

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY****1.1. Product Identifier****Product Name:** BoundaryMark® Gun Type All Colors**Product Code:** E&I 29 9, E&I 29 10, E&I 29 11, E&I 29 14, E&I 29 20, E&I 29 32**1.2. Intended Use of the Product****Use of the Substance/Mixture:** Tree and log marking paint**1.3. Name, Address, and Telephone of the Responsible Party****Company**

The Nelson Paint Company

One Nelson Drive

Kingsford, MI 49802

906-774-5567

[www.nelsonpaint.com](http://www.nelsonpaint.com)**1.4. Emergency Telephone Number****Emergency Number** : In US and Canada CHEMTEL: 1-800-255-3924**SECTION 2: HAZARDS IDENTIFICATION****2.1. Classification of the Substance or Mixture****Classification (GHS-US)**

Flam. Liq. 3 H226

Skin Irrit. 2 H315

Skin Sens. 1 H317

Muta. 1B H340

Carc. 1A H350

STOT SE 1 H370

STOT SE 3 H336

**2.2. Label Elements****GHS-US Labeling****Hazard Pictograms (GHS-US)****Signal Word (GHS-US)**

: Danger

**Hazard Statements (GHS-US)**: H226 - Flammable liquid and vapor  
H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H336 - May cause drowsiness or dizziness  
H340 - May cause genetic defects  
H350 - May cause cancer  
H370 - Causes damage to organs**Precautionary Statements (GHS-US)**: P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P210 - Keep away from heat, hot surfaces, open flames, sparks - No smoking.  
P233 - Keep container tightly closed.  
P240 - Ground/bond container and receiving equipment.  
P241 - Use explosion-proof electrical, lighting, ventilating equipment.  
P242 - Use only non-sparking tools.  
P243 - Take precautionary measures against static discharge.  
P260 - Do not breathe dust, mist, spray, vapors.  
P264 - Wash hands, forearms, and exposed areas 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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P272 - Contaminated work clothing should not be allowed out of the workplace.  
P280 - Wear eye protection, protective clothing, protective gloves, respiratory protection.  
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.  
P303+P361+P353 - IF ON SKIN (or hair): Remove/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.  
P308+P313 - IF exposed or concerned: Get medical advice/attention.  
P312 - Call a POISON CENTER or doctor if you feel unwell.  
P321 - Specific treatment (see Section 4).  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P333+P313 - If skin irritation or rash 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 powder, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>) for extinction.  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
P235 - Keep cool.  
P405 - Store locked up.  
P501 - Dispose of contents/container according to local, regional, national, and international regulations.

### 2.3. Other Hazards

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

### 3.2. Mixtures

Name	Product Identifier	%	Classification (GHS-US)
Petroleum distillates, hydrotreated light	(CAS No) 64742-47-8	40 - 65	Flam. Liq. 3, H226 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Titanium dioxide	(CAS No) 13463-67-7	0 - 40	Carc. 2, H351
Xylenes (o-, m-, p- isomers)	(CAS No) 1330-20-7	0 - 3	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315
Methyl alcohol	(CAS No) 67-56-1	0.9 - 1.5	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:vapour), H331 STOT SE 1, H370
Methyl ethyl ketoxime	(CAS No) 96-29-7	0.3 - 0.5	Acute Tox. 4 (Dermal), H312 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 2, H351
Ethylbenzene	(CAS No) 100-41-4	0 - 0.5	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation:dust,mist), H332 Muta. 1B, H340 Carc. 1A, H350 STOT RE 2, H373 Asp. Tox. 1, H304

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			Aquatic Chronic 3, H412
Naphtha, petroleum, hydrotreated heavy	(CAS No) 64742-48-9	0.1 - 0.2	Muta. 1B, H340 Carc. 1B, H350 Asp. Tox. 1, H304
Stoddard solvent	(CAS No) 8052-41-3	0.1 - 0.2	Flam. Liq. 3, H226 Muta. 1B, H340 Carc. 1B, H350 Asp. Tox. 1, H304
Quartz	(CAS No) 14808-60-7	0.08 - 0.2	Carc. 1A, H350 STOT SE 3, H335 STOT RE 1, H372

Full text of H-phrases: see section 16

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of First Aid Measures

**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:** When symptoms occur: go into open air and ventilate suspected area. If exposed or concerned: Get medical advice/attention.

**First-aid Measures After Skin Contact:** Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.

**First-aid Measures After Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persist.

**First-aid Measures After Ingestion:** Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor.

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

**Symptoms/Injuries:** May cause an allergic skin reaction. Irritation to eyes, skin and respiratory tract. Inhalation may affect the nervous system causing headache, possibly dizziness, nausea, weakness, loss of coordination and unconsciousness.

**Symptoms/Injuries After Inhalation:** May cause cancer by inhalation. Danger of serious damage to health by prolonged exposure through inhalation. May cause irritation or asthma-like symptoms. May cause drowsiness or dizziness.

**Symptoms/Injuries After Skin Contact:** Causes skin irritation. May cause an allergic skin reaction.

**Symptoms/Injuries After Eye Contact:** Causes serious eye irritation.

**Symptoms/Injuries After Ingestion:** Harmful if swallowed.

**Chronic Symptoms:** May cause cancer. May cause heritable genetic damage. Causes organ damage from repeated exposure.

### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>).

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Flammable liquid and vapor.

**Explosion Hazard:** May form flammable/explosive vapor-air mixture.

**Reactivity:** Stable at ambient temperature and under normal conditions of use.

### 5.3. Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Use special care to avoid static electric charges. Keep away from heat/sparks/open flames/hot surfaces – No smoking. Do NOT breathe (dust, vapor, mist). Do not get in eyes, on skin, or on clothing.

#### 6.1.1. For Non-emergency Personnel

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

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### 6.1.2. For Emergency Responders

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Ventilate area. Stop release.

### 6.2. Environmental Precautions

Prevent entry to sewers and public waters.

### 6.3. Methods and Material for Containment and Cleaning Up

**For Containment:** Absorb and/or contain spill with inert material, then place in suitable container. Do not take up in combustible material such as: saw dust or cellulosic material.

**Methods for Cleaning Up:** Use only non-sparking tools. Clear up spills immediately and dispose of waste safely.

### 6.4. Reference to Other Sections

See section 8, Exposure Controls and Personal Protection.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

**Additional Hazards When Processed:** Handle empty containers with care because residual vapors are flammable.

**Precautions for Safe Handling:** Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces – No smoking. Do not get in eyes, on skin, or on clothing.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof electrical, ventilating, lighting equipment.

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Store locked up.

**Incompatible Products:** Strong acids. Strong bases. Strong oxidizers.

### 7.3. Specific End Use(s)

Tree and log marking paint

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

Titanium dioxide (13463-67-7)		
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
USA IDLH	US IDLH (mg/m <sup>3</sup> )	5000 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup>
Silica, amorphous (7631-86-9)		
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	6 mg/m <sup>3</sup>
USA IDLH	US IDLH (mg/m <sup>3</sup> )	3000 mg/m <sup>3</sup>
Stoddard solvent (8052-41-3)		
USA ACGIH	ACGIH TWA (ppm)	100 ppm
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	350 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (ceiling) (mg/m <sup>3</sup> )	1800 mg/m <sup>3</sup>
USA IDLH	US IDLH (mg/m <sup>3</sup> )	20000 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	2900 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	500 ppm
Nonane (111-84-2)		
USA ACGIH	ACGIH TWA (ppm)	200 ppm
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	1050 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (TWA) (ppm)	200 ppm
Propylene glycol monomethyl ether (107-98-2)		
USA ACGIH	ACGIH TWA (ppm)	100 ppm
USA ACGIH	ACGIH STEL (ppm)	150 ppm
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	360 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (TWA) (ppm)	100 ppm
USA NIOSH	NIOSH REL (STEL) (mg/m <sup>3</sup> )	540 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (STEL) (ppm)	150 ppm

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<b>Quartz (14808-60-7)</b>		
<b>USA ACGIH</b>	ACGIH TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL (TWA) (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>
<b>USA IDLH</b>	US IDLH (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
<b>Methyl alcohol (67-56-1)</b>		
<b>USA ACGIH</b>	ACGIH TWA (ppm)	200 ppm
<b>USA ACGIH</b>	ACGIH STEL (ppm)	250 ppm
<b>USA NIOSH</b>	NIOSH REL (TWA) (mg/m <sup>3</sup> )	260 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL (TWA) (ppm)	200 ppm
<b>USA NIOSH</b>	NIOSH REL (STEL) (mg/m <sup>3</sup> )	325 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL (STEL) (ppm)	250 ppm
<b>USA IDLH</b>	US IDLH (ppm)	6000 ppm
<b>USA OSHA</b>	OSHA PEL (TWA) (mg/m <sup>3</sup> )	260 mg/m <sup>3</sup>
<b>USA OSHA</b>	OSHA PEL (TWA) (ppm)	200 ppm
<b>Ethylbenzene (100-41-4)</b>		
<b>USA ACGIH</b>	ACGIH TWA (ppm)	20 ppm
<b>USA NIOSH</b>	NIOSH REL (TWA) (mg/m <sup>3</sup> )	435 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL (TWA) (ppm)	100 ppm
<b>USA NIOSH</b>	NIOSH REL (STEL) (mg/m <sup>3</sup> )	545 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL (STEL) (ppm)	125 ppm
<b>USA IDLH</b>	US IDLH (ppm)	800 ppm (10% LEL)
<b>USA OSHA</b>	OSHA PEL (TWA) (mg/m <sup>3</sup> )	435 mg/m <sup>3</sup>
<b>USA OSHA</b>	OSHA PEL (TWA) (ppm)	100 ppm
<b>Xylenes (o-, m-, p- isomers) (1330-20-7)</b>		
<b>USA ACGIH</b>	ACGIH TWA (ppm)	100 ppm
<b>USA ACGIH</b>	ACGIH STEL (ppm)	150 ppm
<b>USA OSHA</b>	OSHA PEL (TWA) (mg/m <sup>3</sup> )	435 mg/m <sup>3</sup>
<b>USA OSHA</b>	OSHA PEL (TWA) (ppm)	100 ppm
<b>Barium sulfate (7727-43-7)</b>		
<b>USA ACGIH</b>	ACGIH TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL (TWA) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
<b>USA OSHA</b>	OSHA PEL (TWA) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
<b>Kaolin (1332-58-7)</b>		
<b>USA ACGIH</b>	ACGIH TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL (TWA) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
<b>USA OSHA</b>	OSHA PEL (TWA) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>

## 8.2. Exposure Controls

### Appropriate Engineering Controls

- : Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment. Ensure all national/local regulations are observed. Gas detectors should be used when flammable gases/vapours may be released. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

### Personal Protective Equipment

- : Fireproof clothing. Gloves. Insufficient ventilation: wear respiratory protection. Face shield.



### Hand Protection

- : Wear chemically resistant protective gloves.

### Eye Protection

- : Chemical goggles or safety glasses.

### Skin and Body Protection

- : Wear suitable protective clothing.

### Respiratory Protection

- : Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

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### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1. Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: Various.
Odor	: Solvent.
Odor Threshold	: No data available
pH	: No data available
Relative Evaporation Rate (butylacetate=1)	: < 1
Melting Point	: No data available
Freezing Point	: No data available
Boiling Point	: 64 - 195 °C (148 - 383 °F)
Flash Point	: 32 °C (90 °F) open cup
Auto-ignition Temperature	: No data available
Decomposition Temperature	: No data available
Flammability (solid, gas)	: No data available
Upper Flammable Limit	: 36 %
Lower Flammable Limit	: 0.7 %
Vapor Pressure	: No data available
Relative Vapor Density at 20 °C	: > 1 (air = 1)
Relative Density	: 0.89 - 1.01 (water = 1)
Specific Gravity	: 0.89 - 1.01
Solubility	: In water, material is partially soluble.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, Kinematic	: No data available
Viscosity, Dynamic	: No data available
Explosive Properties	: No data available
Oxidizing Properties	: No data available
Explosive Limits	: No data available

#### 9.2. Other Information

VOC content : 44 - 47 %

### SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Stable at ambient temperature and under normal conditions of use.

**Chemical Stability:** Flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**Conditions to Avoid:** Direct sunlight. Extremely high or low temperatures. Open flame. Sparks.

**Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers.

**Hazardous Decomposition Products:** Carbon oxides (CO, CO<sub>2</sub>).

### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1. Information On Toxicological Effects

Acute Toxicity : Not classified

<b>Titanium dioxide (13463-67-7)</b>	
LD50 Oral Rat	> 10000 mg/kg
<b>Aluminum hydroxide (21645-51-2)</b>	
LD50 Oral Rat	> 5000 mg/kg
<b>Silica, amorphous (7631-86-9)</b>	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg
LC50 Inhalation Rat (mg/l)	> 2.2 mg/l (Exposure time: 1 h)

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<b>Petroleum distillates, hydrotreated light (64742-47-8)</b>	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg
LC50 Inhalation Rat (mg/l)	> 5.2 mg/l (Exposure time: 4 h)
<b>Stoddard solvent (8052-41-3)</b>	
LD50 Oral Rat	> 5 g/kg Behavioral somnolence
LD50 Dermal Rabbit	> 3 mg/kg
<b>Diethylene glycol monomethyl ether (111-77-3)</b>	
LD50 Oral Rat	4 ml/kg
LD50 Dermal Rabbit	2500 µl/kg
<b>Naphtha, petroleum, hydrotreated heavy (64742-48-9)</b>	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rabbit	> 3160 mg/kg
<b>Nonane (111-84-2)</b>	
LC50 Inhalation Rat (ppm)	3200 ppm (Exposure time: 4 h)
<b>Propylene glycol monomethyl ether (107-98-2)</b>	
LD50 Oral Rat	5200 mg/kg
LD50 Dermal Rabbit	13000 mg/kg
LC50 Inhalation Rat (mg/l)	> 24 mg/l (Exposure time: 1 h)
<b>2,2'-Bipyridine (366-18-7)</b>	
LD50 Oral Rat	100 mg/kg
LD50 Dermal Rat	250 mg/kg
<b>Methyl ethyl ketoxime (96-29-7)</b>	
LD50 Oral Rat	930 mg/kg
LD50 Dermal Rabbit	0.2 mg/kg
LC50 Inhalation Rat (mg/l)	20 mg/l (Exposure time: 4 h)
<b>Quartz (14808-60-7)</b>	
LD50 Oral Rat	> 5000 mg/kg
<b>Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, salts with bentonite (68953-58-2)</b>	
LD50 Oral Rat	> 5000 mg/kg
LC50 Inhalation Rat (mg/l)	> 12.6 mg/l (Exposure time: 4 h)
<b>Methyl alcohol (67-56-1)</b>	
ATE (Oral)	100.000 mg/kg body weight
ATE (Dermal)	300.000 mg/kg body weight
ATE (Vapors)	3.000 mg/l/4h
<b>Ethylbenzene (100-41-4)</b>	
LD50 Oral Rat	3500 mg/kg
LD50 Dermal Rabbit	15354 mg/kg
LC50 Inhalation Rat (mg/l)	17.2 mg/l/4h (Exposure time: 4 h)
ATE (Dust/Mist)	1.500 mg/l/4h
<b>Xylenes (o-, m-, p- isomers) (1330-20-7)</b>	
LD50 Oral Rat	4300 mg/kg
LD50 Dermal Rabbit	> 1700 mg/kg
LC50 Inhalation Rat (mg/l)	47635 mg/l/4h (Exposure time: 4 h)
LC50 Inhalation Rat (ppm)	5000 ppm (Exposure time: 4 h)
ATE (Dermal)	1100.000 mg/kg body weight
ATE (Vapors)	11.000 mg/l/4h
<b>C.I. Pigment Green 7 (1328-53-6)</b>	
LD50 Oral Rat	> 3000 mg/kg

**Skin Corrosion/Irritation:** Causes skin irritation.

**Serious Eye Damage/Irritation:** Not classified

**Respiratory or Skin Sensitization:** May cause an allergic skin reaction.

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**Germ Cell Mutagenicity:** May cause genetic defects.

**Carcinogenicity:** May cause cancer.

<b>Titanium dioxide (13463-67-7)</b>	
IARC group	2B
National Toxicity Program (NTP) Status	Evidence of carcinogenicity
<b>Silica, amorphous (7631-86-9)</b>	
IARC group	3
<b>Quartz (14808-60-7)</b>	
IARC group	1
National Toxicity Program (NTP) Status	Known human carcinogen
<b>Ethylbenzene (100-41-4)</b>	
IARC group	2B
National Toxicity Program (NTP) Status	Evidence of carcinogenicity
<b>Xylenes (o-, m-, p- isomers) (1330-20-7)</b>	
IARC group	3
National Toxicity Program (NTP) Status	Evidence of carcinogenicity
<b>C.I. Pigment Red 3 (2425-85-6)</b>	
IARC group	3
National Toxicity Program (NTP) Status	Evidence of carcinogenicity

**Reproductive Toxicity:** Not classified

**Specific Target Organ Toxicity (Single Exposure):** Causes damage to organs. May cause drowsiness or dizziness.

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** May cause cancer by inhalation. Danger of serious damage to health by prolonged exposure through inhalation. May cause irritation or asthma-like symptoms. May cause drowsiness or dizziness.

**Symptoms/Injuries After Skin Contact:** Causes skin irritation. May cause an allergic skin reaction.

**Symptoms/Injuries After Eye Contact:** Causes serious eye irritation.

**Symptoms/Injuries After Ingestion:** Harmful if swallowed.

**Chronic Symptoms:** May cause cancer. May cause heritable genetic damage. Causes damage to organs through prolonged or repeated exposure.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

<b>Silica, amorphous (7631-86-9)</b>	
LC50 Fish 1	5000 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])
EC50 Daphnia 1	7600 mg/l (Exposure time: 48 h - Species: Ceriodaphnia dubia)
EC50 Other Aquatic Organisms 1	440 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata)
<b>C.I. Pigment Blue 15 (147-14-8)</b>	
LC50 Fish 1	> 100 mg/l (Exposure time: 48 h - Species: Oryzias latipes [static])
<b>Petroleum distillates, hydrotreated light (64742-47-8)</b>	
LC50 Fish 1	45 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	4720 mg/l (Exposure time: 96 h - Species: Den-dronereides heteropoda)
LC 50 Fish 2	2.2 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
<b>Diethylene glycol monomethyl ether (111-77-3)</b>	
LC50 Fish 1	7500 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1	> 500 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 Other Aquatic Organisms 1	> 500 mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus)
<b>Naphtha, petroleum, hydrotreated heavy (64742-48-9)</b>	
LC50 Fish 1	2200 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
EC50 Daphnia 1	2.6 mg/l (Exposure time: 96 h - Species: Chaetogammarus marinus)
<b>Propylene glycol monomethyl ether (107-98-2)</b>	
LC50 Fish 1	20.8 g/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 1	23300 mg/l (Exposure time: 48 h - Species: Daphnia magna)



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<b>LC 50 Fish 2</b>	4600 - 10000 mg/l (Exposure time: 96 h - Species: Leuciscus idus [static])
<b>Methyl ethyl ketoxime (96-29-7)</b>	
<b>LC50 Fish 1</b>	777 - 914 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
<b>EC50 Daphnia 1</b>	750 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>EC50 Other Aquatic Organisms 1</b>	83 mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus)
<b>LC 50 Fish 2</b>	320 - 1000 mg/l (Exposure time: 96 h - Species: Leuciscus idus [static])
<b>Methyl alcohol (67-56-1)</b>	
<b>LC50 Fish 1</b>	28200 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
<b>LC 50 Fish 2</b>	> 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
<b>Ethylbenzene (100-41-4)</b>	
<b>LC50 Fish 1</b>	11.0 - 18.0 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
<b>EC50 Daphnia 1</b>	1.8 - 2.4 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>EC50 Other Aquatic Organisms 1</b>	4.6 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata)
<b>LC 50 Fish 2</b>	4.2 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static])
<b>EC50 Other Aquatic Organisms 2</b>	> 438 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata)
<b>Xylenes (o-, m-, p- isomers) (1330-20-7)</b>	
<b>LC50 Fish 1</b>	13.4 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
<b>EC50 Daphnia 1</b>	3.82 mg/l (Exposure time: 48 h - Species: water flea)
<b>LC 50 Fish 2</b>	2.661 (2.661 - 4.093) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
<b>EC50 Daphnia 2</b>	0.6 mg/l (Exposure time: 48 h - Species: Gammarus lacustris)
<b>C.I. Pigment Green 7 (1328-53-6)</b>	
<b>LC50 Fish 1</b>	752.4 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
<b>EC50 Daphnia 1</b>	> 500 mg/l (Exposure time: 24 h - Species: Daphnia magna Straus)
<b>12.2. Persistence and Degradability</b> No additional information available	
<b>12.3. Bioaccumulative Potential</b>	
<b>Silica, amorphous (7631-86-9)</b>	
<b>BCF fish 1</b>	(no bioaccumulation expected)
<b>Zirconium oxide (1314-23-4)</b>	
<b>BCF fish 1</b>	(no bioaccumulation)
<b>C.I. Pigment Blue 15 (147-14-8)</b>	
<b>BCF fish 1</b>	0.3 - 11
<b>Log Pow</b>	6.6 (at 25 °C)
<b>Petroleum distillates, hydrotreated light (64742-47-8)</b>	
<b>BCF fish 1</b>	61 - 159
<b>Stoddard solvent (8052-41-3)</b>	
<b>Log Pow</b>	3.16 (Octanol/water partition coefficient 3.16/7.06)
<b>Diethylene glycol monomethyl ether (111-77-3)</b>	
<b>Log Pow</b>	-0.682
<b>Propylene glycol monomethyl ether (107-98-2)</b>	
<b>BCF fish 1</b>	< 2
<b>Log Pow</b>	-0.437
<b>Methyl ethyl ketoxime (96-29-7)</b>	
<b>BCF fish 1</b>	0.5 - 5.8
<b>Log Pow</b>	0.65 (at 25 °C)
<b>Methyl alcohol (67-56-1)</b>	
<b>BCF fish 1</b>	< 10
<b>Log Pow</b>	-0.77
<b>Ethylbenzene (100-41-4)</b>	
<b>BCF fish 1</b>	15
<b>Log Pow</b>	3.118

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<b>Xylenes (o-, m-, p- isomers) (1330-20-7)</b>	
<b>BCF fish 1</b>	0.6 (0.6 - 15)
<b>Log Pow</b>	2.77 - 3.15
<b>C.I. Pigment Green 7 (1328-53-6)</b>	
<b>BCF fish 1</b>	0.51 - 74

**12.4. Mobility in Soil** No additional information available

### 12.5. Other Adverse Effects

No additional information available

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, and international regulations.

**Additional Information:** Handle empty containers with care because residual vapors are flammable.

## SECTION 14: TRANSPORT INFORMATION

In Accordance With ICAO/IATA/DOT/TDG

### 14.1. UN Number

**UN-No.(DOT)** : 1263  
**DOT NA no.** UN1263

### 14.2. UN Proper Shipping Name

**DOT Proper Shipping Name** : Paint  
including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler, and liquid lacquer base

**Department of Transportation (DOT)** : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

**Hazard Classes**

**Hazard Labels (DOT)** : 3 - Flammable liquids



**Packing Group (DOT)** : III - Minor Danger

**DOT Special Provisions (49 CFR 172.102)** : B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable.

B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks.

IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional

Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).

T2 - 1.5 178.274(d)(2) Normal..... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling =  $97 / (1 + a (tr - tf))$  Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

TP29 - A portable tank having a minimum test pressure of 1.5 bar (150.0 kPa) may be used provided the calculated test pressure is 1.5 bar or less based on the MAWP of the hazardous materials, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

**DOT Packaging Exceptions (49 CFR 173.xxx)** : 150

**DOT Packaging Non Bulk (49 CFR 173.xxx)** : 173

**DOT Packaging Bulk (49 CFR 173.xxx)** : 242

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### 14.3. Additional Information

Emergency Response Guide (ERG) Number : 128

Other information : No supplementary information available.

#### Transport by Sea

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

#### Air Transport

DOT Quantity Limitations Passenger Aircraft/Rail (49 CFR 173.27) : 60 L

DOT Quantity Limitations Cargo Aircraft Only (49 CFR 175.75) : 220 L

## SECTION 15: REGULATORY INFORMATION

### US Federal Regulations

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<b>SARA Section 311/312 Hazard Classes</b>	Fire hazard Delayed (chronic) health hazard
<b>Titanium dioxide (13463-67-7)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Aluminum hydroxide (21645-51-2)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Silica, amorphous (7631-86-9)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Zirconium oxide (1314-23-4)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>C.I. Pigment Blue 15 (147-14-8)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Linseed oil (8001-26-1)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>EPA TSCA Regulatory Flag</b>	Y2 - Y2 - indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.
<b>Petroleum distillates, hydrotreated light (64742-47-8)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Stoddard solvent (8052-41-3)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Diethylene glycol monomethyl ether (111-77-3)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>2-Ethylhexanoic acid, manganese salt (15956-58-8)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Neodecanoic acid, manganese salt (27253-32-3)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Naphtha, petroleum, hydrotreated heavy (64742-48-9)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Nonane (111-84-2)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Calcium 2-ethylhexanoate (136-51-6)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Calcium neodecanoate (27253-33-4)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Propylene glycol monomethyl ether (107-98-2)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

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<b>2,2'-Bipyridine (366-18-7)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Methyl ethyl ketoxime (96-29-7)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>EPA TSCA Regulatory Flag</b>	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.
<b>Quartz (14808-60-7)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, salts with bentonite (68953-58-2)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Methyl alcohol (67-56-1)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Listed on SARA Section 313 (Specific toxic chemical listings)	
<b>SARA Section 311/312 Hazard Classes</b>	Delayed (chronic) health hazard Immediate (acute) health hazard Fire hazard
<b>SARA Section 313 - Emission Reporting</b>	1.0 %
<b>D and C Orange No. 17 (3468-63-1)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Ethylbenzene (100-41-4)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Listed on SARA Section 313 (Specific toxic chemical listings)	
<b>RQ (Reportable quantity, section 304 of EPA's List of Lists) :</b>	1000 lb
<b>SARA Section 313 - Emission Reporting</b>	0.1 %
<b>Xylenes (o-, m-, p- isomers) (1330-20-7)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Listed on SARA Section 313 (Specific toxic chemical listings)	
<b>RQ (Reportable quantity, section 304 of EPA's List of Lists) :</b>	100 lb
<b>SARA Section 313 - Emission Reporting</b>	1.0 %
<b>C.I. Pigment Green 7 (1328-53-6)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Barium sulfate (7727-43-7)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>C.I. Pigment Red 3 (2425-85-6)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Pigment yellow 74 (6358-31-2)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Butanamide, 2-[(4-methoxy-2-nitrophenyl)azo]-N-(2-methoxyphenyl)-3-oxo- (6528-34-3)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Water (7732-18-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Kaolin (1332-58-7)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>US State Regulations</b>	
<b>Titanium dioxide (13463-67-7)</b>	
<b>U.S. - California - Proposition 65 - Carcinogens List</b>	WARNING: This product contains chemicals known to the State of California to cause cancer.
<b>Quartz (14808-60-7)</b>	
<b>U.S. - California - Proposition 65 - Carcinogens List</b>	WARNING: This product contains chemicals known to the State of California to cause cancer.
<b>Methyl alcohol (67-56-1)</b>	
<b>U.S. - California - Proposition 65 - Developmental Toxicity</b>	WARNING: This product contains chemicals known to the

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	State of California to cause birth defects.
<b>D and C Orange No. 17 (3468-63-1)</b>	
U.S. - California - Proposition 65 - Carcinogens List	WARNING: This product contains chemicals known to the State of California to cause cancer.
<b>Ethylbenzene (100-41-4)</b>	
U.S. - California - Proposition 65 - Carcinogens List	WARNING: This product contains chemicals known to the State of California to cause cancer.
<b>Titanium dioxide (13463-67-7)</b>	
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List	
<b>Silica, amorphous (7631-86-9)</b>	
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List	
<b>Zirconium oxide (1314-23-4)</b>	
U.S. - Massachusetts - Right To Know List	
<b>Linseed oil (8001-26-1)</b>	
U.S. - Pennsylvania - RTK (Right to Know) List	
<b>Stoddard solvent (8052-41-3)</b>	
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List	
<b>Diethylene glycol monomethyl ether (111-77-3)</b>	
U.S. - Massachusetts - Right To Know List U.S. - Pennsylvania - RTK (Right to Know) List	
<b>Nonane (111-84-2)</b>	
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List	
<b>Propylene glycol monomethyl ether (107-98-2)</b>	
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List	
<b>Quartz (14808-60-7)</b>	
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List	
<b>Methyl alcohol (67-56-1)</b>	
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S. - Pennsylvania - RTK (Right to Know) List	
<b>Ethylbenzene (100-41-4)</b>	
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S. - Pennsylvania - RTK (Right to Know) List	
<b>Xylenes (o-, m-, p- isomers) (1330-20-7)</b>	
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S. - Pennsylvania - RTK (Right to Know) List	

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### Barium sulfate (7727-43-7)

U.S. - Massachusetts - Right To Know List  
U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List

### Kaolin (1332-58-7)

U.S. - Massachusetts - Right To Know List  
U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List

## SECTION 16: OTHER INFORMATION

**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

### GHS Full Text Phrases:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Asp. Tox. 1	Aspiration hazard Category 1
Carc. 1A	Carcinogenicity Category 1A
Carc. 1B	Carcinogenicity Category 1B
Carc. 2	Carcinogenicity Category 2
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 2	Flammable liquids Category 2
Flam. Liq. 3	Flammable liquids Category 3
Flam. Liq. 4	Flammable liquids Category 4
Muta. 1B	Germ cell mutagenicity Category 1B
Repr. 2	Reproductive toxicity Category 2
Skin Irrit. 2	skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 1	Specific target organ toxicity (single exposure) Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H227	Combustible liquid
H301	Toxic if swallowed
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
H315	Causes skin irritation
H317	May cause an allergic skin reaction

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H318	Causes serious eye damage
H319	Causes serious eye irritation
H331	Toxic if inhaled
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H340	May cause genetic defects
H350	May cause cancer
H351	Suspected of causing cancer
H361	Suspected of damaging fertility or the unborn child
H370	Causes damage to organs
H372	Causes damage to organs through prolonged or repeated exposure
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

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