard - Materials that are unstable and may undergo violent chemical changes at normal temperature and pressure with low risk for explosion. Materials may react violently with water or form peroxides upon exposure to air.
- Personal protection : H
H - Splash goggles, Gloves, Synthetic apron, Vapor respirator

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SDS US (GHS HazCom 2012)

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