# SAFETY DATA SHEET

Patch Rubber Company Alexandre Corpert

Fast Dry Self Vulcanizing Cement

### Section 1. Identification

GHS product identifier	: Fast Dry Self Vulcanizing Cement
Other means of identification	: Not available.
Product code	: 16-450; 16-451; 16-450-I; 16-451-I; 16-452; 98-854; 98-855; 15274; 15275; 15276; 15277
Product use	: Adhesive.
Supplier's details	: Patch Rubber Company 100 Patch Rubber Road Weldon, NC 27890 USA T: (252) 536-2574
e-mail address of person responsible for this SDS	: roa-coa@patchrubber.com
Emergency telephone number (with hours of operation)	: CHEMTREC: United States and Canada: 1-800-424-9300 CHEMTREC: Outside United States and Canada: 001-703-527-3887

### Section 2. Hazards identification

This material is considered hazardous by the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200) and Health Canada Hazardous Product Regulations - WHMIS 2015

Classification of the substance or mixture	: FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1
	Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 48.5%
<u>GHS label elements</u> Hazard pictograms	
Signal word	: Danger
Hazard statements	<ul> <li>Highly flammable liquid and vapor. Causes skin irritation. May be fatal if swallowed and enters airways.</li> </ul>

May cause drowsiness or dizziness.

 Precautionary statements

 Prevention

 : Wear protective gloves: > 8 hours (breakthrough time): neoprene, butyl rubber, nitrile rubber. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Wash hands thoroughly after handling.

Date of issue/Date of revision	:11/22/2017	Date of previous issue	:01/15/2016	Version : 1.01	1/16

### Section 2. Hazards identification

Response	: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.
	IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting.
	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
	IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention.
Storage	: Store locked up. Store in a well-ventilated place. Keep cool.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards not other classified	rwise : None known.

### Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of identification	: Not available.
Product code	: 16-450; 16-451; 16-452; 98-854; 98-855; 15274; 15275; 15276; 15277

Ingredient name	%	CAS number
Naphtha (petroleum), hydrotreated light	60-100	64742-49-0
n-Heptane	30-45	142-82-5
3-Methylhexane	0-30	589-34-4
Methylcyclohexane	0-20	108-87-2
2-Methylhexane	0-15	591-76-4
3-Ethylpentane	0 - 5	617-78-7
2,3-Dimethylpentane	0 - 4.723	565-59-3

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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 necess	sary first aid measures
Eye contact	<ul> <li>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 10 minutes. Get medical attention.</li> </ul>
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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 necessary, call a poison center or physician. 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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

## Section 4. First aid measures

Skin contact :	Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion :	Get medical attention immediately. Call a poison center or physician. 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. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. 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

Inhalation       : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.         Skin contact       : Causes skin irritation.         Ingestion       : Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.         Over-exposure signs/symptoms       :         Eye contact       : Adverse symptoms may include the following: pain or irritation watering redness         Inhalation       : Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness         Skin contact       : Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness         Skin contact       : Adverse symptoms may include the following: irritation mediates within redness         Ingestion       : Adverse symptoms may include the following: irritation redness         Ingestion       : Adverse symptoms may include the following: irritation redness         Ingestion       : Adverse symptoms may include the following: irritation redness         Ingestion       : Adverse symptoms may include the following: irritation redness         Ingestion       : Adverse symptoms may include the following: irritation redness         Ingestion       : Adverse symptoms may include the following: irritation redness         Ingestion       : Adverse symptoms may include the following: irritation redness         Ingestion </td <td>Potential acute health effe</td> <td><u>ts</u></td>	Potential acute health effe	<u>ts</u>
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Ingestion       : Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.         Over-exposure signs/symptoms         Eye contact       : Adverse symptoms may include the following: pain or irritation watering redness         Inhalation       : Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness         Skin contact       : Adverse symptoms may include the following: right and the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness         Ingestion       : Adverse symptoms may include the following: right and the following: righ	Inhalation	
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Indication of immediate medical attention and special treatment needed, if necessary         Notes to physician       : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Aspiration hazard if swallowed. Can enter lungs and cause damage.         Specific treatments       : No specific treatment.         Protection of first-aiders       : 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 the person providence person provi	Skin contact	irritation
<ul> <li>Notes to physician</li> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Aspiration hazard if swallowed. Can enter lungs and cause damage.</li> <li>Specific treatments</li> <li>No specific treatment.</li> <li>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 be a subsection of the person providing aid to be a subsection.</li> </ul>	Ingestion	
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	Protection of first-aiders	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

#### See toxicological information (Section 11)

## Section 5. Fire-fighting measures

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Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Highly flammable liquid and vapor. 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. Vapors may form explosive mixtures with air. Runoff to sewer may create fire or explosion hazard. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide smoke fumes or vaporor
Special protective actions for fire-fighters	: 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.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### 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 Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".	in
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.	
Methods and materials for co	ainment and cleaning up	
Small spill	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.	
Large 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.	nt

## Section 7. Handling and storage

Precautions for safe handling			
Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Do not swallow. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. 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. Remove contaminated clothing and protective equipment before entering eating areas. 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 contamination.	

## Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

Ingredient name	<b>Exposure limits</b>
United States Occupational Exposure Limits	
Naphtha (petroleum), hydrotreated light	None.
heptane	ACGIH TLV (United States, 3/2016). TWA: 400 ppm 8 hours. TWA: 1640 mg/m <sup>3</sup> 8 hours. STEL: 500 ppm 15 minutes. STEL: 2050 mg/m <sup>3</sup> 15 minutes. NIOSH REL (United States, 10/2016). TWA: 85 ppm 10 hours. TWA: 350 mg/m <sup>3</sup> 10 hours. CEIL: 440 ppm 15 minutes. CEIL: 1800 mg/m <sup>3</sup> 15 minutes. OSHA PEL (United States, 6/2016). TWA: 500 ppm 8 hours. TWA: 2000 mg/m <sup>3</sup> 8 hours.
3-methylhexane	ACGIH TLV (United States, 3/2016). TWA: 400 ppm 8 hours. TWA: 1640 mg/m <sup>3</sup> 8 hours. STEL: 500 ppm 15 minutes. STEL: 2050 mg/m <sup>3</sup> 15 minutes.
methylcyclohexane	ACGIH TLV (United States, 3/2016). TWA: 400 ppm 8 hours. TWA: 1610 mg/m <sup>3</sup> 8 hours. NIOSH REL (United States, 10/2016). TWA: 400 ppm 10 hours.
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## Section 8. Exposure controls/personal protection

2-methylhexane     CSHA PEL (United States, 5/2016). TWA: 500 pm 8 hours. TWA: 2000 mg/m 8 hours. STEL: 500 pm 15 minutes. STEL: 500 pm 15 minutes.       2.3-dimethylpentane     ACGIH TLV (United States, 3/2016). TWA: 400 pm 8 hours. STEL: 500 pm 15 minutes.       3-ethylpentane     ACGIH TLV (United States, 3/2016). TWA: 400 pm 8 hours. STEL: 500 pm 15 minutes.       3-ethylpentane     ACGIH TLV (United States, 3/2016). TWA: 400 pm 8 hours. STEL: 200 mg/m 15 minutes.       3-ethylpentane     ACGIH TLV (United States, 3/2016). TWA: 400 pm 8 hours. STEL: 200 mg/m 15 minutes.       Canada Occupational Exposure Limits     TWA: 1040 pm 8 hours. STEL: 2050 mg/m 15 minutes.       Deptane     CAlberta Provincial (Canada, 4/2009). 15 min OEL: 2050 mg/m 15 minutes. STEL: 2050 mg/m 15 minutes.       B hs OEL: 400 ppm 8 hours. STEL: 500 pm 15 minutes.     STEL: 500 pm 15 minutes. STEL: 2050 mg/m 15 minutes. STEL: 2050 mg/m 15 minutes.       Alberta Provincial (Canada, 4/2009). 15 min OEL: 200 pm 8 hours. STEL: 500 pm 15 minutes. STEL: 500 pm 15 minutes. STEL: 500 pm 16 minutes. STEL: 400 pm 8 hours.		• •	
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8 hrs OEL: 400 ppm 8 hours. 8 hrs OEL: 1610 mg/m <sup>3</sup> 8 hours. <b>CA British Columbia Provincial (Canada,</b> <b>7/2016).</b> TWA: 400 ppm 8 hours. <b>CA Ontario Provincial (Canada, 7/2015).</b>	3-methylhexane		<ul> <li>15 min OEL: 2050 mg/m<sup>3</sup> 15 minutes.</li> <li>8 hrs OEL: 1640 mg/m<sup>3</sup> 8 hours.</li> <li>8 hrs OEL: 400 ppm 8 hours.</li> <li>15 min OEL: 500 ppm 15 minutes.</li> <li>CA Ontario Provincial (Canada, 7/2015).</li> <li>TWA: 400 ppm 8 hours.</li> </ul>
Date of issue/Date of revision       : 11/22/2017       Date of previous issue       : 01/15/2016       Version       : 1.01       6/	methylcyclohexane		8 hrs OEL: 400 ppm 8 hours. 8 hrs OEL: 1610 mg/m <sup>3</sup> 8 hours. <b>CA British Columbia Provincial (Canada,</b> <b>7/2016).</b> TWA: 400 ppm 8 hours.
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# Section 8. Exposure controls/personal protection

	TWA: 400 ppm 8 hours. <b>CA Quebec Provincial (Canada, 1/2014).</b> TWAEV: 400 ppm 8 hours. TWAEV: 1610 mg/m <sup>3</sup> 8 hours. <b>CA Saskatchewan Provincial (Canada,</b> <b>7/2013).</b> STEL: 500 ppm 15 minutes. TWA: 400 ppm 8 hours.
2-methylhexane	CA Alberta Provincial (Canada, 4/2009). 15 min OEL: 2050 mg/m <sup>3</sup> 15 minutes. 8 hrs OEL: 1640 mg/m <sup>3</sup> 8 hours. 8 hrs OEL: 400 ppm 8 hours. 15 min OEL: 500 ppm 15 minutes. CA Ontario Provincial (Canada, 7/2015). TWA: 400 ppm 8 hours. STEL: 500 ppm 15 minutes.
2,3-dimethylpentane	<ul> <li>CA Alberta Provincial (Canada, 4/2009).</li> <li>15 min OEL: 2050 mg/m<sup>3</sup> 15 minutes.</li> <li>8 hrs OEL: 1640 mg/m<sup>3</sup> 8 hours.</li> <li>8 hrs OEL: 400 ppm 8 hours.</li> <li>15 min OEL: 500 ppm 15 minutes.</li> <li>CA Ontario Provincial (Canada, 7/2015).</li> <li>TWA: 400 ppm 8 hours.</li> <li>STEL: 500 ppm 15 minutes.</li> </ul>
3-ethylpentane	CA Alberta Provincial (Canada, 4/2009). 15 min OEL: 2050 mg/m <sup>3</sup> 15 minutes. 8 hrs OEL: 1640 mg/m <sup>3</sup> 8 hours. 8 hrs OEL: 400 ppm 8 hours. 15 min OEL: 500 ppm 15 minutes. CA Ontario Provincial (Canada, 7/2015). TWA: 400 ppm 8 hours. STEL: 500 ppm 15 minutes.

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. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
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.

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## Section 8. Exposure controls/personal protection

-	
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.
	> 8 hours (breakthrough time): neoprene, butyl rubber, nitrile rubber
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 antistatic 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	: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Ensure an MSHA/NIOSH-approved respirator or equivalent is used (applicable in United States).

## Section 9. Physical and chemical properties

Appearance	
Physical state	: Liquid.
Color	: Milky white
Odor	: Hydrocarbon.
Odor threshold	: Not available.
рН	: Not available.
Melting point	: Not available.
Boiling point	: 93.33°C (200°F)
Flash point	: Closed cup: -9.44°C (15°F)
Evaporation rate	: 4.2 (butyl acetate = 1)
Flammability (solid, gas)	: Not available.
Lower and upper explosive	: Lower: 1%
(flammable) limits	Upper: 6.7%
Vapor pressure	: 6 kPa (45 mm Hg) [room temperature]
Vapor density	: 3.5 [Air = 1]
Relative density	: 0.708 [Water = 1]
Solubility	: Not available.
Solubility in water	: Not available.
Partition coefficient: n- octanol/water	: Not available.
Auto-ignition temperature	: 203.8°C (398.8°F)
<b>Decomposition temperature</b>	: Not available.
Viscosity	: Dynamic (room temperature): 50 to 150 mPa⋅s (50 to 150 cP)
Aerosol product	

## 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. Under normal conditions of storage and use, hazardous polymerization 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 strong acids
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
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Product/ingredient name	Result	Species	Dose	Exposure
n-Heptane	LC50 Inhalation Gas.	Rat	48000 ppm	4 hours
	LC50 Inhalation Vapor	Rat	103 g/m³	4 hours
Methylcyclohexane	LD50 Oral	Rat	>3200 mg/kg	-

#### **Conclusion/Summary** : Based on available data, the classification criteria are not met. Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Naphtha (petroleum), hydrotreated light	Skin - Irritant	Rabbit	-	4 hours	-
n-Heptane	Skin - Moderate irritant	Rabbit	-	24 hours	-
3-methylhexane	Skin - Moderate irritant	Rabbit	-	-	-
Methylcyclohexane	Skin - Mild irritant	Rabbit	-	24 hours 500 microliters	-
	Skin - Moderate irritant	Rabbit	-	-	-
2-Methylhexane	Skin - Moderate irritant	Rabbit	-	-	-
3-Ethylpentane	Skin - Moderate irritant	Rabbit	-	-	-
2,3-Dimethylpentane	Skin - Moderate irritant	Rabbit	-	-	-

<b>Conclusion/Summary</b>							
Skin	: Causes	skin irritation.					
Eyes	: Causes	serious eye irrit	ation.				
Sensitization							
<b>Conclusion/Summary</b>	: Not avail	lable.					
Mutagenicity							
Conclusion/Summary	: Not available	Э.					
Carcinogenicity							
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### Section 11. Toxicological information

Conclusion/Summary	: Not available.			
Reproductive toxicity				
Conclusion/Summary	: Not available.			
<b>Teratogenicity</b>				
Conclusion/Summary	: Not available.			
Specific target organ toxicity (single exposure)				

Name	Category	Route of exposure	Target organs
n-Heptane	Category 3	Not applicable.	Narcotic effects
3-methylhexane	Category 3	Not applicable.	Narcotic effects
Methylcyclohexane	Category 3	Not applicable.	Narcotic effects
2-Methylhexane	Category 3	Not applicable.	Narcotic effects
3-Ethylpentane	Category 3	Not applicable.	Narcotic effects
2,3-Dimethylpentane	Category 3	Not applicable.	Narcotic effects

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

#### Not available.

#### **Aspiration hazard**

Name	Result
Naphtha (petroleum), hydrotreated light	ASPIRATION HAZARD - Category 1
n-Heptane	ASPIRATION HAZARD - Category 1
3-methylhexane	ASPIRATION HAZARD - Category 1
Methylcyclohexane	ASPIRATION HAZARD - Category 1
2-Methylhexane	ASPIRATION HAZARD - Category 1
3-Ethylpentane	ASPIRATION HAZARD - Category 1
2,3-Dimethylpentane	ASPIRATION HAZARD - Category 1

#### Information on the likely : Routes of entry anticipated: Oral, Dermal, Inhalation. routes of exposure Potential acute health effects **Eye contact** : May cause eye irritation. Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. **Skin contact** : Causes skin irritation. Ingestion : Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways. Symptoms related to the physical, chemical and toxicological characteristics **Eye contact** : Adverse symptoms may include the following: pain or irritation

## Section 11. Toxicological information

Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: Adverse symptoms may include the following: nausea or vomiting

Delayed and immediate effect	ts and also chronic effects from short and long term exposure
Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Repeated or prolonged contact with irritants may cause dermatitis.
Potential chronic health eff	<u>ects</u>
Not available.	
<b>Conclusion/Summary</b>	: Not available.
General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

#### Numerical measures of toxicity

Acute toxicity estimates

Not available.

### Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure
n-Heptane	Acute LC50 375000 µg/l Fresh water	Fish - Oreochromis mossambicus	96 hours
Methylcyclohexane	Acute LC50 5800 µg/l Marine water	Fish - Morone saxatilis - Juvenile (Fledgling, Hatchling, Weanling)	96 hours

# Persistence and degradabilityConclusion/Summary: Not

: Not available.

#### **Bioaccumulative potential**

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## Section 12. Ecological information

	0		
Product/ingredient name	LogPow	BCF	Potential
Naphtha (petroleum), hydrotreated light	2.2 to 5.2	10 to 2500	high
n-Heptane	4.66	552	high
Methylcyclohexane	3.61	112	low

Mobility in soil		
Soil/water partition coefficient (K <sub>oc</sub> )	: Not available.	
Mobility	: 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 at all times comply with the requirements of environmental protection and waste disposal legislation and any federal, state and 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 emptied 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
	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	Mexico Classification	ADR/RID	IMDG	IATA
UN number	UN1133	UN1133	-	-	UN1133	UN1133
UN proper shipping name	Adhesives	ADHESIVES	-	-	ADHESIVES	Adhesives
Transport hazard class(es)	3	3	-	-	3	3
Label						
	1					
Packing group	11	11	-	-	Ш	II
Environmental hazards	Yes.	No.	-	-	Marine Pollutant: Yes	No.

**Additional information** 

## Section 14. Transport information

DOT Classification	:	This product is not regulated as a marine pollutant when transported on inland waterways in sizes of $\leq 5$ L or $\leq 5$ kg or by road, rail, or inland air in non-bulk sizes, provided the packagings meet the general provisions of §§ 173.24 and 173.24a.
		<u>Limited quantity</u> Yes.
		Packaging instruction Passenger aircraft Quantity limitation: 5 L
		Cargo aircraft Quantity limitation: 60 L
		<u>Special provisions</u> 149, B52, IB2, T4, TP1, TP8
TDG Classification	:	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3).
		Explosive Limit and Limited Quantity Index 5
		Passenger Carrying Road or Rail Index 5
IMDG	:	The marine pollutant mark is not required when transported in sizes of $\leq$ 5 L or $\leq$ 5 kg.
		<u>Emergency schedules (EmS)</u> F-E, S-D
ΙΑΤΑ	:	The environmentally hazardous substance mark may appear if required by other transportation regulations. Passenger and Cargo Aircraft Quantity limitation: 5 L Packaging instructions: 353
		Cargo Aircraft Only uantity limitation: 60 L Packaging instructions: 364 Limited Quantities - Passenger Aircraft Quantity limitation: 1 L Packaging instructions: Y341
		Special provisions A3
Special precautions for user	:	<b>Transport within user's premises:</b> 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.
Fransport in bulk according to Annex II of MARPOL and the IBC Code	:	Not available.

## Section 15. Regulatory information

U.S. Federal regulations	: TSCA 8(a) F	PAIR: methylcyclohexan	e; heptane		
	TSCA 8(a) (	ined			
	Clean Wate (dibutyldithio	zene; (dibutylamine)bis			
	Clean Wate	er Act (CWA) 311: toluer	ne; ethylbenzene; ben	zene	
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Listed				
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### Section 15. Regulatory information

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.
<u>SARA 311/312</u>	
Classification	: FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1

#### **Composition/information on ingredients**

No products were found.

#### **SARA 313**

	Product name	CAS number	%
Form R - Reporting requirements	(dibutylamine)bis(dibutyldithiocarbamato-S,S')zinc	35884-05-0	≤10
Supplier notification	(dibutylamine)bis(dibutyldithiocarbamato-S,S')zinc	35884-05-0	≤10

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

#### State regulations

Massachusetts	: The following components are listed: ISOHEPTANE; METHYLCYCLOHEXANE; 3-METHYLHEXANE; HEPTANE; N-HEPTANE; 2,3-DIMETHYLPENTANE
New York	: None of the components are listed.
New Jersey	: The following components are listed: METHYLCYCLOHEXANE; CYCLOHEXANE, METHYL-; 3-METHYLHEXANE; HEXANE, 3-METHYL-; n-HEPTANE; HEPTANE; 2, 3-DIMETHYLPENTANE; PENTANE, 2,3-DIMETHYL-; ZINC compounds
Pennsylvania	: The following components are listed: HEXANE, 2-METHYL-; CYCLOHEXANE, METHYL-; HEXANE, 3-METHYL-; HEPTANE; PENTANE, 2,3-DIMETHYL-; ZINC COMPOUNDS
Opliferation Desarrow CE	

#### California Prop. 65

WARNING: This product can expose you to Benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. This product can expose you to chemicals including ethylbenzene, which is known to the State of California to cause cancer, and toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Ingredient name	<b>.</b>	Maximum acceptable dosage level
toluene ethylbenzene benzene	- - -	-

### Section 15. Regulatory information

	······································
Canadian lists	
Canadian NPRI	<ul> <li>The following components are listed: Heptane (all isomers); Heptane (all isomers); Heptane (all isomers); Heptane (all isomers); Heptane (all isomers); Zinc (and its compounds)</li> </ul>
CEPA Toxic substances	: None of the components are listed.
International regulations	
Chemical Weapon Conven Not listed.	ntion List Schedules I, II & III Chemicals
Montreal Protocol (Annexe Not listed.	<u>es A, B, C, E)</u>
Stockholm Convention on Not listed.	Persistent Organic Pollutants
Rotterdam Convention on Not listed.	Prior Informed Consent (PIC)
UNECE Aarhus Protocol o Not listed.	n POPs and Heavy Metals
Inventory list	
Australia	: All components are listed or exempted.
Canada	: At least one component is not listed in DSL but all such components are listed in NDSL.
China	: All components are listed or exempted.
New Zealand	: All components are listed or exempted.
Republic of Korea	: All components are listed or exempted.
Taiwan	: All components are listed or exempted.
United States	: All components are listed or exempted.

### Section 16. Other information

National Fire Protection Association (U.S.A.)

Health 2 0 Instability/Reactivity Special

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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

#### Procedure used to derive the classification

FLAMMABLE LIQUIDS - Category 2       On basis of test data         SKIN CORROSION/IRRITATION - Category 2       Calculation method         SPECIFIC TARGET OPGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -       Calculation method	Classification Justifie	cation
Category 3 ASPIRATION HAZARD - Category 1 Expert judgment	ION/IRRITATION - Category 2 GET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Calculation method	od od

<u>History</u>

## Section 16. Other information

Date of printing	: 11/22/2017
Date of issue/Date of revision	: 11/22/2017
Date of previous issue	: 01/15/2016
Version	: 1.01
Key to abbreviations	<ul> <li>ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor DOT = Department of Transportation GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail TDG = Transportation of Dangerous Goods UN = United Nations</li> </ul>
References	: Not available.

Indicates information that has changed from previously issued version.

#### Notice to reader

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.