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POC-4002B Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, GHS & EU Standards SDS Revision Date: 12/14/2019 SDS Revision: 1.1 1. PRODUCT & COMPANY IDENTIFICATION 11 Product Name PETRA UNIVERSAL COOLING CONDITIONER & SEALANT 1.2 Chemical Name: **Aqueous Solution** 1.3 Synonyms: 4002B 1.4 Trade Names: Petra Universal Cooling Conditioner & Sealant 1.5 Product Use: Radiator Sealer Distributor's Name: 1.6 Petra Oil NZ 50 Jacobs Lane, Ngaruawahia 3792, New Zealand 1.7 Distributor's Address 1.8 Emergency Phone: NZ NATIONAL POISONS CENTRE (0800) 764 766 Tel: +64 (21) 771 703 1.9 Business Phone / Fax: 2. HAZARDS IDENTIFICATION 2.1 Hazard Identification: This product is classified as a HAZARDOUS SUBSTANCE but not as DANGEROUS GOODS according to the classification criteria of WHSR and ADG Code (Australia). WARNING! MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSE EYE IRRITATION. Classification: Skin Sens. 1 Label Elements: 2.2 Hazard Statements (H): H317 - May cause an allergic skin reaction. H320 - Causes eve irritation. Precautionary Statements (P): P261 - Avoid breathing mist/spray. P272 - Contaminated work clothing must not be allowed out of the workplace. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 - If on skin: Wash with plenty of soap and water. P321 -Specific treatment: See section 4.1 of the Safety Data Sheet. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P363 - Wash contaminated clothing before reuse. P501 Dispose of contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations. Other Warnings: In the event of an exposure or medical inquiry involving this product, please contact a physician or local poison control center, who may seek advice from the U.S. manufacturer, and show them this SDS. If medical advice is needed, have product container or label at hand. KEEP OUT OF REACH OF CHILDREN. 3. COMPOSITION & INGREDIENT INFORMATION EXPOSURE LIMITS IN AIR (mg/m³) ACGIH NOHSC **OSHA** ppm ppm ppm ES-ES-ES-STEL CHEMICAL NAME(S) CAS No. RTECS No. **EINECS No.** TI V STEL TWA STEI PEAK PEL IDLH OTHER 7732-18-5 ZC0110000 231-791-2 NA NA NF NF NF NA WATER WALNUT (JUGLANS REGIA) 84012-43-1 NA 281-688-1 1-5 NA NA NF NF NF NA NA NA SHELL 35/60 MESH Press. Gas, Flam. Gas 1; H220; HSNO: HSR000989 612-383-7 DIATOMACEOUS EARTH. NA 1-5 61790-53-2 NA NA NF NF NF NA NA NA UNCALCINED 2,2',2"-(HEXAHYDRO-1,3,5-TRI-4719-04-4 NA 225-208-0 1-5 NA NA NF NF NF NA NA NA AZINE-1,3,5-TRIYL) TRIETHANOL Acute Tox. 4 (oral); Skin Sens. 1; H302, H317; HSNO: HSR003539 61790-53-2 NA 612-383-7 ≤ 1 NA NF NF NF NA NA NA NA **DEUTERIUM OXIDE** 111-42-2 KL2975000 203-868-0 ≤ 1 NA NA (3) 13 NF NA NA NA DIETHANOLAMINE Acute Tox. 4 (Oral), Skin Irrit. 2, Eye Dam. 1, STOT RE 2; H302, H315, H318, H373 4. FIRST AID MEASURES First Aid: Rinse mouth. DO NOT INDUCE VOMITING. Contact Poison Control Center or local emergency 4.1 Ingestion: 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. Remove contact lenses, if present and easy to do. Continue rinsing. If product gets in the eyes, flush Eyes: 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. Remove contaminated clothing and wash affected areas with soap and water. If discomfort persists Skin:

until after it has been properly cleaned.

respiration. Seek immediate medical attention.

Inhalation:

and/or the skin reaction worsens, contact a physician immediately. Do not wear contaminated clothing

Remove victim to fresh air at once. Under extreme conditions, if breathing stops, perform artificial



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		,	4. FIRST AID MEASURES – co		
.3	Effects of Exposure: Symptoms of Overexposure:	Ingestion: Eyes: Skin: Inhalation: Ingestion: Eyes: Skin: Inhalation:	Irritation to the gastrointestinal tract. This material cause lung damage. Irritation upon direct contact. Symptoms may include Repeated exposure to this material can result in hazard. Toxic in contact with skin. Causes skin irritation vapors of this product may be moderately irritating system. Symptoms of overexposure can include breathing. Inhalation of concentrated vapors of drowsiness, dizziness, headaches, nausea). Odor may occur. Nausea, intestinal discomfort, vomiting and/or diarroverxposure in eyes may cause redness, itching Symptoms of skin overexposure may include redness shortness of breath. May cause drowsiness or dizziness or dizziness.	can enter the lungs during swallowing or vor de stinging, tearing, redness and swelling. in absorption through skin causing significa- ation. I to the nose, throat and other tissues of the re- coughing, wheezing, nasal congestion, and can cause central nervous system depress or may give some warning of exposure, but of thea. and watering. ess, itching, and irritation of affected areas.	ant healt espirator d difficult sion (e.g
.4	Acute Health Effects:		an allergic skin reaction. Causes eye irritation. May l		
.5	Chronic Health Effects:		ed by the manufacturer.	be narmar if swallowed and enters all ways.	
.6	Target Organs:	Eyes, Skin	ou by the mandiastaror.		
.7	Medical Conditions Aggravated		skin, eye disorders.	HEALTH	1
	by Exposure:		, - ,	FLAMMABILITY	_
					1
				PHYSICAL HAZARDS	0
				PROTECTIVE EQUIPMENT	В
				EYES SKIN	
			5. FIREFIGHTING MEASURE	S	
.2	Extinguishing Methods:	carbon (e.g.	high temperatures, may produce hazardous decompo , CO, CO ₂) and nitrogen (e.g., NO _x) and smoke.	·	
.3	Extinguishing Methods: Firefighting Procedures:	carbon (e.g. Foam. Dry p As in any demand) ar Exercise ca environment drains, drink including NII	, CO, CO ₂) and nitrogen (e.g., NO _x) and smoke. bowder. Carbon dioxide. Water spray. Sand. Do not use fire, wear MSHA/NIOSH approved self-contained and full protective gear. Use water spray or fog aution when fighting any chemical fire. Prevent fat. Fight fire upwind. Prevent runoff from fire control king water supply, or any natural waterway. Firefig OSH-approved positive pressure self-contained breat	besition products such as oxides of suse a heavy water stream. breathing apparatus (pressurefor cooling exposed containers. fire-fighting water from entering or dilution from entering sewers, ghters must use full bunker gear thing apparatus to protect against	0
		carbon (e.g. Foam. Dry p As in any demand) ar Exercise ca environment drains, drink including NI potential haz	, CO, CO ₂) and nitrogen (e.g., NO _x) and smoke. bowder. Carbon dioxide. Water spray. Sand. Do not use fire, wear MSHA/NIOSH approved self-contained and full protective gear. Use water spray or foguation when fighting any chemical fire. Prevent fat. Fight fire upwind. Prevent runoff from fire control king water supply, or any natural waterway. Firefig OSH-approved positive pressure self-contained breat gardous combustion or decomposition products and control contr	position products such as oxides of suse a heavy water stream. breathing apparatus (pressurefor cooling exposed containers. fire-fighting water from entering or dilution from entering sewers, ghters must use full bunker gear thing apparatus to protect against oxygen deficiencies.	0
		carbon (e.g. Foam. Dry p As in any demand) ar Exercise ca environment drains, drink including NII potential haz	, CO, CO ₂) and nitrogen (e.g., NO _x) and smoke. bowder. Carbon dioxide. Water spray. Sand. Do not use fire, wear MSHA/NIOSH approved self-contained and full protective gear. Use water spray or fog aution when fighting any chemical fire. Prevent of the transfer of tra	position products such as oxides of suse a heavy water stream. breathing apparatus (pressure- for cooling exposed containers. fire-fighting water from entering or dilution from entering sewers, ghters must use full bunker gear thing apparatus to protect against oxygen deficiencies. SURES cleanup must wear appropriate Personal ersonal protective equipment (e.g., goggles)	s, gloves
.3	Firefighting Procedures:	carbon (e.g. Foam. Dry p As in any demand) ar Exercise ca environment drains, drink including NII potential haz Before clea Equipment. For small s Maximize v absorbent r local, state s soap. Remo For large sp material (e.g. containers fe	, CO, CO ₂) and nitrogen (e.g., NO _x) and smoke. bowder. Carbon dioxide. Water spray. Sand. Do not use fire, wear MSHA/NIOSH approved self-contained and full protective gear. Use water spray or fog aution when fighting any chemical fire. Prevent fit. Fight fire upwind. Prevent runoff from fire control king water supply, or any natural waterway. Firefig OSH-approved positive pressure self-contained breat zardous combustion or decomposition products and composition products and composition and spill or leak, individuals involved in spill	position products such as oxides of suse a heavy water stream. In breathing apparatus (pressure- for cooling exposed containers. fire-fighting water from entering or dilution from entering sewers, ghters must use full bunker gear thing apparatus to protect against boxygen deficiencies. SURES Cleanup must wear appropriate Personal ersonal protective equipment (e.g., goggles all sources of ignition. Remove spilled may be for disposal. Dispose of properly in accord and outside of container with plenty of warm before reuse. Brotected individuals. Dike and contain spill covery or disposal and solid diking material to promptly and wash affected skin areas with	s, gloves aterial wirdance wir water ar with ine o separar
.3	Firefighting Procedures:	carbon (e.g. Foam. Dry p As in any demand) ar Exercise ca environment drains, drink including NIV potential haz Before clea Equipment. For small s Maximize v absorbent r local, state a soap. Remo For large sy material (e.g. containers f water. Keep	owder. Carbon dioxide. Water spray. Sand. Do not use fire, wear MSHA/NIOSH approved self-contained and full protective gear. Use water spray or fog aution when fighting any chemical fire. Prevent fut. Fight fire upwind. Prevent runoff from fire control king water supply, or any natural waterway. Firefig OSH-approved positive pressure self-contained breat grandous combustion or decomposition products and composition products and composition products and composition (open doors and windows) and secure a naterial and place into appropriate closed container(spand federal regulations. Wash all affected areas are one any contaminated clothing and wash thoroughly the folias (e.g., ≥ 1 gallon (3.8 L)), deny entry to all unpoles, sand or earth). Transfer liquid to containers for recomposition or proper disposal. Remove contaminated clothing	position products such as oxides of suse a heavy water stream. In breathing apparatus (pressure- for cooling exposed containers. fire-fighting water from entering or dilution from entering sewers, ghters must use full bunker gear thing apparatus to protect against boxygen deficiencies. SURES Cleanup must wear appropriate Personal ersonal protective equipment (e.g., goggles all sources of ignition. Remove spilled may be for disposal. Dispose of properly in accord and outside of container with plenty of warm before reuse. Brotected individuals. Dike and contain spill covery or disposal and solid diking material to promptly and wash affected skin areas with and open bodies of water.	s, gloves aterial wit dance wit water an with ine o separat
.3	Firefighting Procedures:	carbon (e.g. Foam. Dry p As in any demand) ar Exercise ca environment drains, drink including NI potential haz Before clea Equipment. For small s Maximize w absorbent m local, state a soap. Remo For large sy material (e.g. containers fo water. Keep Avoid prolor (e.g., local e or smoke wh	owder. Carbon dioxide. Water spray. Sand. Do not use fire, wear MSHA/NIOSH approved self-contained and full protective gear. Use water spray or fog aution when fighting any chemical fire. Prevent full fire upwind. Prevent runoff from fire control king water supply, or any natural waterway. Firefig OSH-approved positive pressure self-contained breat azardous combustion or decomposition products and combustion or decomposition products and combustion or leak, individuals involved in spill pills (e.g., < 1 gallon (3.8 L)) wear appropriate prediction (open doors and windows) and secure a material and place into appropriate closed container(seand federal regulations. Wash all affected areas are one any contaminated clothing and wash thoroughly be possible. (e.g., ≥ 1 gallon (3.8 L)), deny entry to all unput go, sand or earth). Transfer liquid to containers for record proper disposal. Remove contaminated clothing or spills and cleaning runoffs out of municipal sewers are the product with the product. Avoid breathing variable handling product.	besition products such as oxides of suse a heavy water stream. breathing apparatus (pressure- for cooling exposed containers. fire-fighting water from entering or dilution from entering sewers, ghters must use full bunker gear thing apparatus to protect against boxygen deficiencies. SURES cleanup must wear appropriate Personal ersonal protective equipment (e.g., goggles all sources of ignition. Remove spilled ma before reuse. For otected individuals. Dike and contain spill covery or disposal and solid diking material to promptly and wash affected skin areas with and open bodies of water. MATION pors of this product. Use in a well-ventilated d exposed skin with soap and water. Do not	s, gloves sterial widance widance wide water ar with ine o separa soap ar ed locatic t eat, drir
1	Firefighting Procedures: Spills:	carbon (e.g. Foam. Dry p As in any demand) ar Exercise ca environment drains, drink including NIV potential haz Before clea Equipment. For small s Maximize w absorbent m local, state a soap. Remo For large sy material (e.g. containers fo water. Keep Avoid prolor (e.g., local e or smoke wh	owder. Carbon dioxide. Water spray. Sand. Do not use fire, wear MSHA/NIOSH approved self-contained and full protective gear. Use water spray or fog aution when fighting any chemical fire. Prevent full fire upwind. Prevent runoff from fire control king water supply, or any natural waterway. Firefig OSH-approved positive pressure self-contained breat azardous combustion or decomposition products and combustion or decomposition products and combustion or leak, individuals involved in spill pills (e.g., < 1 gallon (3.8 L)) wear appropriate prediction (open doors and windows) and secure a material and place into appropriate closed container(seand federal regulations. Wash all affected areas are one any contaminated clothing and wash thoroughly be possible. (e.g., ≥ 1 gallon (3.8 L)), deny entry to all unput go, sand or earth). Transfer liquid to containers for record proper disposal. Remove contaminated clothing or proper disposal. Remove contaminated clothing or spills and cleaning runoffs out of municipal sewers are the product with the product. Avoid breathing variety washaust ventilation, fans). After use, wash hands and	besition products such as oxides of suse a heavy water stream. breathing apparatus (pressure-for cooling exposed containers. fire-fighting water from entering or dilution from entering sewers, ghters must use full bunker gear thing apparatus to protect against oxygen deficiencies. SURES cleanup must wear appropriate Personal ersonal protective equipment (e.g., goggles all sources of ignition. Remove spilled mass) for disposal. Dispose of properly in accorded outside of container with plenty of warm before reuse. Protected individuals. Dike and contain spill covery or disposal and solid diking material to promptly and wash affected skin areas with and open bodies of water. MATION pors of this product. Use in a well-ventilated exposed skin with soap and water. Do not ar before eating, drinking or smoking and whater.	s, gloves sterial wi dance wi water ar with ine o separa soap ar



11.5

Suspected Carcinogen

SAFETY DATA SHEET

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Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, GHS & EU Standards SDS Revision: 1.1 SDS Revision Date: 12/14/2019 8. EXPOSURE CONTROLS & PERSONAL PROTECTION OTHER Exposure Limits: OSHA 8 1 ppm (mg/m³) CHEMICAL NAME(S) TLV STEL ES-TWA PEAK PEL STEL IDLH STEL **DIETHANOLAMINE** NA NA (3) 13 NF NA NA NA 8.2 Ventilation & Engineering When working with large quantities of product, provide adequate ventilation (e.g., local exhaust ventilation, fans), to keep exposure below the airborne exposure limits. Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes. 8.3 Respiratory Protection: No special respiratory protection is required under typical circumstances of use or handling. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR §1910.134, or applicable U.S. state regulations, or the appropriate standards of Canada, its provinces, E.C. member states, or Australia. 8.4 Eve Protection: Wear protective eyewear (e.g., safety glasses with side-shield) at all times when handling this product. Always use protective eyewear when cleaning spills or leaks. Contact lenses pose a special hazard; soft lenses may absorb and concentrate irritants. 8.5 Hand Protection: If anticipated that prolonged & repeated skin contact will occur during use of this product, wear latex or rubber gloves for routine industrial use. If necessary, refer to U.S. OSHA 29 CFR §1910.138, the appropriate standards of Canada, of the E.C. member states. 8.6 Body Protection: No special body protection is required under typical circumstances of use and handling. Wear appropriate protective clothing to prevent skin contact, (boots, lab coat, apron, coveralls) as needed. If necessary, refer to appropriate standards of Canada, the E.C. member states, or U.S. OSHA. 9. PHYSICAL & CHEMICAL PROPERTIES 9.1 Appearance: Brown liquid. 9.2 Mild, earthy odor. 9.3 Odor Threshold: NA 9.4 NA 9.5 Melting Point/Freezing Point: NA 9.6 Initial Boiling Point/Boiling > 100 °C (> 212 °F) Range: 9.7 Flashpoint > 93.9 °C (> 200 °F) 9.8 Upper/Lower Flammability NA 9.9 Vapor Pressure: NA 9.10 Vapor Density NA 9.11 Relative Density: 0.991 9.12 Solubility: NA 9.13 Partition Coefficient (log Pow): NA 9.14 Autoignition Temperature: NA 9.15 Decomposition Temperature: NA 9.16 Viscosity: NA 9.17 Other Information: < 1 % 10. STABILITY & REACTIVITY 10.1 Stability: Stable under ambient conditions when stored properly. 10.2 Hazardous Decomposition If exposed to extremely high temperatures, products of thermal decomposition may include irritating vapors and toxic Products: gases (e.g., oxides of carbon & nitrogen). 10.3 Hazardous Polymerization: Will not occur. 10.4 Conditions to Avoid Exposure to, or contact with, extreme temperatures, incompatible chemicals. 10.5 Incompatible Substances: Strong acids or alkalis. 11. TOXICOLOGICAL INFORMATION Absorption: YES 11.1 Routes of Entry: Inaestion: 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. Diethanolamine – LD₅₀ (oral, rat): 0.6 μL/kg. Acute Toxicity: 11.3 May cause an allergic skin reaction. Causes eye irritation. May be harmful if swallowed and enters airways 11.4 Chronic Toxicity None reported by the manufacturer.

Diethanolamine is listed on the IARC Group 2B list (Possibly Carcinogenic to Humans).



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	1	11. TOXICOLOGICAL INFORMATION – cont'd	
11.6	Reproductive Toxicity:	This product is not reported to produce reproductive toxicity in humans.	
	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.	
11 7	Reproductive Toxicity: Irritancy of Product:	This product is not reported to produce reproductive toxicity in humans.	
11.7	Biological Exposure Indices:	See Section 4.2 NE	
11.9	Physician Recommendations:	Treat symptomatically.	
	- Hydrodan i todominonadalono.	Treat Symptomatically.	
		12. ECOLOGICAL INFORMATION	
12.1	Environmental Stability:	Long-term ecological studies have not been conducted for this product.	
12.2	Effects on Plants & Animals:	There are no specific data available for this product. An environmental fate analysis has not been conducted or specific product.	n this
12.3	Effects on Aquatic Life:	Diethanolamine - LC₅₀ (Lepomis macrochirus, 96h): 2,100 mg/L; LC₅₀ (Daphnia magna, 48h): 9.1 mg/L.	
		42 DIODOCAL CONCIDEDATIONS	
	I	13. DISPOSAL CONSIDERATIONS	
13.1	Waste Disposal:	Review current local, state and federal laws, codes, statutes and regulations to determine current status appropriate disposal method for the ingredients listed in Section 3. Dispose of in accordance with local, state, prov and federal laws and regulations. Disposal of hazardous waste must be through by a licensed treatment, storage disposal facility (TSDF).	vincia
13.2	Special Considerations:	Contact the federal, state or provincial environmental authority to determine suitability for recycling and or p disposal requirements.	rope
		44	
		14. TRANSPORTATION INFORMATION	
	pasic description (ID Number, pasic description (ID Number, passing land)	proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional descriptive inform ICAO, IMDG and the CTDGR.	matior
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	
		45 DECLII ATODY INCODMATION	
45.4		15. REGULATORY INFORMATION	
15.1	SARA Reporting Requirements: SARA TPQ:	This product contains <u>Diethanolamine</u> , a substance subject to SARA Title III, Section 313 reporting requirements.	
15.2 15.3		There are no specific Threshold Planning Quantities for the components of this product.	
15.4	TSCA Inventory Status: CERCLA Reportable Quantity:	The components of this product are listed on the TSCA Inventory.	
15.4	Other Federal Requirements:	NA NA	
15.6	Other Canadian Regulations:		
15.7	State Regulatory Information:	Diethanolamine is listed on the following state criteria list(s): Florida Toxic Substances List (FL), Massachu Hazardous Substances List (MA), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List Pennsylvania Right-to-Know List (PA), Washington Permissible Exposures List (WA). Diatomaceous Earth, Uncal is listed on the following state criteria list(s): MN, WA. No other ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the follo state criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Substances List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substal (NY), Pennsylvania Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazar	owing Toxi (MI)



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Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, GHS & EU Standards SDS Revision Date: 12/14/2019 SDS Revision: 1.1 15. REGULATORY INFORMATION 15.8 Other Requirements: All components are either listed on the U.S. TSCA inventory or are not regulated under TSCA under 40 CFR § 720.30. Listed on AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on KECI (Korean Existing Chemicals Inventory) New Zealand Inventory of Chemicals (NZIoC) Registration Status: CAS 7732-18-5: Maybe used as a single component chemical under an appropriate group standard CAS 84012-43-1: Maybe used as a single component chemical under an appropriate group standard CAS 61790-53-2: Maybe used as a single component chemical under an appropriate group standard HSR003539 CAS 4719-04-4: Maybe used as a single component chemical under an appropriate group standard CAS 61790-53-2: CAS 111-42-2: HSR002962 NZIoC Classification: 6.5B; N.O.S. (Subsidiary Hazard) - HSR002624 Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) 16. OTHER INFORMATION 16.1 Other Information: WARNING! MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSE EYE IRRITATION. Avoid breathing mist/spray. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. If on skin: Wash with plenty of soap and water. Specific treatment: See section 4.1 of the Safety Data Sheet. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. KEEP OUT OF REACH OF CHILDREN. 16.2 Terms & Definitions: See last page of this Safety Data Sheet. This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other 16.3 Disclaimer: 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. 16 4 Prepared for: **Petra Oil Company** 50 Jacobs Lane Ngaruawahia 3792, New Zealand Tel: +64 (21) 771 703 Email: agacita@petraoilco.com **Smarter Sorting** 16.5 Prepared by: 2900 E. Cesar Chavez Street **SMARTER** Austin, TX 78702 USA

SORTING

Tel: +1 (512) 593-2594

E-mail: support@smartesorting.com https://www.smartersorting.com



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DEFINITION OF TERMS

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

GENERAL INFORMATION:

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.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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



PERSONAL PROTECTION RATINGS:

Α			
В			
С			
D		THE NAME OF THE PERSON OF THE	
Ε			
F		HA.	

G				
Н				
ı				
J			9	
K	9			
Х	Consult y special h	our supe andling d	rvisor or irections.	SOPs for



OTHER STANDARD ABBREVIATIONS:

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

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILI	FLAMMABILITY LIMITS IN AIR:		
Autoignition Temperature Minimum temperature required to initiate combustion in air with no 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	FLAMMABILITY
1	Slight Hazard	\ \
2	Moderate Hazard	REACTIVITY
3	Severe Hazard	
4	Extreme Hazard	
ACD	Acidic	
ALK	Alkaline	
COR	Corrosive	□ / ₹₩ >
W	Use No Water	HEALTH 🔪
ох	Oxidizer	SPECIAL
TREFOIL	Radioactive	PRECAUTIONS

TOXICOLOGICAL INFORMATION:

LD ₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals
LC ₅₀	Lethal concentration (gases) which kills 50% of the exposed animal
ppm	Concentration expressed in parts of material per million parts
TDio	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TDio, LDio, & LDo or	Lowest dose (or concentration) to cause lethal or toxic effects
TC, TCo, LCio, & LCo	
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances
BCF	Bioconcentration Factor
TLm	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:

0	((2)	(**)	\bigcirc	®		
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:

		®	\Diamond	(Pa)		\Diamond		*
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment