

# SAFETY DATA SHEET

# RESISTO

## SUPREME ROOF REPAIR

### Section 1. Identification

**GHS product identifier** : SUPREME ROOF REPAIR  
**Document product code** : CA U DRU SS FS 212  
**Other means of identification** : Not available.  
**Product type** : Liquid.

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

**Identified uses** : Restoration of roof.

**Supplier/Manufacturer** : RESISTO  
 327 9th Avenue  
 Richmond (Quebec) J0B 2H0  
 CANADA

**Emergency telephone number (with hours of operation)** : SOPREMA Inc. / CANUTEC / CHEMTREC  
 +1 (800) 567-1492 (SOPREMA Inc.) / +1 (613) 996-6666 (CANUTEC) / +1 (800) 424-9300 (CHEMTREC Acct.# CCN20515)  
 SOPREMA Inc. (8h00-17h00) / CANUTEC (24h) / CHEMTREC (24h)

### Section 2. Hazards identification

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture** : FLAMMABLE LIQUIDS - Category 3  
 SKIN CORROSION/IRRITATION - Category 2  
 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A  
 GERM CELL MUTAGENICITY - Category 1  
 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous system (CNS), respiratory tract) - Category 1  
 AQUATIC HAZARD (ACUTE) - Category 2  
 AQUATIC HAZARD (LONG-TERM) - Category 2

#### GHS label elements

**Hazard pictograms** :



**Signal word** : Danger



## Section 2. Hazards identification

<b>Hazard statements</b>	<ul style="list-style-type: none"> <li>: H226 - Flammable liquid and vapor.</li> <li>H319 - Causes serious eye irritation.</li> <li>H315 - Causes skin irritation.</li> <li>H340 - May cause genetic defects.</li> <li>H372 - Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS), respiratory tract)</li> <li>H411 - Toxic to aquatic life with long lasting effects.</li> </ul>
<b><u>Precautionary statements</u></b>	
<b>Prevention</b>	<ul style="list-style-type: none"> <li>: P201 - Obtain special instructions before use.</li> <li>P202 - Do not handle until all safety precautions have been read and understood.</li> <li>P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.</li> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.</li> <li>P242 - Use only non-sparking tools.</li> <li>P243 - Take precautionary measures against static discharge.</li> <li>P233 - Keep container tightly closed.</li> <li>P273 - Avoid release to the environment.</li> <li>P260 - Do not breathe vapor.</li> <li>P270 - Do not eat, drink or smoke when using this product.</li> <li>P264 - Wash hands thoroughly after handling.</li> </ul>
<b>Response</b>	<ul style="list-style-type: none"> <li>: P391 - Collect spillage.</li> <li>P314 - Get medical attention if you feel unwell.</li> <li>P308 + P313 - IF exposed or concerned: Get medical attention.</li> <li>P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.</li> <li>P302 + P352 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse.</li> <li>P332 + P313 - If skin irritation occurs: Get medical attention.</li> <li>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P337 + P313 - If eye irritation persists: Get medical attention.</li> </ul>
<b>Storage</b>	<ul style="list-style-type: none"> <li>: P405 - Store locked up.</li> <li>P403 - Store in a well-ventilated place.</li> <li>P235 - Keep cool.</li> </ul>
<b>Disposal</b>	<ul style="list-style-type: none"> <li>: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> </ul>
<b>Hazards not otherwise classified</b>	<ul style="list-style-type: none"> <li>: None known.</li> </ul>

## Section 3. Composition/information on ingredients

<b>Substance/mixture</b>	: Mixture
<b>Other means of identification</b>	: Not available.



## Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
Residues (petroleum), vacuum	≥25 - ≤50	64741-56-6
Solvent naphtha (petroleum), light arom.	≥5 - ≤10	64742-95-6
Solvent naphtha (petroleum), medium aliph.	≥5 - ≤10	64742-88-7
Stoddard solvent	≥5 - ≤10	8052-41-3
Dec-1-ene	≥5 - ≤10	872-05-9
Sulfur	≥1 - ≤3	7704-34-9
Crystalline silica, respirable powder	≥1 - ≤3	14808-60-7
Aromatic hydrocarbons, C9-11	≥1 - ≤3	70693-06-0
1-Propanamine, 3-(C9-11-isoalkyloxy) derivs., C10-rich	≥1 - ≤2.9	218141-16-3

Since the carcinogenic ingredients in this compound are encapsulated, the risk of exposure by inhalation is minimal when used in accordance with the user documentation.

United States: The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

Canada: The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with the amended HPR as of April 2018.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Flush contaminated skin with plenty of water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Causes skin irritation.
- Ingestion** : No known significant effects or critical hazards.



## Section 4. First aid measures

### Over-exposure signs/symptoms

- |                     |  |
|---------------------|--|
| <b>Eye contact</b>  | : Adverse symptoms may include the following:<br>pain or irritation<br>watering<br>redness |
| <b>Inhalation</b>   | : No known significant effects or critical hazards.  |
| <b>Skin contact</b> | : Adverse symptoms may include the following:<br>irritation<br>redness                     |
| <b>Ingestion</b>    | : No known significant effects or critical hazards.  |

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

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|-----------------------------------|---|
| <b>Notes to physician</b>         | : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.   |
| <b>Specific treatments</b>        | : No specific treatment.  |
| <b>Protection of first-aiders</b> | : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. |

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

- |                                       |  |
|---------------------------------------|--|
| <b>Suitable extinguishing media</b>   | : Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam. |
| <b>Unsuitable extinguishing media</b> | : Do not use water jet or water-based fire extinguishers.        |

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|---|--|
| <b>Specific hazards arising from the chemical</b> | : Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. |
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| <b>Hazardous thermal decomposition products</b> | : Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide<br>sulfur oxides<br>metal oxide/oxides |
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| <b>Special protective actions for fire-fighters</b> | : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. |
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|---|---|
| <b>Special protective equipment for fire-fighters</b> | : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
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## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

### Methods and materials for containment and cleaning up

- Spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental



## Section 7. Handling and storage

contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

### Control parameters

#### United States

##### Occupational exposure limits

Ingredient name	Exposure limits
Residues (petroleum), vacuum Solvent naphtha (petroleum), light arom. Solvent naphtha (petroleum), medium aliph.	None. None. <b>OSHA PEL (United States, 6/2016).</b> TWA: 100 ppm 8 hours. TWA: 400 mg/m <sup>3</sup> 8 hours.
Stoddard solvent	<b>ACGIH TLV (United States, 3/2017).</b> TWA: 100 ppm 8 hours. TWA: 525 mg/m <sup>3</sup> 8 hours.
	<b>NIOSH REL (United States, 10/2016).</b> TWA: 350 mg/m <sup>3</sup> 10 hours. CEIL: 1800 mg/m <sup>3</sup> 15 minutes.
Dec-1-ene	<b>OSHA PEL (United States, 6/2016).</b> TWA: 500 ppm 8 hours. TWA: 2900 mg/m <sup>3</sup> 8 hours.
Sulfur	<b>AIHA WEEL (United States, 10/2011).</b> TWA: 100 ppm 8 hours.
Crystalline silica, respirable powder	None. <b>OSHA PEL Z3 (United States, 6/2016).</b> TWA: 250 mppcf / (%SiO <sub>2</sub> +5) 8 hours. Form: Respirable TWA: 10 mg/m <sup>3</sup> / (%SiO <sub>2</sub> +2) 8 hours. Form: Respirable
	<b>NIOSH REL (United States, 10/2016).</b> TWA: 0.05 mg/m <sup>3</sup> 10 hours. Form: Respirable dust
	<b>OSHA PEL (United States, 6/2016).</b> TWA: 50 µg/m <sup>3</sup> 8 hours. Form: Respirable dust
	<b>ACGIH TLV (United States, 3/2017).</b> TWA: 0.025 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction
Aromatic hydrocarbons, C9-11 1-Propanamine, 3-(C9-11-isoalkyloxy) derivs., C10-rich	None. None.

#### Canada

##### Occupational exposure limits

Ingredient name	Exposure limits
Solvent naphtha (petroleum), medium aliph.	<b>CA Quebec Provincial (Canada, 1/2014).</b> TWA <sub>EV</sub> : 400 ppm 8 hours. TWA <sub>EV</sub> : 1590 mg/m <sup>3</sup> 8 hours.
Stoddard solvent	<b>CA Ontario Provincial (Canada, 1/2018).</b> TWA: 525 mg/m <sup>3</sup> 8 hours.
	<b>CA Alberta Provincial (Canada, 4/2009).</b> 8 hrs OEL: 572 mg/m <sup>3</sup> 8 hours. 8 hrs OEL: 100 ppm 8 hours.
	<b>CA British Columbia Provincial (Canada, 6/2017).</b> TWA: 290 mg/m <sup>3</sup> 8 hours. STEL: 580 mg/m <sup>3</sup> 15 minutes.
Dec-1-ene	<b>CA Ontario Provincial (Canada, 1/2018).</b> TWA: 100 ppm 8 hours.
Sulfur	<b>CA Quebec Provincial (Canada, 1/2014).</b> TWA <sub>EV</sub> : 100 ppm 8 hours. TWA <sub>EV</sub> : 525 mg/m <sup>3</sup> 8 hours.
	<b>CA Saskatchewan Provincial (Canada, 7/2013).</b> STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours.
Crystalline silica, respirable powder	<b>AIHA WEEL (United States, 10/2011).</b> TWA: 100 ppm 8 hours. <b>CA Alberta Provincial (Canada, 4/2009).</b> 8 hrs OEL: 10 mg/m <sup>3</sup> 8 hours. <b>CA British Columbia Provincial (Canada, 6/2017).</b> TWA: 0.025 mg/m <sup>3</sup> 8 hours. Form: Respirable





## Section 8. Exposure controls/personal protection

CA Quebec Provincial (Canada, 1/2014).  
TWA<sub>EV</sub>: 0.1 mg/m<sup>3</sup> 8 hours. Form: Respirable dust  
CA Ontario Provincial (Canada, 1/2018).  
TWA: 0.1 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction  
CA Saskatchewan Provincial (Canada, 7/2013).  
TWA: 0.05 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction  
CA Alberta Provincial (Canada, 4/2009).  
8 hrs OEL: 0.025 mg/m<sup>3</sup> 8 hours. Form: Respirable particulate.

- Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.
- Individual protection measures**
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.



## Section 9. Physical and chemical properties

### Appearance

Physical state	: Liquid. [Viscous.]
Color	: Black.
Odor	: Solvent.
Odor threshold	: Not available.
pH	: Not available.
Melting point	: Not available.
Boiling point	: Not available.
Flash point	: Closed cup: >40°C (>104°F)
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: >1 [Air = 1]
Relative density	: 1.35
Solubility	: Insoluble in water.
Partition coefficient: n-octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Not available.
Flow time (ISO 2431)	: Not available.
VOC = Volatile Organic Compound	: 175 g/L

## Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.





## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Solvent naphtha (petroleum), light arom.	LD50 Oral	Rat	8400 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Solvent naphtha (petroleum), light arom.	Eyes - Mild irritant	Rabbit	-	24 hours 100 µl	-
Stoddard solvent	Eyes - Mild irritant	Human	-	100 ppm	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 500 mg	-

#### Sensitization

There is no data available.

#### Mutagenicity

There is no data available.

#### Carcinogenicity

##### Classification

Product/ingredient name	OSHA	IARC	NTP
Residues (petroleum), vacuum	-	2B	-
Crystalline silica, respirable powder	-	1	Known to be a human carcinogen.

#### Reproductive toxicity

There is no data available.

#### Teratogenicity

There is no data available.

#### Specific target organ toxicity (single exposure)

Name	Category	Target organs
Aromatic hydrocarbons, C9-11	Category 3	Narcotic effects

#### Specific target organ toxicity (repeated exposure)

Name	Category	Target organs
Solvent naphtha (petroleum), medium aliph.	Category 1	central nervous system (CNS)
Stoddard solvent	Category 1	central nervous system (CNS)
Crystalline silica, respirable powder	Category 1	respiratory tract

#### Aspiration hazard

Name	Result
Solvent naphtha (petroleum), light arom.	ASPIRATION HAZARD - Category 1
Solvent naphtha (petroleum), medium aliph.	ASPIRATION HAZARD - Category 1
Stoddard solvent	ASPIRATION HAZARD - Category 1
Dec-1-ene	ASPIRATION HAZARD - Category 1
Aromatic hydrocarbons, C9-11	ASPIRATION HAZARD - Category 1

**Information on the likely routes of exposure** : Dermal contact. Eye contact. Inhalation. Ingestion.

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : Causes skin irritation.  
**Ingestion** : No known significant effects or critical hazards.



## Section 11. Toxicological information

### Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness
- Ingestion** : No known significant effects or critical hazards.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

- Potential immediate effects** : No known significant effects or critical hazards.
- Potential delayed effects** : No known significant effects or critical hazards.

#### Long term exposure

- Potential immediate effects** : No known significant effects or critical hazards.
- Potential delayed effects** : No known significant effects or critical hazards.

#### Potential chronic health effects

- General** : Causes damage to organs through prolonged or repeated exposure.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : May cause genetic defects.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Route	ATE value
Oral	40485.8 mg/kg

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Species	Exposure
Sulfur	Acute LC50 >100 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours

### Persistence and degradability

There is no data available.



## Section 12. Ecological information

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Solvent naphtha (petroleum), light arom.	-	10 to 2500	high
Stoddard solvent	3.16 to 7.06	-	high
Dec-1-ene	5.12	3.65	low

### Mobility in soil







Soil/water partition coefficient (K<sub>oc</sub>) : Not available.

Other adverse effects : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

	DOT Classification	TDG Classification	IMDG	IATA
UN number	UN1999	UN1999	UN1999	UN1999
UN proper shipping name	TARS, LIQUID	TARS, LIQUID. Marine pollutant (Dec-1-ene, 1-Propanamine, 3-(C9-11-isoalkyloxy) derivs., C10-rich)	TARS, LIQUID. Marine pollutant (Dec-1-ene, 1-Propanamine, 3-(C9-11-isoalkyloxy) derivs., C10-rich)	TARS, LIQUID
Transport hazard class(es)	3 	3  	3  	3 
Packing group	III	III	III	III
Environmental hazards	No.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.

AERG : 130

DOT-RQ Details : Xylene

100 lbs / 45.4 kg [13.946 gal / 52.791 L]



## Section 14. Transport information

### Additional information

- DOT Classification** : This product may be re-classified as "Combustible Liquid," unless transported by vessel or aircraft. Non-bulk packages (less than or equal to 119 gal) of combustible liquids are not regulated as hazardous materials in package sizes less than the product reportable quantity.  
**Reportable quantity** 13445.4 lbs / 6104.2 kg [1194.5 gal / 4521.6 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.
- TDG Classification** : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3), 2.7 (Marine pollutant mark). The marine pollutant mark is not required when transported by road or rail.
- IMDG** : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.  
**Emergency schedules** F-E, S-E
- IATA** : The environmentally hazardous substance mark may appear if required by other transportation regulations.
- Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

## Section 15. Regulatory information

- U.S. Federal regulations** : **TSCA 8(a) CDR Exempt/Partial exemption:** Not determined  
**United States inventory (TSCA 8b):** All components are listed or exempted.  
**Clean Water Act (CWA) 311:** Xylene

- Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Listed
- Clean Air Act Section 602 Class I Substances** : Not listed
- Clean Air Act Section 602 Class II Substances** : Not listed
- DEA List I Chemicals (Precursor Chemicals)** : Not listed
- DEA List II Chemicals (Essential Chemicals)** : Not listed

### SARA 302/304

#### Composition/information on ingredients

No products were found.

- SARA 304 RQ** : Not applicable.

### SARA 311/312

- Classification** : FLAMMABLE LIQUIDS - Category 3  
 SKIN CORROSION/IRRITATION - Category 2  
 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A  
 GERM CELL MUTAGENICITY - Category 1  
 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous system (CNS), respiratory tract) - Category 1



## Section 15. Regulatory information

### Composition/information on ingredients

Name	Classification
Residues (petroleum), vacuum Solvent naphtha (petroleum), light arom.	CARCINOGENICITY - Category 2 FLAMMABLE LIQUIDS - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A ASPIRATION HAZARD - Category 1
Solvent naphtha (petroleum), medium aliph.	FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous system (CNS)) - Category 1 ASPIRATION HAZARD - Category 1
Stoddard solvent	FLAMMABLE LIQUIDS - Category 3 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A GERM CELL MUTAGENICITY - Category 1B CARCINOGENICITY - Category 1B SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous system (CNS)) - Category 1 ASPIRATION HAZARD - Category 1
Dec-1-ene	FLAMMABLE LIQUIDS - Category 3 ASPIRATION HAZARD - Category 1
Sulfur	FLAMMABLE SOLIDS - Category 2 SKIN CORROSION/IRRITATION - Category 2
Crystalline silica, respirable powder	CARCINOGENICITY - Category 1A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (respiratory tract) (inhalation) - Category 1
Aromatic hydrocarbons, C9-11	FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1
1-Propanamine, 3-(C9-11-isoalkyloxy) derivs., C10-rich	ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION/IRRITATION - Category 1B SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

### SARA 313

There is no data available.

### State regulations

#### Massachusetts

: The following components are listed: Sulfur; Stoddard solvent; Solvent naphtha (petroleum), medium aliph.; Crystalline silica, respirable powder; Limestone

#### New York

: None of the components are listed.

#### New Jersey

: The following components are listed: Sulfur; Stoddard solvent; Crystalline silica, respirable powder; Limestone

#### Pennsylvania

: The following components are listed: Sulfur; Stoddard solvent; Crystalline silica, respirable powder; Limestone

### California Prop. 65

**⚠ WARNING:** This product can expose you to Crystalline silica, respirable powder, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**Since the carcinogenic ingredients in this compound are encapsulated, the risk of exposure by inhalation is minimal when used in accordance with the user documentation.**

### Canada

#### Canadian lists

##### Canadian NPRI

: The following components are listed: Stoddard solvent; Solvent naphtha (petroleum), medium aliph.; Solvent naphtha (petroleum), light arom.

##### CEPA Toxic substances

: None of the components are listed.

##### Canada inventory (DSL NDSL)

: At least one component is not listed in DSL but all such components are listed in NDSL.



## Section 16. Other information

### Procedure used to derive the classification

Classification	Justification
FLAMMABLE LIQUIDS - Category 3	On basis of test data
SKIN CORROSION/IRRITATION - Category 2	Calculation method
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A	Calculation method
GERM CELL MUTAGENICITY - Category 1	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous system (CNS), respiratory tract) - Category 1	Calculation method
AQUATIC HAZARD (ACUTE) - Category 2	Calculation method
AQUATIC HAZARD (LONG-TERM) - Category 2	Calculation method

### History

**Date of issue mm/dd/yyyy** : 11/15/2018  
**Date of previous issue** : Not applicable  
**Version** : 1  
**Prepared by** : KMK Regulatory Services Inc.

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