

Page 1 of 8 **POC-9017**

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.1	Product Name:	PETRA	BLASTER											
.2	Chemical Name:	Aerosol												
.3	Synonyms:	9017												
.4	Trade Names:	Petrablaster	r											
.5	Product Use:	Adhesive												
6	Distributor's Name:	Petra Oil NZ												
7	Distributor's Address:		_ane, Ngaruawa											
.8	8 Emergency Phone: NZ NATIONAL POISONS CENTRE (0800) 764 766													
.9	Business Phone / Fax:	Tel: +64 (21	1) 771 703											
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.1	Hazard Identification:	This produc	ct is classified						as D	ANGE	ROUS	GOO	DS ac	cording to
			n criteria of WHS				,	- 4114	uo -			-	, 20 ac	ooranig to
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			KIN IRRITATIO											
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		repeated ex	posure.											
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			ain special instri											
			tood. P210 - K											
			o smoking. P2	11 - Do not										
		Pressurized container: Do not pierce or burn, even after use. P260 - Do not breathe fumes/mist/vapor/spray. P264 - Wash affected areas thoroughly after handling. P270 - Do not eat,												
				not pierce	or bur	n, eve	n afte	er use). P	260 -	Do r	not b	reathe	X
		fumes/mist/		o not pierce 264 - Wash a	or burn	n, ever	n afte orough	er use ily afte	e. P rhand	260 - Iling. I	Do r - 270	not b Do n	reathe ot eat,	X
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			4. FIRST AID MEASURES				
1.1	First Aid:	Ingestion:	Rinse mouth. DO NOT INDUCE VOMITING. Cont telephone number for assistance and instructions. If label where possible). If vomiting occurs spontaneously the risk of aspiration.	you feel u	nwell, seek medical adv	ice (sh	ow t
		Eyes:	Remove contact lenses, if present and easy to do. Conceyes thoroughly with copious amounts of water for at leading complete flushing. If the eyes or face become swolled emergency room immediately.	east 15 mir	nutes, holding eyelid(s) o	pen to	ensu
		<u>Skin</u> :	Remove contaminated clothing and wash affected ar and/or the skin reaction worsens, contact a physician until after it has been properly cleaned.	immediatel	y. Do not wear contami	nated o	lothi
		<u>Inhalation</u> :	Remove victim to fresh air at once. Under extreme respiration. Seek immediate medical attention.				
4.2	Effects of Exposure:	Ingestion:	Irritation to the gastrointestinal tract. This material can cause lung damage.	enter the lu	ngs during swallowing o	vomiti	ng a
		Eyes: Skin:	Irritation upon direct contact. Symptoms may include sti Repeated exposure to this material can result in ab hazard. Toxic in contact with skin. Causes skin irritation	sorption th	-		hea
		<u>Inhalation</u> :	Vapors of this product may be moderately irritating to the system. Symptoms of overexposure can include could breathing. Inhalation of concentrated vapors can of drowsiness, dizziness, headaches, nausea). Odor may may occur.	ghing, whe ause centr	ezing, nasal congestion, al nervous system dep	and d ressior	ifficu 1 (e.
3	Symptoms of Overexposure:	Ingestion:	Nausea, intestinal discomfort, vomiting and/or diarrhea.				
		Eyes:	Overexposure in eyes may cause redness, itching and	•	to the Constant of the Constant of the Constant		
		Skin:	Symptoms of skin overexposure may include redness, i	-	irritation of affected area	S.	
4	Acute Health Effects:	Inhalation:	Shortness of breath. May cause drowsiness or dizzines lowed. Swallowing a small quantity of this material will res		us hoolth hazard Mada	oto irrit	otion
-	Acute Fleatiff Effects.		kin near affected areas. Additionally, high concentration				
.5	Chronic Health Effects:	may produce kidney and nervous syst of alcoholic b	of damaging fertility or the unborn child. Causes damage e irritation and dermatitis. Overexposure to this materia nervous system. Over exposure to solvents has been tem according to reports. Deliberated ingestion or inhalat beverages enhances toxic effects.	l or its con associated	nponents may cause da I to permanent damage	mage t to bra	o liv in a
6	Target Organs:	Eyes, Skin, I					
1.6	Medical Conditions Aggravated by Exposure:		h pre-existing skin disorders or impaired pulmonary, er function may be more susceptible to the effects of	HEALTH			2
7		I Mariey or hiv		FLAMMA	ARII ITV		4
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.7		this product.		PHYSICA PROTEC	AL HAZARDS CTIVE EQUIPMENT		0
			5. FIREFIGHTING MEASURES	PHYSICA PROTEC EYES	AL HAZARDS CTIVE EQUIPMENT SKIN LUNGS		0
4.7	Fire & Explosion Hazards:	WARNING! burst at ten Aerosols ma complete. Of the heat of fi Keep away high tempera	5. FIREFIGHTING MEASURES EXTREMELY FLAMMABLE AEROSOL. Level 1 Aero reperatures above 120 °F. Cool uninvolved containers by be projectile hazards when bursting. If aerosols are becontainers may rupture and release flammable liquids of the containers cool by spraying them with water unfrom heat, lit cigarettes, sparks & open flame. Keep containers, may produce hazardous decomposition products.	PHYSICA PROTEC EYES DISSOI (NFPA rs to previoursting, star r/or expose titl the fire h ntainer clos	30B). Aerosols may ent possible bursting. y clear until bursting is d gases if exposed to las been extinguished. sed. When exposed to		0
		WARNING! burst at ten Aerosols ma complete. C the heat of fi Keep away high temper CO, CO ₂) an For small fir spray to coo	5. FIREFIGHTING MEASURES EXTREMELY FLAMMABLE AEROSOL. Level 1 Aero nperatures above 120 °F. Cool uninvolved containe by be projectile hazards when bursting. If aerosols are boontainers may rupture and release flammable liquids o bre. Keep containers cool by spraying them with water un from heat, lit cigarettes, sparks & open flame. Keep co	PHYSICA PROTEC EYES DISSOI (NFPA rs to previoursting, stay r/or expose till the fire h ntainer close s such as collcohol-resis	30B). Aerosols may ent possible bursting. y clear until bursting is d gases if exposed to has been extinguished. Sed. When exposed to exide of carbon (e.g., estant foam. Use water		0



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		6. ACCIDEN	TAI D	FLEA	SE ME	VSIIE	DES				
6.1	Spills:							t		. Doron	nal Dratastiva
0.1	Spills.	Before cleaning any spill or lease Equipment.	ak, indivi	duais inv	voivea in	spili ciea	inup mus	t wear a	ppropriat	e Perso	nai Protective
	For <u>small spills</u> (e.g., < 1 gallon (3.8 L)) wear appropriate personal protective equipment (e.g., gogg									aales aloves).	
		Maximize ventilation (open doors and windows) and secure all sources of ignition. Remove spilled material wi									
			absorbent material and place into appropriate closed container(s) for disposal. Dispose of properly in accordance with								
		local, state and federal regulation						ontainer	with pler	ity of wa	arm water and
		soap. Remove any contaminated	d clothing	and was	sh thoroug	hly before	e reuse.				
		For <u>large spills</u> (e.g., ≥ 1 gallor									
		material (e.g., sand or earth). U									
		recovery or disposal and solid clothing promptly and wash affective.									
		sewers and open bodies of wate		areas wi	illi Suap ai	iu water.	iveeh sh	ilis ariu ci	earing it	1110115 0	ut of municipal
		compression and open bodies of mate	•								
		7. HANDLING	& STO	ORAG	E INFO	ORMA	TION				
7.1	Work & Hygiene Practices:	Avoid prolonged contact with the	e produc	t. Avoid	breathing	vapors	of this pro	oduct. U	se in a v	vell-ven	ilated location
		(e.g., local exhaust ventilation, fa	,	er use, w	ash hands	and exp	osed skin	with soa	p and wa	ater. Do	not eat, drink
		or smoke while handling product.									
7.2	Storage & Handling:	Keep this material away from he									
		use. Store containers in a cool,									
		Storage temperature: 32-120 °F	`	;). Take	precaution	nary mea	sures aga	ainst stati	c dischai	ge. St	ore away from
7.3	Special Precautions:	incompatible materials (see Sect									
7.5	Opeciai i recautions.	Do not breathe fumes/mist/vapor	s/spray.								
		8. EXPOSURE CONT	ROLS	& PE	RSON	AL PF	ROTEC	CTION			
8.1	Exposure Limits:		AC			NOHSC			OSHA		OTHER
	ppm (mg/m ³)	CHEMICAL NAME(C)	T1.V	CTEL	EC TIMA	ES-	ES-	DEL	ett.	IDLU	
		n-HEXANE	TLV 50	1000	(20)	STEL 72	PEAK NF	PEL 500	STEL NA	1100	50 NIOSH
		ACETONE	500	750	(500)	1185	NF	1000	NA	2500	590 NIOSH
		BUTANE	1000	900	(800)	1900	NF	800	900	NA	390 NIOSI I
		PROPANE	1000	NA	NF	NF	NF	1000	NA	2100	
		TOLUENE	50	300	(50)	191	NF	200	300	500	
8.2	Ventilation & Engineering	When working with large quanti	ties of pr				ntilation (l exhaus	t ventila	tion, fans), to
	Controls:	keep exposure below the airborr case of exposure to eyes.	ne expos	ure limits	. Ensure	that an e	yewash s	tation, sir	nk or was	shbasin	is available in
8.3	Respiratory Protection:	No special respiratory protection	is requi	red unde	er typical c	ircumsta	nces of u	se or har	ndling. I	fnecess	sary,
		use only respiratory protection a	uthorized	per U.S	. OSHA's	requirem	ent in 29	CFR §19	10.134, d	or applic	able
		U.S. state regulations, or the	appropria	te stand	lards of C	canada, i	its provinc	ces, E.C.	membe	r states	s, or
		Australia.									
8.4	Eye Protection:	Wear protective eyewear (e.g.,									duct.
		Always use protective eyewear			oills or lea	ks. Con	tact lense	s pose a	special	hazard;	soft
0.5	Hand Dustantions	lenses may absorb and concentr			. (. 91						_
8.5	Hand Protection:	If anticipated that prolonged & re									
		gloves for routine industrial use standards of Canada, of the E.C.			reier to U	.s. Usn.	A 29 CF	× 31910.	iso, the	approp	nate
8.6	Body Protection:	No special body protection is re			cal circum	etances o	of use and	d handling	n Wear	annron	riate
		protective clothing to prevent ski									
		to appropriate standards of Cana		, ,	,		,			,	
			$\mathbf{v} \sim \mathbf{H}$	⊢вліС'/	71 DD1	DPFR	HES				
	T-	9. PHYSICAL	а Сп		AL FIN	<u> </u>					
9.1	Appearance:	9. PHYSICAL Aerosol. Pale yellow liquid.	а Сп		AL FIN	J					
9.1 9.2	Appearance: Odor:		а Сп		AL FIN	J					
	1	Aerosol. Pale yellow liquid.	а Сп		AL FIN	<u> </u>					
9.2	Odor:	Aerosol. Pale yellow liquid. Strong solvent odor.	<u> « СП</u>		AL FIN						
9.2	Odor: Odor Threshold:	Aerosol. Pale yellow liquid. Strong solvent odor. NA	<u>« Спі</u>		AL FIX						
9.2 9.3 9.4	Odor: Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling	Aerosol. Pale yellow liquid. Strong solvent odor. NA NA NA	& CHI		AL FIX						
9.2 9.3 9.4 9.5 9.6	Odor: Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range:	Aerosol. Pale yellow liquid. Strong solvent odor. NA NA NA NA 56.05 °C (132.89 °F)	& CHI		AL FIX						
9.2 9.3 9.4 9.5 9.6	Odor: Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint:	Aerosol. Pale yellow liquid. Strong solvent odor. NA NA NA 56.05 °C (132.89 °F) -104.4 °C (-156.0 °F)	& CHI		AL FRO						
9.2 9.3 9.4 9.5 9.6	Odor: Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range:	Aerosol. Pale yellow liquid. Strong solvent odor. NA NA NA NA 56.05 °C (132.89 °F)	& CHI		AL FIN						
9.2 9.3 9.4 9.5 9.6	Odor: Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability	Aerosol. Pale yellow liquid. Strong solvent odor. NA NA NA 56.05 °C (132.89 °F) -104.4 °C (-156.0 °F)	& CHI		AL FIN						
9.2 9.3 9.4 9.5 9.6 9.7 9.8	Odor: Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits:	Aerosol. Pale yellow liquid. Strong solvent odor. NA NA NA 56.05 °C (132.89 °F) -104.4 °C (-156.0 °F) LEL: 2.2%; UEL: 10.1%	& CHI								
9.2 9.3 9.4 9.5 9.6 9.7 9.8	Odor: Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure:	Aerosol. Pale yellow liquid. Strong solvent odor. NA NA NA 56.05 °C (132.89 °F) -104.4 °C (-156.0 °F) LEL: 2.2%; UEL: 10.1% 50-70 psig @ 70 °F, estimated	<u>α </u>		AL FIN						
9.2 9.3 9.4 9.5 9.6 9.7 9.8 9.9 9.10	Odor: Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Density:	Aerosol. Pale yellow liquid. Strong solvent odor. NA NA NA 56.05 °C (132.89 °F) -104.4 °C (-156.0 °F) LEL: 2.2%; UEL: 10.1% 50-70 psig @ 70 °F, estimated NA	<u>α </u>								



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		9. PHYSICAL & CHEMICAL PROPERTIES
9.14	Autoignition Temperature:	341.29 °C (646.31 °F)
9.15	Decomposition Temperature:	NA
9.16	Viscosity:	< 15 cPs
9.17	Other Information:	VOC: 63.54% estimated
		10. STABILITY & REACTIVITY
10.1	Stability:	Flammable aerosol. Contains gas under pressure; may explode if heated. Extreme risk of explosion by shock, friction, fire or other sources of ignition; however, 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 to, or contact with, extreme temperatures, incompatible chemicals, direct sunlight, 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: YES
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. $n\text{-}Hexane - LD_{50}$ (oral, rat): 28,710 mg/kg; LD_{50} (dermal, rabbit) 3,000 mg/kg; LC_{50} (inh, rat, 4h) 48,000 ppm; $\underline{Acetone} - LD_{50}$ (oral, rat): 8,450 mg/kg; LD_{50} (dermal, rabbit) > 20,000 mg/kg; LC_{50} (inh, rat, 4h) > 76.0 mg/L; \underline{Butane} : LC_{50} (inh, rat, 4h): 68,000 ppm; $\underline{Propane}$: LC_{50} (inh, rat, 4h): 800,000 ppm; $\underline{Toluene} - LD_{50}$ (oral, rat): 5,580 mg/kg; LD_{50} (dermal, rabbit) > 5,000 mg/kg; LC_{50} (inh, rat, 4h) > 28.1 mg/L.
11.3	Acute Toxicity:	May cause drowsiness and dizziness. Causes skin irritation. Causes serious eye irritation. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways. Narcotic effects. Use of alcoholic beverages enhances toxic effects. Deliberate ingestion or inhalation of this product can be dangerous or fatal.
11.4	Chronic Toxicity:	May cause damage to organs through prolonged or repeated exposure. Repeated or prolonged skin contact may produce irritation and dermatitis. Persons with pre-existing skin disorders or impaired pulmonary, kidney or liver function may be more susceptible to the effects of this product. Suspected of damaging fertility. Suspected of damaging the unborn child.
11.5	Suspected Carcinogen:	The following substance(s) is/are listed on the IARC Group 3 list (Not Classifiable as to its Carcinogenicity to Humans): Toluene.
11.6	Reproductive Toxicity:	Toluene is suspected of damaging fertility or the unborn child and is listed on the California Prop 65 (reproductive) list.
	Mutagenicity:	Liquefied Petroleum Gas is listed as a suspected mutagen.
	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:	Toluene 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: Physician Recommendations:	NE In general, gastric emptying is not indicated except in very select cases where a history of a recent large ingestion is obtained. Activated Charcoal: administer charcoal as a slurry (240 ml water/30 g charcoal). Usual dose: 25 to 100 g in adults/adolescents, 25 to 50 g in children (1 to 12 years), and 1 g/kg in infants less than 1 year old. In symptomatic patients (coughing, choking, tachypnea, etc.), monitor pulse oximetry and blood gases to assure adequate ventilation and obtain a baseline chest x-ray. Determine vital signs regularly. Admit the patient for observation. Acute lung injury: maintain ventilation and oxygenation and evaluate with frequent arterial blood gas or pulse oximetry monitoring. Early use of peep and mechanical ventilation may be needed.
		12. ECOLOGICAL INFORMATION
12.1	Environmental Stability:	Terrestrial Fate: Based on a classification scheme, an estimated K _{oc} value of 150, determined from a structure estimation method, indicates that n-hexane is expected to have high mobility in soil. Volatilization of n-hexane from moist soil surfaces is expected to be an important fate process given an estimated Henry's Law constant of 1.83 atm-cu m/mole, determined from its vapor pressure of 153 mm Hg and water solubility of 9.5 mg/l. The potential for volatilization of n-hexane from dry soil surfaces may exist based upon its vapor pressure. Screening studies have shown that n-hexane is biodegradable under aerobic conditions, and these studies suggest that this compound will biodegrade in soil; however, volatilization from soil is expected to be the dominant environmental fate process of n-hexane. Atmospheric Fate: According to a model of gas/particle partitioning of semi-volatile organic compounds in the atmosphere, propane, which has a vapor pressure of 7150 mm Hg at 25 deg C, is expected to exist solely as a gas in the ambient atmosphere. Gas-phase propane is degraded in the atmosphere by reaction with photochemically-produced hydroxyl radicals; the half-life for this reaction in air is estimated to be 14 days, calculated from its rate constant of 1.15 x 10 ⁻¹² cu cm/molecule-sec at 25 deg C. Propane does not contain chromophores that absorb at wavelengths >290 nm and therefore is not expected to be susceptible to direct photolysis by sunlight. Partition Coefficient n-Octanol/Water (Log P _{ow}): 2-Methylpentane: 3.74; Acetone: -0.24; Butane: 2.89; n-Hexane: 3.9;
		wavelengths >290 nm and therefore is not expected to be susceptible to direct photolysis by sunlight.



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		12. ECOLOGICAL INFORMATION				
12.2	Effects on Plants & Animals: Effects on Aquatic Life:	According to a classification scheme, an estimated BCF of 200, from a log K _{ow} of 3.90 equation, suggests the potential for bioconcentration in aquatic organisms is high. Screening n-Hexane is biodegradable under aerobic conditions, and these studies suggest that this conwater; however, volatilization from water surfaces is expected to be the dominant environ hexane. Atmospheric Fate: according to a model of gas/particle partitioning of semi-volatile or atmosphere, n-Hexane, which has a vapor pressure of 153 mm Hg at 25 °C, is expected to the ambient atmosphere. Vapor phase n-Hexane is degraded in the atmosphere by reac produced hydroxyl radicals; the half-life for this reaction in air is estimated to be 3 days constant of 5.61 x 10-12 cu cm/molecule-sec at 25 °C. n-Hexane: LC ₅₀ (Pimephales promelas, 96h): 25 mg/L; EC ₅₀ (Daphnia magna, 48h):	g studies have shown that mpound will biodegrade in mental fate process of n-ganic compounds in the exist solely as a vapor in tion with photochemically calculated from its rate			
		<u>n-Hexane</u> : LC ₅₀ (Pimephales promeias, 9on): 25 mg/L; EC ₅₀ (Daphnia magna, 48h): 50 mg/L; <u>Acetone</u> : LC (Oncorhynchus mykiss, 96h): 5,540 mg/L; EC ₅₀ (Daphnia magna, 48h): 10 mg/L; <u>Toluene</u> : LC ₅₀ (Lepomis macrochirus): 17.0 mg/L; EC ₅₀ (Daphnia magna, 48h): 313 mg/L. <u>Aquatic Fate</u> : based on a classification scheme an estimated K _{0c} value of 150, determined from a structure estimation method, indicates that <u>n-Hexane</u> is not expected to adsorb to suspended solids and sediment. Volatilization from wat surfaces is expected based upon an estimated henry's law constant of 1.83 atm-cu m/mole, determined from a vap pressure of 153 mm Hg and water solubility of 9.5 mg/l. Using this henry's law constant and an estimation method volatilization half-lives for a model river and model lake are 1 hour and 3 days, respectively.				
		13. DISPOSAL CONSIDERATIONS				
13.1	Waste Disposal:	Review current local, state and federal laws, codes, statutes and regulations to deteral propriate disposal method for the ingredients listed in Section 3. Dispose of in accordance and federal laws and regulations. Disposal of hazardous waste must be through by a licer disposal facility (TSDF).	with local, state, provincial			
13.2	Special Considerations:	Aerosols may be managed as Universal Waste in some states (e.g., CA, CO, MN, etc.). Co provincial environmental authority to determine suitability for recycling and or proper disposal U.S. EPA RCRA Characteristic Waste (Ignitable): D001				
		14. TRANSPORTATION INFORMATION				
The	pasic description (ID Number r	proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Ad	ditional descriptive information			
	be required by 49 CFR, IATA/I		ditional descriptive information			
14.1	49 CFR (GND):	UN1950, AEROSOLS, 2.1 (LTD QTY, IP VOL ≤ 1.0 L); or CONSUMER COMMODITY, ORM-D (IP VOL ≤ 1.0 L) – until 12/31/20				
14.2	IATA (AIR):	UN1950, AEROSOLS, FLAMMABLE, 2.1 (LTD QTY, IP VOL ≤ 500 mL); or ID8000, CONSUMER COMMODITY, 9 (IP VOL ≤ 500 mL)	or v			
14.3	IMDG (OCN):	UN1950, AEROSOLS, 2.1 (LTD QTY, IP VOL ≤ 1.0 L)				
14.4	TDGR (Canadian GND):	UN1950, AEROSOLS, 2.1 (LTD QTY, IP VOL ≤ 1.0 L)				
14.5	ADR/RID (EU):	UN1950, AEROSOLS, 2.1 (LTD QTY, IP VOL ≤ 1.0 L); Transport Cat: 2; Tunnel Code: (D)				
14.6	SCT (MEXICO):	UN1950, AEROSOLES, 2.1 (CANT. LTDA., IP VOL ≤ 1.0 L)				
14.7	ADGR (AUS):	UN1950, AEROSOLS, 2.1 (LTD QTY, IP VOL ≤ 1.0 L)				
		15. REGULATORY INFORMATION				
15.1	SARA Reporting Requirements:	This product contains Toluene, a substance subject to SARA Title III, Section 313 reporting re	equirements.			
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:	<u>Acetone</u> : 5,000 lbs (2,270 kg); <u>Toluene</u> : 1,000 lbs (454 kg); <u>n-Hexane</u> : 5,000 lbs (2,270 kg)				
15.5	Other Canadian Requirements:	NA	CDC CDC			
15.6	Other Canadian Regulations:	This product has been classified according to the hazard criteria of the CPR and the contains all of the information required by the CPR. The components of this product are listed the DSL/NDSL. None of the components of this product are listed on the Priorities Substatist. WHMIS B5, D2B (Flammable Aerosol, Other Toxic Effects).	ed on			



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

SDS Revision: 1.1

SDS Revision Date: 12/14/2019

15. REGULATORY INFORMATION - cont'd

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>n-Hexane</u> is listed on the following state criteria list(M): MA, MN, PA, WA.

No other 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).

15. REGULATORY INFORMATION - cont'd

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 67-64-1: HSR000983 CAS 106-97-8: HSR000989 CAS 74-98-6: HSR001010 CAS 110-54-3: HSR001166 CAS 108-88-3 HSR001227

NZIoC Classification: 2.1.2A, 6.1D, 6.1E, 6.3B, 6.4A, 6.8B; Aerosols (Flammable) – HSR002515

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

♠

WARNING: This product can expose you to chemicals including <u>Toluene</u> which is known to the State of California to cause reproductive harm.

16. OTHER INFORMATION

16.1 Other Information: DANGER! EXTREMELY FLAMMABLE AEROSOL. PRESSURIZED CONTAINER: MAY BURST IF HEATED. CAUSES SKIN IRRITATION AND SERIOUS EYE IRRITATION. MAY CAUSE DROWSINESS OR DIZZINESS. SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD. MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not breathe gas. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. KEEP OUT OF REACH OF CHILDREN.



WARNING: This product can expose you to chemicals including <u>Toluene</u> which is known to the State of California to cause reproductive harm.

		California to cause reproductive harm.			
16.2	Terms & Definitions:	ee last page of this Safety Data Sheet.			
16.3	Disclaimer:	government regulations must be reviewed for ap & Petra Oil Company's knowledge, the informat accuracy, suitability or completeness is not guar provided. The information contained herein relationships to the information contained herein relationships the information contained herein relations	SHA's Hazard Communication Standard, 29 CFR §1910.1200. Other plicability to this product. To the best of ShipMate's, Smarter Sorting's ion contained herein is reliable and accurate as of this date; however, anteed and no warranties of any type, either expressed or implied, are ates only to the specific product(s). If this product(s) is combined with be considered. Data may be changed from time to time. Be sure to		
16.4	Prepared for:	Petra Oil Company			
		50 Jacobs Lane	DETDA		

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 2900 E. Cesar Chavez Street Austin, TX 78702 USA Tel: +1 (512) 593-2594

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





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

SDS Revision: 1.1

SDS Revision Date: 12/14/2019

15. REGULATORY INFORMATION - cont'd

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 67-64-1: HSR000983 CAS 110-54-3: HSR001166

CAS 8042-47-5: Maybe used as a single component chemical under an appropriate group standard

CAS 67476-85-7 HSR001009

NZIoC Classification: 2.1.2A, 6.1D, 6.1E, 6.3B, 6.4A, 6.8B; Aerosols (Flammable) – HSR002515

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)



WARNING: This product can expose you to chemicals including <u>Toluene</u> which is known to the State of California to cause reproductive harm.

16. OTHER INFORMATION

16.1	Other Information:	DANGER! EXTREMELY FLAMMABLE AEROSOL. PRESSURIZED CONTAINER: MAY BURST IF HEATED.
		CAUSES SKIN IRRITATION AND SERIOUS EYE IRRITATION. MAY CAUSE DROWSINESS OR DIZZINESS.
		SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD. MAY CAUSE DAMAGE TO ORGANS
		THROUGH PROLONGED OR REPEATED EXPOSURE. Obtain special instructions before use. Do not handle until all
		safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces No
		smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even
		after use. Do not breathe gas. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear
		protective gloves/protective clothing/eye protection/face protection. If swallowed: Immediately call a poison
		center/doctor. Do NOT induce vomiting. If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and
		keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if
		present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Call a poison
		center/doctor if you feel unwell. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get
		medical advice/attention. Take off contaminated clothing and wash before reuse. Store in a well-ventilated place. Keep
		container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
		KEEP OUT OF REACH OF CHILDREN.

WARNING: This product can expose you to chemicals including <u>Toluene</u> which is known to the State of California to cause reproductive harm.

16.2	Terms & Definitions:	See last page of this Safety Data Sheet.	
16.3	Disclaimer:	government regulations must be reviewed for an & Petra Oil Company's knowledge, the informat accuracy, suitability or completeness is not gual provided. The information contained herein rela	SHA's Hazard Communication Standard, 29 CFR §1910.1200. Other plicability to this product. To the best of ShipMate's, Smarter Sorting's ion contained herein is reliable and accurate as of this date; however, anteed and no warranties of any type, either expressed or implied, are ites only to the specific product(s). If this product(s) is combined with be considered. Data may be changed from time to time. Be sure to
40.4	Donate and Com-		

		other materials, all component properties mus consult the latest edition.
16.4	Prepared for:	Petra Oil Company
		11085 Regency Green Drive
		Cypress, TX 77429 USA
		Tel: +1 (713) 856-5700
		Email: agacita@petraoilco.com
16.5	Prepared by:	Smarter Sorting 2900 E. Cesar Chavez Street Austin, TX 78702 USA

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







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

SDS Revision: 1.1

SDS Revision Date: 12/14/2019

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



PERSONAL PROTECTION RATINGS:

Α			
В			
С			
D		TANK THE PARTY OF	
Е			
F		H.	

G				
Н			H.	
I				
J			TOTAL	
K	9			
Х	Consult y	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	Not Found
SCBA	Self-Contained Breathing Apparatus
Sens	Sensitization
STOT RE	Specific Target Organ Toxicity – Repeat Exposure
STOT SE	Specific Target Organ Toxicity – Single Exposure

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	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)	(**)	\odot	®		
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