

SAFETY DATA SHEET

Kerosene

Section 1. Identification		
GHS product identifier	: Kerosene	
Trade name	: Not available.	
Other means of identification	: Paraffin oil, Kerosine, Jet fuel, Lamp oil	
Product code	: 0650	
Product type	: Liquid.	
Identified uses	: Cooking and lighting fuel.	
Supplier's details	: Nemco Resources Ltd 25 Midland Street Winnipeg, Manitoba R3E 3J6 PH 204.788.1030 FX 204.788.1593 TF 855.755.6737 EM info@nemco.ca WEB www.nemco.ca	
Emergency telephone number (with hours of operation)	 Nemco (Restriction - Business Hours): Mon-Fri 8am-4:30pm 204-788-1030 or Toll free 1-855-755-6737. After hours: http://nemco.ca/msds-safety-information/ CANUTEC (Restriction - Transportation of DG emergencies only): *666(cellular) or 1-888-226-8832 (24/7) 	

Section 2. Hazard identification

Classification of the substance or mixture	 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION (Unborn child) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (ACUTE) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 3
GHS label elements	
Hazard pictograms	
Signal word	: Danger

www.nemco.ca	1-855-755-6737	Code: 0650	1/14
Date of issue	12/30/2020	Date of previous issue : 09/15/2016	Version : 2

Section 2. Hazard identification

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Hazard statements	 H226 - Flammable liquid and vapor. H304 - May be fatal if swallowed and enters airways. H315 - Causes skin irritation. H319 - Causes serious eye irritation. H351 - Suspected of causing cancer. H361d - Suspected of damaging the unborn child. H373 - May cause damage to organs through prolonged or repeated exposure. (hearing organs) H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements	
Prevention	 P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves, protective clothing and eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P273 - Avoid release to the environment. P260 - Do not breathe vapor. P264 - Wash thoroughly after handling.
Response	 P308 + P313 - IF exposed or concerned: Get medical advice or attention. P301 + P310, P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P302 + P352 - IF ON SKIN: Wash with plenty of water. P332 + P313 - If skin irritation occurs: Get medical advice or attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
Storage	: P405 - Store locked up.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Section 3. Composition/information on ingredients

Substance/mixture
Other means of
identification

: Mixture

: Paraffin oil, Kerosine, Jet fuel, Lamp oil

Ingredient name	% (w/w)	CAS number
Kerosine (Petroleum), Hydrodesulfurized	80 - 100	64742-81-0
Kerosine (Petroleum)	80 - 100	8008-20-6
Kerosine (petroleum), sweetened	80 - 100	91770-15-9
Kerosine (fischer - tropsch), full range, c8-16 -branched and linear	30 - 60	848301-66-6
Xylene	1 - 5	1330-20-7
Ethylbenzene	1 - 5	100-41-4
Naphthalene	0.1 - 1	91-20-3
Cumene	0.1 - 1	98-82-8
Trimethylbenzene	0.1 - 1	25551-13-7
2-(2-Methoxyethoxy)ethanol	0.1 - 1	111-77-3

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.

www.nemco.ca	1-855-755-6737	Code:	0650		2/14
Date of issue	: 12/30/2020	Date of prev	ious issue : 09/15/2016	Version : 2	



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. Continue to rinse for at least 20 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

Potential acute	health effects	
Eye contact	:	Causes serious eye irritation.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	Causes skin irritation.
Ingestion	:	May be fatal if swallowed and enters airways.
<u>Over-exposure</u>	signs/symptom	<u>ns</u>
Eye contact	:	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	:	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	:	Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	:	Adverse symptoms may include the following: nausea or vomiting reduced fetal weight increase in fetal deaths skeletal malformations
www.nemco.ca	1-855-755-	-6737 Code: 0650
Date of issue	: 12/30/2020	Date of previous issue : 09/15/2016 Version : 2

3/14

Section 4. First-aid measures

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. 	
Specific treatments	: No specific treatment.	
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.	

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: 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 harmful 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.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
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 in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".	

www.nemco.ca	1-855-755-6737	Code: 0650	4/14
Date of issue	12/30/2020	Date of previous issue : 09/15/2016	Version : 2



Section 6. Accidental release measures

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 containment and cleaning up

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. Avoid exposure during pregnancy. 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 swallow. 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. Remove contaminated clothing and protective equipment before entering eating areas.
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. See Section 10 for incompatible materials before handling or use.

Date of previous issue : 09/15/2016

5/14



Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Kerosine (Petroleum), Hydrodesulfurized	CA British Columbia Provincial (Canada, 5/2019). Absorbed
	through skin.
	TWA: 200 mg/m³, (as total hydrocarbon vapor) 8 hours. CA Alberta Provincial (Canada, 6/2018). Absorbed through skin.
	8 hrs OEL: 200 mg/m ³ , (as total hydrocarbon vapor) 8 hours.
	CA Ontario Provincial (Canada, 1/2018). Absorbed through skin.
	TWA: 200 mg/m ³ 8 hours.
	CA Saskatchewan Provincial (Canada, 7/2013). Absorbed through
	skin.
	STEL: 250 mg/m³, (measured as total hydrocarbon vapor) 15 minuter TWA: 200 mg/m³, (measured as total hydrocarbon vapor) 8 hours.
Kerosine (Petroleum)	CA British Columbia Provincial (Canada, 5/2019). Absorbed
	through skin.
	TWA: 200 mg/m ³ , (as total hydrocarbon vapour) 8 hours. CA Ontario Provincial (Canada, 1/2018). Absorbed through skin.
	TWA: 200 mg/m ³ 8 hours.
	CA Alberta Provincial (Canada, 6/2018). Absorbed through skin.
	8 hrs OEL: 200 mg/m³, (as total hydrocarbon vapour) 8 hours.
	CA Saskatchewan Provincial (Canada, 7/2013). Absorbed through
	skin.
	STEL: 250 mg/m ³ , (measured as total hydrocarbon vapour) 15
	minutes. TWA: 200 mg/m³, (measured as total hydrocarbon vapour) 8 hours.
(vlene	CA Alberta Provincial (Canada, 6/2018).
	8 hrs OEL: 100 ppm 8 hours.
	15 min OEL: 651 mg/m ³ 15 minutes.
	15 min OEL: 150 ppm 15 minutes.
	8 hrs OEL: 434 mg/m ³ 8 hours.
	CA British Columbia Provincial (Canada, 5/2019).
	TWA: 100 ppm 8 hours. STEL: 150 ppm 15 minutes.
	CA Quebec Provincial (Canada, 1/2014).
	TWAEV: 100 ppm 8 hours.
	TWAEV: 434 mg/m ³ 8 hours.
	STEV: 150 ppm 15 minutes.
	STEV: 651 mg/m ³ 15 minutes.
	CA Ontario Provincial (Canada, 1/2018).
	STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.
	CA Saskatchewan Provincial (Canada, 7/2013).
	STEL: 150 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
Ethylbenzene	CA Alberta Provincial (Canada, 6/2018).
	8 hrs OEL: 100 ppm 8 hours.
	8 hrs OEL: 434 mg/m ³ 8 hours.
	15 min OEL: 543 mg/m ³ 15 minutes.
	15 min OEL: 125 ppm 15 minutes.
	CA British Columbia Provincial (Canada, 5/2019). TWA: 20 ppm 8 hours.
	CA Ontario Provincial (Canada, 1/2018).
	TWA: 20 ppm 8 hours.
	CA Quebec Provincial (Canada, 1/2014).
	TWAEV: 100 ppm 8 hours.
	TWAEV: 434 mg/m ³ 8 hours.
	STEV: 125 ppm 15 minutes. STEV: 543 mg/m ³ 15 minutes.
	CA Saskatchewan Provincial (Canada, 7/2013).
	STEL: 125 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
Vaphthalene	CA Alberta Provincial (Canada, 6/2018). Absorbed through skin.
	15 min OEL: 15 ppm 15 minutes.
	8 hrs OEL: 10 ppm 8 hours.
	8 hrs OEL: 52 mg/m ³ 8 hours.
	15 min OEL: 79 mg/m ³ 15 minutes.
vw.nemco.ca 1-855-755-6737	Code: 0650 6/1

Section 8. Exposure controls/personal protection

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		CA British Columbia Provincial (Canada, 5/2019). Absorbed through skin. TWA: 10 ppm 8 hours. CA Ontario Provincial (Canada, 1/2018). Absorbed through skin. TWA: 10 ppm 8 hours. CA Quebec Provincial (Canada, 1/2014). TWAEV: 10 ppm 8 hours. TWAEV: 52 mg/m ³ 8 hours. STEV: 15 ppm 15 minutes. STEV: 79 mg/m ³ 15 minutes. CA Saskatchewan Provincial (Canada, 7/2013). Absorbed through skin. STEL: 15 ppm 15 minutes. TWA: 10 ppm 8 hours.
Cumene		CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 50 ppm 8 hours. 8 hrs OEL: 246 mg/m ³ 8 hours. CA British Columbia Provincial (Canada, 5/2019). TWA: 25 ppm 8 hours. STEL: 75 ppm 15 minutes. CA Ontario Provincial (Canada, 1/2018). TWA: 50 ppm 8 hours. CA Quebec Provincial (Canada, 1/2014). TWAEV: 50 ppm 8 hours. TWAEV: 246 mg/m ³ 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 74 ppm 15 minutes. TWA: 50 ppm 8 hours. CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 123 mg/m ³ 8 hours. CA British Columbia Provincial (Canada, 5/2019). TWA: 25 ppm 8 hours. CA Quebec Provincial (Canada, 1/2014). TWAEV: 25 ppm 8 hours. CA Guebec Provincial (Canada, 1/2014). TWAEV: 25 ppm 8 hours. CA Ontario Provincial (Canada, 1/2018). TWA: 25 ppm 8 hours. CA Ontario Provincial (Canada, 7/2013). STEL: 30 ppm 15 minutes. TWA: 25 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 30 ppm 15 minutes. TWA: 25 ppm 8 hours.
Appropriate engineering : controls	ventilation or other engineer contaminants below any re	ntilation. Use process enclosures, local exhaust ering controls to keep worker exposure to airborne ecommended or statutory limits. The engineering controls for or dust concentrations below any lower explosive f ventilation equipment.
Environmental exposure : controls		or work process equipment should be checked to ensure rements of environmental protection legislation.
Individual protection measures		
Hygiene measures :	eating, smoking and using Appropriate techniques sho	I face thoroughly after handling chemical products, before the lavatory and at the end of the working period. ould be used to remove potentially contaminated clothing. ng before reusing. Ensure that eyewash stations and 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

NEMCO

www.nemco.ca	1-855-755-6737	Code: 0650	7/14
Date of issue	: 12/30/2020	Date of previous issue : 09/15/2016 Version	ı:2



Section 8. Exposure controls/personal protection

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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

<u>A lo b culturi co</u>	
Physical state	: Liquid.
Color	: Undyed.
Odor	: Hydrocarbon.
Odor threshold	: Not available.
рН	: Not available.
Freezing point	: Not available.
Boiling point/boiling range	: 150 to 290°C (302 to 554°F)
Flash point	: Closed cup: 38 to 62°C (100.4 to 143.6°F)
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Lower: 1% Upper: 6%
Vapor pressure	: 1 to 3.7 kPa (38.0°C / 100.4°F) 1.6 - 7 kPa (50.0°C / 122.0°F)
Vapor density	: >5 [Air = 1]
Relative density	: 0.81
Solubility	: Negligible in water.
Partition coefficient: n- octanol/water	: 2 to 10
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Kinematic (40°C (104°F)): 1 to 2.5 cSt
Flow time (ISO 2431)	: Not available.



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. In certain circumstances product can ignite due to static electricity.
Incompatible materials	: Reactive or incompatible with the following materials: strong oxidizers.
Hazardous decomposition products	 Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids and gases including carbon monoxide, carbon dioxide, sulphur oxides and unidentified organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Kerosine (Petroleum), Hydrodesulfurized	LD50 Oral	Rat	>5000 mg/kg	-
Kerosine (Petroleum)	LD50 Oral	Rat	15 g/kg	-
Xylene	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
Ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
Naphthalene	LD50 Dermal	Rabbit	>20 g/kg	-
•	LD50 Oral	Rat	490 mg/kg	-
Cumene	LC50 Inhalation Vapor	Rat	39000 mg/m ³	4 hours
	LD50 Oral	Rat	1400 mg/kg	-
Trimethylbenzene	LD50 Oral	Rat	8970 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Kerosine (Petroleum), Hydrodesulfurized	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Kerosine (Petroleum)	Skin - Moderate irritant	Rabbit	-	0.5 ml	-
, , , , , , , , , , , , , , , , , , ,	Skin - Moderate irritant	Rabbit	-	24 hours 100 %	-
	Skin - Severe irritant	Rabbit	-	500 mg	-
Xylene	Eyes - Mild irritant	Rabbit	-	87 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5 mg	-
	Skin - Mild irritant	Rat	-	8 hours 60 µL	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Moderate irritant	Rabbit	-	100 %	-
Ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 15 mg	-
Naphthalene	Skin - Mild irritant	Rabbit	-	495 mg	-
Cumene	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Eyes - Mild irritant	Rabbit	-	86 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 10 mg	-
Trimethylbenzene	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-

Sensitization

www.nemco.ca	1-855-755-6737	Code : 0650	9/14
Date of issue	: 12/30/2020	Date of previous issue : 09/15/2016 Versio	n : 2



Section 11. Toxicological information

There is no data available.

Mutagenicity

There is no data available.

Carcinogenicity

Classification

Product/ingredient name	OSHA	IARC	NTP
Kerosine (Petroleum)	-	3	-
Xylene	-	3	-
Ethylbenzene	-	2B	-
Naphthalene	-	2B	Reasonably anticipated to be a human carcinogen.
Cumene	-	2B	Reasonably anticipated 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
Cumene	Category 3	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name	Category	Target organs
Ethylbenzene	Category 2	hearing organs

Aspiration hazard

Name	Result
Kerosine (Petroleum), Hydrodesulfurized	ASPIRATION HAZARD - Category 1
Kerosine (Petroleum)	ASPIRATION HAZARD - Category 1
Kerosine (petroleum), sweetened	ASPIRATION HAZARD - Category 1
Kerosine (fischer - tropsch), full range, c8-16 -branched and linear	ASPIRATION HAZARD - Category 1
Ethylbenzene	ASPIRATION HAZARD - Category 1
Cumene	ASPIRATION HAZARD - Category 1

Information on the likely : Dermal contact. Eye contact. Inhalation. Ingestion.

routes of exposure

Potential acute health effects

Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation.
Ingestion	: May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact			
Inhalation	reduced increase	e symptoms may include the following: I fetal weight e in fetal deaths malformations	
www.nemco.ca	1-855-755-6737	Code: 0650	10/14
Date of issue	12/30/2020	Date of previous issue : 09/15/2016	Version : 2



Section 11. Toxicological information

Skin contact	: Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: nausea or vomiting reduced fetal weight increase in fetal deaths skeletal malformations

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

<u>Short term exposure</u>	
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 eff	<u>cts</u>
General	: May cause damage to organs through prolonged or repeated exposure.
Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: Suspected of damaging the unborn child.
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
	88385.61 mg/kg
Dermal	130955 mg/kg
Inhalation (gases)	892875 ppm
Inhalation (vapors)	1964.32 mg/L

www.nemco.ca	1-855-755-6737	Code: 0650	11/14
Date of issue	: 12/30/2020	Date of previous issue : 09/15/2016	Version : 2



Section 12. Ecological information

<u>Toxicity</u>

Product/ingredient name	Result	Species	Exposure
Ethylbenzene	Acute LC50 13.3 mg/L Marine water	Crustaceans - Artemia sp Nauplii	48 hours
	Acute LC50 13.9 mg/L Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
Naphthalene	Acute EC50 1.6 mg/L Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 2350 µg/L Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 213 µg/L Fresh water	Fish - Melanotaenia fluviatilis - Larvae	96 hours
	Chronic NOEC 0.5 mg/L Marine water	Crustaceans - Uca pugnax - Adult	3 weeks
	Chronic NOEC 1.5 mg/L Fresh water	Fish - Oreochromis mossambicus	60 days
Cumene	Acute EC50 2600 µg/L Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 7.4 mg/L Marine water	Crustaceans - Artemia sp Nauplii	48 hours
	Acute EC50 10.6 mg/L Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 2700 µg/L Fresh water	Fish - Oncorhynchus mykiss	96 hours
2-(2-Methoxyethoxy)ethanol	Acute EC50 >930 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 7500000 μg/L Fresh water	Fish - Lepomis macrochirus	96 hours

Persistence and degradability

There is no data available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Kerosene	2 to 10	-	high
Kerosine (fischer - tropsch), full	>6.5	-	high
range, c8-16 -branched and linear			-
Xylene	3.12	8.1 to 25.9	low
Ethylbenzene	3.6	-	low
Naphthalene	3.4	36.5 to 168	low
Cumene	3.55	35.48	low
Trimethylbenzene	3.4 to 3.8	-	low
2-(2-Methoxyethoxy)ethanol	-0.47	-	low

Mobility in soil

Soil/water partition coefficient (Koc) : 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.

www.nemco.ca	1-855-755-6737	Code: 0650	12/14
Date of issue 3	12/30/2020	Date of previous issue : 09/15/2016	Version : 2



Section 14. Transport information

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	TDG Classification		IMDG	ΙΑΤΑ
UN number	UN1223		UN1223	UN1223
UN proper shipping name	KEROSENE		KEROSENE	KEROSENE
Transport hazard class(es)	3		3	3
Packing group	Ш		Ш	
Environmental hazards	No.		No.	No.
		ns: 2.18-2.19 (Class 3).	f the Transportation of Dangerous	
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

Canadian lists	
Canada inventory (DSL NDSL)	: Not determined.
Canadian NPRI	: The following components are listed: Xylene; Ethylbenzene; Naphthalene; Cumene; Trimethylbenzene
CEPA Toxic substances	: The following components are listed: Naphthalene

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
CARCINOGENICITY - Category 2	Calculation method
TOXIC TO REPRODUCTION (Unborn child) - Category 2	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) -	Calculation method
Category 2	
ASPIRATION HAZARD - Category 1	Expert judgment
AQUATIC HAZARD (ACUTE) - Category 3	Calculation method
AQUATIC HAZARD (LONG-TERM) - Category 3	Calculation method

<u>History</u>

Date of issue : 12/30/2020

www.nemco.ca	1-855-755-6737	Code: 0650	13/14
Date of issue	: 12/30/2020	Date of previous issue : 09/15/2016 Version : 2	



Section 16. Other information

Date of previous issue	: 09/15/2016
Version	: 2
Prepared by	: KMK Regulatory Services Inc.
Key to abbreviations	 ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = 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) UN = United Nations HPR = Hazardous Products Regulations

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. 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.

www.nemco.ca	1-855-755-6737	Code: 0650	14/14
Date of issue	: 12/30/2020	Date of previous issue : 09/15/2016	Version : 2