

SAFETY DATA SHEET

10158

Section 1. Identification

Product name	: Lucas Oil Products Inc. ® Non-Chlorinated Brake Parts Cleaner
Product code	: 10158
Other means of identification	: Federal Brake Parts Cleaner (no VOC Limit)
Product type	: Aerosol.
Relevant identified use	es of the substance or mixture and uses advised against
Not applicable.	

Manufacturer

: Lucas Oil Products Inc.

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 AEROSOLS - Category 1 GASES UNDER PRESSURE - Compressed gas SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1
	Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 77.5% Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 77.5% Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 100%
GHS label elements	
Hazard pictograms	

Signal word

: Danger

: 3/7/2017

Section 2. Hazards identification

Hazard statements	 Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes serious eye irritation. Causes skin irritation. May be fatal if swallowed and enters airways. May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure.
Precautionary statements General	: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
Prevention	 Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Use only outdoors or in a well-ventilated area. Do not breathe dust or mist. Wash hands thoroughly after handling. Pressurized container: Do not pierce or burn, even after use.
Response	: Get medical attention if you feel unwell. 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: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Storage	 Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.
	Please refer to the SDS for additional information. Keep out of reach of children. Keep upright in a cool, dry place. Do not discard empty can in trash compactor.
Hazards not otherwise classified	: None known.

Section 3. Composition/information on ingredients

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

CAS number/other identifiers

Ingredient name	% by weight	CAS number
Light Aliphatic Hydrocarbon Solvent	67.05	64742-49-0
2-Propanol	22.5	67-63-0
Lt. Aliphatic Hydrocarbon Solvent	3.72	64742-89-8
Methyl Cyclohexane	3.72	108-87-2
Carbon Dioxide	3	124-38-9

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 and hence require reporting in this section.

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

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Section 4. First aid measures

Description of necessa	ary 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 10 minutes. Get medical attention.
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.
Skin contact	: Flush contaminated skin with plenty of 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

Potential acute health eff	ects
Eye contact	: Causes serious eye irritation.
Inhalation	 Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
Skin contact	: Causes skin irritation.
Ingestion	: Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.
Over-exposure signs/sym	nptoms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing 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

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

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Section 4. First aid measures

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. 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.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: Extremely flammable aerosol. 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. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed.
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, protec	tiv	e 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. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. 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).

Methods and materials for containment and cleaning up

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Section 6. Accidental release measures

Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry 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.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	Put on appropriate personal protective equipment (see Section 8). Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not breathe vapor or mist. Do not swallow. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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. Empty containers retain product residue and can be hazardous.
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 away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Protect from sunlight. Store locked up. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits (OSHA United States)

Ingredient name	Exposure limits
Light Aliphatic Hydrocarbon Solvent 2-Propanol	None. ACGIH TLV (United States, 3/2016). TWA: 200 ppm 8 hours. STEL: 400 ppm 15 minutes. NIOSH REL (United States, 10/2016). TWA: 400 ppm 10 hours. TWA: 980 mg/m ³ 10 hours. STEL: 500 ppm 15 minutes. STEL: 1225 mg/m ³ 15 minutes. OSHA PEL (United States, 6/2016). TWA: 400 ppm 8 hours. TWA: 980 mg/m ³ 8 hours.
Lt. Aliphatic Hydrocarbon Solvent Methyl Cyclohexane	None. ACGIH TLV (United States, 3/2016). TWA: 400 ppm 8 hours. TWA: 1610 mg/m ³ 8 hours.
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Section 8. Exposure controls/personal protection

	NIOSH REL (United States, 10/2016).
	TWA: 400 ppm 10 hours.
	TWA: 1600 mg/m ³ 10 hours.
	OSHA PEL (United States, 6/2016).
	TWA: 500 ppm 8 hours.
	TWA: 2000 mg/m ³ 8 hours.
Carbon Dioxide	ACGIH TLV (United States, 3/2016). Oxygen
	Depletion [Asphyxiant].
	TWA: 5000 ppm 8 hours.
	TWA: 9000 mg/m ³ 8 hours.
	STEL: 30000 ppm 15 minutes.
	STEL: 54000 mg/m ³ 15 minutes.
	NIOSH REL (United States, 10/2016).
	TWA: 5000 ppm 10 hours.
	TWA: 9000 mg/m ³ 10 hours.
	STEL: 30000 ppm 15 minutes.
	STEL: 54000 mg/m ³ 15 minutes.
	OSHA PEL (United States, 6/2016).
	TWA: 5000 ppm 8 hours.
	TWA: 9000 mg/m ³ 8 hours.
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Occupational exposure limits (Canada)

7/2016).TWA: 200 ppm 8 hours.STEL: 400 ppm 15 minutes.CA Ontario Provincial (Canada, 7/2015).TWA: 200 ppm 8 hours.STEL: 400 ppm 15 minutes.CA Québec Provincial (Canada, 1/2014).TWAEV: 400 ppm 8 hours.TWAEV: 983 mg/m³ 8 hours.STEV: 500 ppm 15 minutes.STEV: 1230 mg/m³ 15 minutes.STEV: 1230 mg/m³ 15 minutes.CA Saskatchewan Provincial (Canada, 7/2013).STEL: 400 ppm 15 minutes.TWAE: 200 ppm 8 hours.TWA: 200 ppm 8 hours.CA Alberta Provincial (Canada, 4/2009).8 hrs OEL: 400 ppm 8 hours.CA British Columbia Provincial (Canada, 7/2015).TWA: 400 ppm 8 hours.CA Ontario Provincial (Canada, 7/2015).TWA: 400 ppm 8 hours.CA Québec Provincial (Canada, 7/2014).TWA: 400 ppm 8 hours.	Ingredient name		Exposure limits
8 hrs OEL: 400 ppm 8 hours. 8 hrs OEL: 1610 mg/m ³ 8 hours. CA British Columbia Provincial (Canada, 7/2016). TWA: 400 ppm 8 hours. CA Ontario Provincial (Canada, 7/2015). TWA: 400 ppm 8 hours. CA Québec Provincial (Canada, 1/2014). TWAEV: 400 ppm 8 hours.			 15 min OEL: 984 mg/m³ 15 minutes. 8 hrs OEL: 200 ppm 8 hours. 15 min OEL: 400 ppm 15 minutes. 8 hrs OEL: 492 mg/m³ 8 hours. CA British Columbia Provincial (Canada, 7/2016). TWA: 200 ppm 8 hours. STEL: 400 ppm 15 minutes. CA Ontario Provincial (Canada, 7/2015). TWA: 200 ppm 8 hours. STEL: 400 ppm 15 minutes. CA Québec Provincial (Canada, 1/2014). TWAEV: 400 ppm 8 hours. STEV: 983 mg/m³ 8 hours. STEV: 500 ppm 15 minutes. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 400 ppm 15 minutes.
CA Saskatchewan Provincial (Canada, 7/2013).	Methyl Cyclohexane		8 hrs OEL: 400 ppm 8 hours. 8 hrs OEL: 1610 mg/m ³ 8 hours. CA British Columbia Provincial (Canada, 7/2016). TWA: 400 ppm 8 hours. CA Ontario Provincial (Canada, 7/2015). TWA: 400 ppm 8 hours. CA Québec Provincial (Canada, 1/2014). TWAEV: 400 ppm 8 hours. TWAEV: 1610 mg/m ³ 8 hours. CA Saskatchewan Provincial (Canada,

Section 8. Exposure controls/personal protection

STEL: 500 ppm 15 minutes. TWA: 400 ppm 8 hours.				
Occupational exposure lim	iits (Mexico)	i		
Ingredient name		Exposure limits		
2-Propanol Methyl Cyclohexane		NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 200 ppm 8 hours. STEL: 400 ppm 15 minutes. NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 400 ppm 8 hours.		
Appropriate engineering controls	other engineering controls recommended or statutory	ntilation. Use process enclosures, local exhaust ventilation or to keep worker exposure to airborne contaminants below any limits. The engineering controls also need to keep gas, ns below any lower explosive limits. Use explosion-proof		
Environmental exposure controls	they comply with the requin cases, fume scrubbers, filt	missions from ventilation or work process equipment should be checked to ensure ey comply with the requirements of environmental protection legislation. In some uses, fume scrubbers, filters or engineering modifications to the process equipment Il be necessary to reduce emissions to acceptable levels.		
Individual protection measure	ures			
Hygiene measures	eating, smoking and using Appropriate techniques sh	d 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 safety vorkstation location.		
Eye/face protection	assessment indicates this gases or dusts. If contact	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, jases or dusts. If contact is possible, the following protection should be worn, unless he assessment indicates a higher degree of protection: chemical splash goggles.		
Skin protection				
Hand protection	worn at all times when har necessary. Considering th during use that the gloves noted that the time to brea glove manufacturers. In th	vious gloves complying with an approved standard should be adling chemical products if a risk assessment indicates this is are parameters specified by the glove manufacturer, check are still retaining their protective properties. It should be kthrough for any glove material may be different for different are case of mixtures, consisting of several substances, the es cannot be accurately estimated.		
Body protection	performed and the risks in handling this product. Wh static protective clothing.	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	based on the task being pe	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	appropriate standard or ce	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		

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Section 9. Physical and chemical properties

Appearance	
Physical state	: Liquid.
Color	: Not available.
Odor	: Not available.
Odor threshold	: Not available.
рН	: Not available.
Melting point	: Not available.
Boiling point	: Not available.
Flash point	: Closed cup: 17°C (62.6°F) [Pensky-Martens Closed Cup]
Evaporation rate	: 1.5 (butyl acetate = 1)
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Lower: 0.9% Upper: 12.7%
Vapor pressure	: 101.3 kPa (760 mm Hg) [at 20°C]
Vapor density	: 2.07 [Air = 1]
Relative density	: 0.72
Solubility	: Not available.
Partition coefficient: n- octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Kinematic (40°C (104°F)): <0.205 cm ² /s (<20.5 cSt)
Molecular weight	: Not applicable.
Aerosol product	
Type of aerosol	: Spray
Heat of combustion	: 37.141 kJ/g

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).
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2-Propanol	LD50 Dermal LD50 Oral		12800 mg/kg 5000 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2-Propanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-
	Eyes - Severe irritant	Rabbit	-	100 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
Methyl Cyclohexane	Eyes - Mild irritant	Rabbit	-	24 hours 100 microliters	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 microliters	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
2-Propanol	-	3	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Light Aliphatic Hydrocarbon Solvent	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
2-Propanol	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Lt. Aliphatic Hydrocarbon Solvent	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Methyl Cyclohexane	Category 3	Not applicable.	Narcotic effects

Specific target organ toxicity (repeated exposure)

Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
Light Aliphatic Hydrocarbon Solvent 2-Propanol Lt. Aliphatic Hydrocarbon Solvent	Category 2	Not determined	Not determined Not determined Not determined

Aspiration hazard

Name	Result
	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
Methyl Cyclohexane	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure	: Not available.
Potential acute health effec	<u>ts</u>
Eye contact	: Causes serious eye irritation.
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
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 ph	nysical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing 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 effe	ects 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	: Not available.
Potential chronic health eff	ects
Not available.	
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General
Carcinogenicity
Mutagenicity
Teratogenicity
Developmental effects
Fertility effects

- : May cause damage to organs through prolonged or repeated exposure.
- : No known significant effects or critical hazards.
- : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	5000 mg/kg

Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure
2-Propanol	Acute EC50 10100 mg/l Fresh water Acute LC50 1400000 µg/l Marine water Acute LC50 4200 mg/l Fresh water	Daphnia - Daphnia magna Crustaceans - Crangon crangon Fish - Rasbora heteromorpha	48 hours 48 hours 96 hours
Lt. Aliphatic Hydrocarbon Solvent	Acute LC50 >100000 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
Methyl Cyclohexane	Acute LC50 5800 µg/l Marine water	Fish - Morone saxatilis - Juvenile (Fledgling, Hatchling, Weanling)	96 hours

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
2-Propanol	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Light Aliphatic Hydrocarbon Solvent	-	10 to 2500	high
Lt. Aliphatic Hydrocarbon Solvent	-	10 to 2500	high
Methyl Cyclohexane	-	186.21	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 at all times 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. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

Section 14. Transport information

shipping nameImage: constraint of the state o	950 UN1950
hazard class(es)Image: Constraint of the state of the stat	OSOLS, AEROSOLS mable
Environmental hazardsNo.No.No.No.Additional informationProduct classified as per the following sections of the Transportation of-	2.1
hazards Product classified as per the following sections of the Transportation of	-
information as per the following sections of the Transportation of	No.
Regulations: 2. 13-2.17 (Class 2).	<u>Emergency</u> <u>schedules</u> F-D, S- U
ERG No. ERG No. ERG No.	
126 126 126	
 Special precautions for user Multi-modal shipping descriptions are provided for in consider container sizes. The presence of a shipping mode of transport (sea, air, etc.), does not indicate the suitably for that mode of transport. All packaging multiprior to shipment, and compliance with the applicable responsibility of the person offering the product for the unloading dangerous goods must be trained on all of substances and on all actions in case of emergency Transport in bulk according to Annex II of MARPOL and 	description for a particular nat the product is packaged st be reviewed for suitability e regulations is the sole ansport. People loading and the risks deriving from the
the IBC Code	
Proper shipping name: Not available.Ship type: Not available.	

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: Not available.

Pollution category

Section 15. Regulatory information

SARA 313

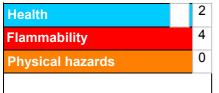
SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

Procedure used to derive the classification

	Justification		
FLAMMABLE AEROSOLS GASES UNDER PRESSU SKIN CORROSION/IRRIT, SERIOUS EYE DAMAGE/ SPECIFIC TARGET ORG/ irritation) - Category 3 SPECIFIC TARGET ORG/ Category 3 SPECIFIC TARGET ORG/ ASPIRATION HAZARD - C	On basis of test data Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method		
History			
Date of printing	: 9/3/2017		
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Version	: 2		
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 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) UN = United Nations		

Notice to reader

Section 16. Other information

It is recommended that each customer or recipient of this Safety Data Sheet (SDS study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.