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SAFETY DATA SHEET

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POC-7004B

Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, GHS & EU Standards

SDS Revision: 1.1

SDS Revision Date: 12/14/2019

3. COMPOSITION & INGREDIENT INFORMATION – cont'd

CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	EXPOSURE LIMITS IN AIR (mg/m³)								OTHER
					ACGIH		NOHSC			OSHA			
					ppm		ppm			ppm			
					TLV	STEL	ES-TWA	ES-STEL	ES-PEAK	PEL	STEL	IDLH	
CI SOLVENT YELLOW 175	NA	NA	NA	≤ 0.1	NA	NA	NF	NF	NF	NA	NA	NA	
DIPROPYLENE GLYCOL MONOMETHYL ETHER	34590-94-8	NA	252-104-2	≤ 0.1	NA	NA	NF	NF	NF	NA	NA	NA	
* < 3% DIMETHYL SULFOXIDE (DMSO) per IP346													

4. FIRST AID MEASURES

4.1	First Aid:	<p>Ingestion: DO NOT INDUCE VOMITING. Contact Poison Control Center or local emergency telephone number for assistance and instructions. If you feel unwell, seek medical advice (show the label where possible). If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.</p> <p>Eyes: If product gets in the eyes, flush eyes thoroughly with copious amounts of water for at least 15 minutes, holding eyelid(s) open to ensure complete flushing. If the eyes or face become swollen during or following use, consult a physician or emergency room immediately.</p> <p>Skin: Remove contaminated clothing and wash affected areas with soap and water. If discomfort persists and/or the skin reaction worsens, contact a physician immediately. Do not wear contaminated clothing until after it has been properly cleaned.</p> <p>Inhalation: Remove victim to fresh air at once. Under extreme conditions, if breathing stops, perform artificial respiration. Seek immediate medical attention.</p>															
4.2	Effects of Exposure:	<p>Ingestion: Irritation to the gastrointestinal tract. This material can enter the lungs during swallowing or vomiting and cause lung damage.</p> <p>Eyes: Irritation upon direct contact. Symptoms may include stinging, tearing, redness and swelling.</p> <p>Skin: Mildly irritating. Prolonged or repeated skin contact can result in defatting, drying of the skin with symptoms of redness, stinging.</p> <p>Inhalation: Inhalation may cause irritation to the respiratory tract (nose, throat and lungs). May be fatal if swallowed and enters airways.</p>															
4.3	Symptoms of Overexposure:	<p>Ingestion: Nausea, intestinal discomfort, vomiting and/or diarrhea.</p> <p>Eyes: Overexposure in eyes may cause redness, itching and watering.</p> <p>Skin: Symptoms of skin overexposure may include redness, itching, and irritation of affected areas. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in some individuals.</p> <p>Inhalation: May cause irritation or asthma-like symptoms.</p>															
4.4	Acute Health Effects:	Moderate irritation to eyes and skin near affected areas. Additionally, high concentrations of vapors can cause drowsiness, dizziness, headaches and nausea.															
4.5	Chronic Health Effects:	None reported by the manufacturer.															
4.6	Target Organs:	Eyes, Skin															
4.7	Medical Conditions Aggravated by Exposure:	Pre-existing skin, eye, or respiratory disorders.															
		<table><tr><td colspan="2">HEALTH</td><td>2</td></tr><tr><td colspan="2">FLAMMABILITY</td><td>1</td></tr><tr><td colspan="2">PHYSICAL HAZARDS</td><td>0</td></tr><tr><td colspan="2">PROTECTIVE EQUIPMENT</td><td>B</td></tr><tr><td>EYES</td><td>SKIN</td><td></td></tr></table>	HEALTH		2	FLAMMABILITY		1	PHYSICAL HAZARDS		0	PROTECTIVE EQUIPMENT		B	EYES	SKIN	
HEALTH		2															
FLAMMABILITY		1															
PHYSICAL HAZARDS		0															
PROTECTIVE EQUIPMENT		B															
EYES	SKIN																

5. FIREFIGHTING MEASURES

5.1	Fire & Explosion Hazards:	WARNING! Keep away from heat, hot surface, sparks, open flames and other ignition sources. No smoking. If involved in a fire, this product may decompose at high temperatures to form toxic gases (e.g., CO, CO _x , hydrocarbons). Vapors of this product are heavier than air and may travel to a source of ignition and flash back to a leaking or open container.	
5.2	Extinguishing Methods:	For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. Use water spray to cool fire-exposed containers. Water may be ineffective. For large fires, use water spray, fog or alcohol-resistant foam. Do NOT use straight streams of water.	
5.3	Firefighting Procedures:	As with any fire, firefighters should wear appropriate protective equipment including a MSHA/NIOSH approved or equivalent self-contained breathing apparatus (SCBA) and protective clothing. Treat as hot oil. Hazardous decomposition products may be released. Thermal degradation may produce oxides of carbon, and/or nitrogen, hydrocarbons and/or derivatives. Fire should be fought from a safe distance. Keep containers cool until well after the fire is out. Use water spray to cool fire-exposed surfaces and to protect personal. Fight fire upwind. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway.	



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9. PHYSICAL & CHEMICAL PROPERTIES

9.1	Appearance:	Green liquid.
9.2	Odor:	Petroleum-like odor.
9.3	Odor Threshold:	NA
9.4	pH:	NA
9.5	Melting Point/Freezing Point:	NA
9.6	Initial Boiling Point/Boiling Range:	NA
9.7	Flashpoint:	< 110 °C (< 230 °F)
9.8	Upper/Lower Flammability Limits:	NA
9.9	Vapor Pressure:	NA
9.10	Vapor Density:	NA
9.11	Relative Density:	0.842
9.12	Solubility:	Negligible
9.13	Partition Coefficient (log P _{ow}):	NA
9.14	Autoignition Temperature:	NA
9.15	Decomposition Temperature:	NA
9.16	Viscosity:	34.3 cSt @ 40 °C
9.17	Other Information:	VOC: 0%

10. STABILITY & REACTIVITY

10.1	Stability:	Relatively stable under ambient conditions when stored properly.
10.2	Hazardous Decomposition Products:	If exposed to <u>extremely high temperatures</u> , products of thermal decomposition may include irritating vapors and toxic gases (e.g., oxides of carbon & nitrogen).
10.3	Hazardous Polymerization:	Will not occur.
10.4	Conditions to Avoid:	Exposure or contact to extreme temperatures, incompatible chemicals, strong light sources, sparks, flame.
10.5	Incompatible Substances:	Strong oxidizers, peroxides or strong acids or alkalis.

11. TOXICOLOGICAL INFORMATION

11.1	Routes of Entry:	Inhalation: YES	Absorption: YES	Ingestion: NO
11.2	Toxicity Data:	This product has NOT been tested on animals to obtain toxicology data. Toxicology data, found in scientific literature, is available for some of the components of the product and is presented below. <u>Petroleum Distillates, Hydrotreated Light Paraffinic</u> – LD ₅₀ (oral, rat) > 5,000 mg/kg; LD ₅₀ (dermal, rabbit) > 2,000 mg/kg; <u>Ethylbenzene</u> – LD ₅₀ (oral, rat): 3,500 mg/kg; LD ₅₀ (dermal, rabbit) 15,415 mg/kg; LC ₅₀ (inh, rat, 4h): 17.8 mg/L; <u>Toluene</u> – LD ₅₀ (oral, rat): 5,580 mg/kg; LD ₅₀ (dermal, rabbit) > 5,000 mg/kg; LC ₅₀ (inh, rat, 4h) > 28.1 mg/L; <u>Dibutyl Phosphate</u> : LD ₅₀ (oral, rat) 3,200 mg/kg; <u>White Mineral Oil</u> : LD ₅₀ (oral, rat) > 5,000 mg/kg; LD ₅₀ (dermal, rabbit) 5,000 mg/kg; <u>2,6-Di-tert Butylphenol</u> : > 2,000 mg/kg; <u>Dipropylene Glycol Monomethyl Ether</u> : LD ₅₀ (oral, rat) > 5,135 mg/kg; LD ₅₀ (dermal, rabbit) 9,500 mg/kg.		
11.3	Acute Toxicity:	May be fatal if swallowed and enters airways. Mineral oil mists derived from highly refined oils are reported to have low acute and sub-acute toxicities in animals.		
11.4	Chronic Toxicity:	Prolonged or repeated skin contact can cause mild irritation and inflammation characterized by drying, cracking, (dermatitis) or oil acne.		
11.5	Suspected Carcinogen:	<u>Petroleum Distillates, Hydrotreated Light Paraffinic</u> is listed on the ACGIH A2 list (Suspected human carcinogen); however, product contains less than 3% Dimethyl Sulfoxide (DMSO) per IP346. The following substance(s) is/are listed on the IARC Group 2B list (Possibly Carcinogenic to Humans): <u>Ethylbenzene</u> . The following substance(s) is/are listed on the IARC Group 3 list (Not Classifiable as to its Carcinogenicity to Humans): <u>Toluene</u> . The following substances are listed on the California Proposition 65 (cancer) list: <u>Ethylbenzene</u> .		
11.6	Reproductive Toxicity:	<u>Toluene</u> is suspected of damaging fertility or the unborn child and is listed on the California Prop 65 (reproductive) list.		
	Mutagenicity:	This product is not reported to produce mutagenic effects in humans.		
	Embryotoxicity:	This product is not reported to produce embryotoxic effects in humans.		
	Teratogenicity:	This product is not reported to cause teratogenic effects in humans.		
	Reproductive Toxicity:	<u>Toluene</u> is suspected of damaging fertility or the unborn child and is listed on the California Prop 65 (reproductive) list.		
11.7	Irritancy of Product:	See Section 4.2		
11.8	Biological Exposure Indices:	NE		
11.9	Physician Recommendations:	Treat symptomatically.		



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12. ECOLOGICAL INFORMATION

12.1	Environmental Stability:	Data, available from scientific literature, is available for some of the components of this mixture and is presented below. Partition Coefficient (log P_{ow}): <u>Ethylbenzene</u> : 3.118 and <u>Toluene</u> : 2.65. <u>Ethylbenzene</u> : Readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil. <u>2,6-Di-tert-Butylphenol</u> : Not readily biodegradable in water. Forming sediments in water. <u>Dibutyl Phosphonate</u> : Photodegradation in the air.
12.2	Effects on Plants & Animals:	There are no specific data available for this product. An environmental fate analysis has not been conducted on this specific product. However, plants and animals may experience harmful or fatal effects when coated with petroleum-based products.
12.3	Effects on Aquatic Life:	<u>Ethylbenzene</u> : LC ₅₀ (Lepomis macrochirus, 96h): 32.0 mg/L; LC ₅₀ (Pimephales promelas, 96h): 12.1 mg/L; EC ₅₀ (Daphnia magna, 48h): 4.7 mg/L. <u>Toluene</u> : LC ₅₀ (Lepomis macrochirus, 96h): 17.0 mg/L; EC ₅₀ (Daphnia magna, 48h): 313 mg/L. <u>Xylene</u> : LC ₅₀ (Lepomis macrochirus, 96h): 13.5 mg/L; EC ₅₀ (Daphnia magna, 48h): 7.4 mg/L. <u>Dipropylene Glycol Monomethyl Ether</u> : LC ₅₀ (Pimephales promelas, 96h): > 10,000 mg/L. <u>2,6-di-tert-butylphenol</u> : EC ₅₀ (Daphnia magna, 48h): 0.45 mg/L. <u>White Mineral Oil</u> : LC ₅₀ (Oncorhynchus mykiss, 96h): > 100 mg/L.

13. DISPOSAL CONSIDERATIONS


13.1	Waste Disposal:	Review current local, state and federal laws, codes, statutes and regulations to determine current status and appropriate disposal method for the ingredients listed in Section 3. Dispose of in accordance with local, state, provincial and federal laws and regulations. Disposal of hazardous waste must be through by a licensed treatment, storage or disposal facility (TSDF).
13.2	Special Considerations:	Contact the federal, state or provincial environmental authority to determine suitability for recycling and or proper disposal requirements

14. TRANSPORTATION INFORMATION

The basic description (ID Number, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional descriptive information may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.

14.1	49 CFR (GND):	NOT REGULATED
14.2	IATA (AIR):	NOT REGULATED
14.3	IMDG (OCN):	NOT REGULATED
14.4	TDGR (Canadian GND):	NOT REGULATED
14.5	ADR/RID (EU):	NOT REGULATED
14.6	SCT (MEXICO):	NOT REGULATED
14.7	ADGR (AUS):	NOT REGULATED

15. REGULATORY INFORMATION

15.1	SARA Reporting Requirements:	This product does not contain any substances subject to SARA Title III, Section 313 reporting requirements
15.2	SARA TPQ:	There are no specific Threshold Planning Quantities for the components of this product.
15.3	TSCA Inventory Status:	The components of this product are listed on the TSCA Inventory.
15.4	CERCLA Reportable Quantity:	NA
15.5	Other Federal Requirements:	NA
15.6	Other Canadian Regulations:	This product has been classified according to the hazard criteria of the CPR and the SDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List. WHMIS D2B (Other Toxic Effects). 
15.7	State Regulatory Information:	<u>Toluene</u> is listed on the following state criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY), Pennsylvania Right-to-Know List (PA), Washington Permissible Exposures List (WA), and Wisconsin Hazardous Substances List (WI). <u>Xylene</u> is listed on the following state criteria list(s): FL, MA, MI, MN, NJ, PA, WA, WI. <u>Ethylbenzene</u> is listed on the following state criteria list(s): FL, MA, MN, PA, WA. <u>Paraffinum Liquidum</u> is listed on the following state criteria list(s): MA, MN and WA. <u>Distillates (Petroleum)</u> , <u>Hydrotreated Light Paraffinic</u> is listed on the following state criteria list(s): MA. No ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following state criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY), Pennsylvania Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WI).



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15. REGULATORY INFORMATION – cont'd

15.8	Other Requirements:	<p>All components are either listed on the U.S. TSCA inventory or are not regulated under TSCA under 40 CFR § 720.30.</p> <p>Listed on AICS (Australian Inventory of Chemical Substances)</p> <p>Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)</p> <p>Listed on KECI (Korean Existing Chemicals Inventory)</p> <p>New Zealand Inventory of Chemicals (NZIoC) Registration Status:</p> <p>CAS 64742-47-8: May be used as a single component chemical under an appropriate group standard</p> <p>CAS 64742-55-8: May be used as a single component chemical under an appropriate group standard</p> <p>CAS 8042-47-5: May be used as a single component chemical under an appropriate group standard</p> <p>CAS 72623-86-0: Maybe used as a component in a product covered by a group standard but it is not approved for use as a chemical in its own right</p> <p>CAS 8012-95-1: May be used as a single component chemical under an appropriate group standard</p> <p>CAS 128-39-2: HSR005197</p> <p>CAS 1809-19-4: Maybe used as a component in a product covered by a group standard but it is not approved for use as a chemical in its own right</p> <p>CAS 108-88-3: HSR001227</p> <p>CAS 64742-47-8: May be used as a single component chemical under an appropriate group standard</p> <p>CAS 1330-20-7: HSR000983</p> <p>CAS 74499-36-8: Maybe used as a component in a product covered by a group standard but it is not approved for use as a chemical in its own right</p> <p>CAS 100-41-4: HSR001151</p> <p>CAS 34590-94-8: HSR001402</p> <p>NZIoC Classification: 6.1E, Lubricants (Low Hazard) – HSR002605</p> <p>Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)</p>
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16. OTHER INFORMATION

16.1	Other Information:	<p>DANGER! MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store locked up.</p> <p>KEEP OUT OF REACH OF CHILDREN.</p>	
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.	
16.3	Disclaimer:	<p>This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of ShipMate's, Smarter Sorting's & Petra Oil Company's knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness is not guaranteed and no warranties of any type, either expressed or implied, are provided. The information contained herein relates only to the specific product(s). If this product(s) is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.</p>	
16.4	Prepared for:	<p>Petra Oil Company 50 Jacobs Lane Ngaruawahia 3792, New Zealand Tel: +64 (21) 771 703 Email: agacita@petraoilco.com</p>	
16.5	Prepared by:	<p>Smarter Sorting 2900 E. Cesar Chavez Street Austin, TX 78702 USA Tel: +1 (512) 593-2594 E-mail: support@smarterorting.com https://www.smarterorting.com</p>	



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DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on an SDS. Some of these that are commonly used include the following:

GENERAL INFORMATION:

STOT SE Specific Target Organ Toxicity – Single Exposure

CAS No.	Chemical Abstract Service Number
RTECS No.	Registry of Toxic Effects of Chemical Substances Number
EINECS No.	European Inventory of Existing Commercial Chemical Substances Number

EXPOSURE LIMITS IN AIR:

ACGIH	American Conference on Governmental Industrial Hygienists
IDLH	Immediately Dangerous to Life and Health
NOHSC	National Occupational Health and Safety Commission (Australia)
OSHA	U.S. Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weighted Average

FIRST AID MEASURES:

CPR	Cardiopulmonary resuscitation - method in which a person whose heart has stopped receives manual chest compressions and breathing to circulate blood and provide oxygen to the body.
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HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard

HEALTH
FLAMMABILITY
PHYSICAL HAZARDS
PERSONAL PROTECTION

PERSONAL PROTECTION RATINGS:

A	
B	
C	
D	
E	
F	

G	
H	
I	
J	
K	
X	Consult your supervisor or SOPs for special handling directions.

Safety Glasses	Splash Goggles	Face Shield & Protective Eyewear	Gloves
Boots	Protective Apron	Protective Clothing & Full Suit	Dust Respirator
Full Face Respirator	Dust & Vapor Half-Mask Respirator	Full Face Respirator	Airline Hood/Mask or SCBA

OTHER STANDARD ABBREVIATIONS:

Carc	Carcinogenic
Irrit	Irritant
NA	Not Available
NR	No Results
ND	Not Determined
NE	Not Established
NF	Not Found
SCBA	Self-Contained Breathing Apparatus
Sens	Sensitization
STOT RE	Specific Target Organ Toxicity – Repeat Exposure



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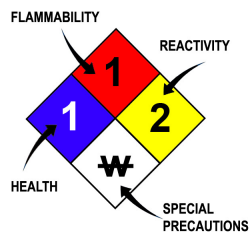
NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:

Autoignition Temperature	Minimum temperature required to initiate combustion in air with no other source of ignition
LEL	Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source
UEL	Upper Explosive Limit - highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source

HAZARD RATINGS:

0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard
ACD	Acidic
ALK	Alkaline
COR	Corrosive
W	Use No Water
OX	Oxidizer
TREFOIL	Radioactive



TOXICOLOGICAL INFORMATION:

LD₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals
LC₅₀	Lethal concentration (gases) which kills 50% of the exposed animal
ppm	Concentration expressed in parts of material per million parts
TD₁₀	Lowest dose to cause a symptom
TCL₀	Lowest concentration to cause a symptom
TD₁₀, LD₁₀, & LD₅₀ or TC, TC₀, LC₁₀, & LC₅₀	Lowest dose (or concentration) to cause lethal or toxic effects
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances
BCF	Bioconcentration Factor
TL_m	Median threshold limit
log Kow or log Koc	Coefficient of Oil/Water Distribution

REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System
DOT	U.S. Department of Transportation
TC	Transport Canada
EPA	U.S. Environmental Protection Agency
DSL	Canadian Domestic Substance List
NDSL	Canadian Non-Domestic Substance List
PSL	Canadian Priority Substances List
TSCA	U.S. Toxic Substance Control Act
EU	European Union (European Union Directive 67/548/EEC)
WGK	Wassergefährdungsklassen (German Water Hazard Class)

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

Class A	Class B	Class C	Class D1	Class D2	Class D3	Class E	Class F
Compressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive

CLP/GHS (1272/2008/EC) PICTOGRAMS:

GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment