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1

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

SDS Revision: 1.1

SDS Revision Date: 12/14/2019

| | | - 1 | DDODUCT | $T \circ COMI$ | | IDENT | IEIC A | τιων | | | | |
|----------------------------------|---|---|--|---|---|--|---|--|---|--|--|---|
| | | | PRODUC | | ANT | IDENI | IFICA | TION | | | | |
| 1.1 | Product Name: | PETRA | OIL ENHA | NCE | | | | | | | | |
| 1.2 | Chemical Name: | Petroleum D | istillates | | | | | | | | | |
| 1.3 | Synonyms: | 1002 | | | | | | | | | | |
| 1.4 | Trade Names: | Petra Oil Enhance | | | | | | | | | | |
| 1.5 | Product Use: | Oil System T | Oil System Treatment | | | | | | | | | |
| 1.6 | Distributor's Name: | Petra Oil NZ | Petra Oil NZ | | | | | | | | | |
| 1.7 | Distributor's Address: | 50 Jacobs La | 50 Jacobs Lane, Ngaruawahia 3792, New Zealand | | | | | | | | | |
| 1.8 | Emergency Phone: | NZ NAT | IONAL PC | DISONS C | FNTR | F (080) | 0) 764 | 766 | | | | |
| 1.9 | Business Phone / Fax: | Tel: +64 (21) | | | | | •/ • • • | | | | | |
| | | 101. 104 (21) | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | | | | | | |
| | 1 | 1 | | ZARDS I | | | | | | | | |
| 2.1 | Hazard Identification: | classification | This product is classified as a HAZARDOUS SUBSTANCE but not as DANGEROUS GOODS according to th classification criteria of WHSR and ADG Code (Australia). DANGER! MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS. Classification: Asp. Tox. 1 | | | | | | | | | |
| 2.2 | Label Elements: | Precautionar or doctor/ph cautiously wi rinsing. P405 | Hazard Statements (H): H304 – May be fatal if swallowed and enters airways. Precautionary Statements (P): P301+P310 – IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P331 – Do NOT induce vomiting. P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P405 – Store locked up. P501 – Dispose of contents/container to licensed treatment, storage, | | | | | | | | | |
| 2.3 | 2.3 Other Warnings: In the event of an exposure or medical inquiry involving this product, please contact a physician or local poisor center, who may seek advice from the U.S. manufacturer, and show them this SDS. If medical advice is needed product container or label at hand. | | | | | | | | | | | |
| | | 2 00 | OMPOSITI | | | | | | 1 | | | |
| | | 3. 60 | | | IKEDI | | | | | | 3. | |
| | | | | | | ACGIH | | EXPOSURE NOHSC | LIMITS IN | AIR (mg/m OSHA | °) | |
| | | | | | | ppm | | ppm | | ppm | | |
| | | | | | | ppin | ES- | ES- ES- | | ppin | | |
| | CAL NAME(S) | CAS No. | RTECS No. | EINECS No. | % | TLV STE | EL TWA | STEL PEAK | | | DLH | OTHER |
| | ICATING OILS (PETROLEUM HYDROTREATED NEUTRAL | | NA | 276-738-4 | 60-100 | (5) (10 | 0) (5) | NA NA | (5) | NA I | NA | OIL MIST |
| | ASED * | HSNO: HSR0 | 02605 | | | | | | | | | |
| | LLATES (PETROLEUM), | 64742-54-7 NA 265-157-1 15-40 (5) (10) (5) NA NA (5) NA NA OIL MIST | | | | | | | | | | |
| HYDROTREATED HEAVY | | HSNO: HSR02605 | | | | | | | | NA I | NA | |
| | | HSNO: HSR0 | 1 | 200-157-1 | 15-40 | (5) (10 |) (5) | NA NA | (5) | NA | NA | |
| PARA | FFINIC * | | 1 | 203-137-1 | 15-40 | (5) (10 |)) (5) | NA NA | (5) | NA | NA | |
| PARA | | | 02605 | • | | | | NA NA | (5) | NA | NA | |
| PARA < 3% | FFINIC * 5 DIMETHYL SULFOXIDE (DI | MSO) per IP346 | 02605 4. | FIRST AII | D MEA | | S | | | | | |
| PARA < 3% | FFINIC * | MSO) per IP346 | D2605 4. I DO NOT INDU assistance an vomiting occu If product gets holding eyelic following use, Remove conta and/or the ski until after it ha | FIRST AII UCE VOMITIN d instructions. rs spontaneou s in the eyes, f d(s) open to e consult a phys aminated cloth in reaction wo as been proper | D MEA G. Conta If you fo sly, keep lush eye nsure co sician or e ing and rsens, co y cleane | ASURE: act Poison eel unwell, victim's he s thoroughl omplete flu emergency wash affec ntact a phy d. | S Control (seek me ad lower ly with cc ishing. I room imi cted area ysician ir | Center or lo dical advice ed (forward pious amou f the eyes mediately. as with soa nmediately. | cal eme e (show) to redu unts of v or face p and v Do not | rgency te the labe uce the ris water for become water. If water co | elepho I whe sk of a at lea e swo disco ontam | one number f re possible). aspiration. ast 15 minute ollen during omfort persis inated clothir |
| PARA < 3% | FFINIC * 5 DIMETHYL SULFOXIDE (DI | MSO) per IP346 | DO2605 4. DO NOT INDU assistance an vomiting occu If product gets holding eyelic following use, Remove conta and/or the ski until after it ha Remove victir respiration. So | FIRST AII UCE VOMITIN Id instructions. rs spontaneou s in the eyes, f d(s) open to e consult a phys aminated cloth in reaction wo as been proper m to fresh air eek immediate | G. Conta If you fo sly, keep lush eye insure cc ician or e ing and 'sens, cc y cleane at once medical | ASURE: act Poison eel unwell, victim's he s thoroughl omplete flu emergency wash affeo ntact a phy d. . Under e attention. | S Control (seek me ead lower ly with co ishing. I room imi cted area ysician ir extreme | Center or lo edical advice ed (forward pious amou f the eyes mediately. as with soa nmediately. conditions, | cal eme e (show) to redu unts of v or face p and v Do not if breat | rgency te the labe uce the ris water for become water. If wear co hing stop | elepho I whe sk of a at lea disco ontam os, pe | one number f ere possible). aspiration. ast 15 minute ollen during omfort persis inated clothin erform artific |
| 2 <u>ARA</u> < 3% | FFINIC * 5 DIMETHYL SULFOXIDE (DI | MSO) per IP346 | DO2605 4. DO NOT INDU assistance an vomiting occu If product gets holding eyelic following use, Remove conta and/or the ski until after it ha Remove victir respiration. So Irritation to the cause lung da | FIRST AII UCE VOMITIN Id instructions. rs spontaneou s in the eyes, f d(s) open to c consult a phys aminated cloth in reaction wo is been proper m to fresh air eek immediate e gastrointestir image. | G. Conta If you fo sly, keep lush eye insure cc icican or e ing and 'sens, cc y cleane at once medical ial tract. | ASURES act Poison eel unwell, victim's he s thoroughl mplete flu emergency wash affeo ntact a phy d. . Under e attention. This materi | S Control (seek me ead lower ly with co ishing. I room imi cted area ysician ir extreme ial can er | Center or lo edical advice ed (forward pious amoi f the eyes mediately. as with soa nmediately. conditions, nter the lung | cal eme e (show) to redu unts of v or face p and v Do not if breat gs durin | rgency te the labe uce the ris water for become water. If wear co hing stop g swallow | elepho I whe sk of a at lea disco ontam os, pe | one number f ere possible). aspiration. ast 15 minute ollen during omfort persis inated clothin erform artific or vomiting an |
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| ARA < 3% 4.1 4.2 4.3 | FFINIC * DIMETHYL SULFOXIDE (D) First Aid: Effects of Exposure: | MSO) per IP346 Ingestion: Eyes: Skin: Inhalation: Ingestion: Eyes: Skin: Inhalation: Eyes: Skin: Inhalation: Eyes: Skin: Moderate irr | d2605 4. DO NOT INDU assistance an vomiting occu If product gets holding eyelic following use, Remove conta and/or the ski until after it ha Remove victir respiration. S Irritation to the cause lung da Irritation upon Mildly irritating symptoms of r Inhalation may and enters airr Nausea, intest Overexposure Symptoms of | FIRST AII UCE VOMITIN d instructions. rs spontaneou s in the eyes, f d(s) open to e consult a phys aminated clott in reaction wo as been proper m to fresh air eek immediate e gastrointestir mage. direct contact. g. Prolonged redness, stingii y cause irritatio ways. tinal discomfor a in eyes may c skin overexpi ause allergic sl and skin nea | D MEA G. Conta If you for sly, keep lush eye nsure co- ician or e ining and rsens, co y cleane at once medical al tract. Symptor or repea ng. on to the t, vomitin ause red osure ma cin reaction r affected | ASURE: act Poison eel unwell, victim's he s thoroughl omplete flu emergency wash affec ntact a phy d. . Under e attention. This materi ns may inc ted skin c respiratory g and/or dia ness, itchir ay include ons (e.g., ra | S Control C seek me ead lower ly with co ishing. I room imi- cted area ysician ir extreme of ial can er clude sting contact c v tract (no iarrhea. ng and wa redness, ashes, w | Center or lo edical advice ed (forward pious amou f the eyes mediately. as with soa nmediately. conditions, nter the lung an result in pse, throat a atering. itching, an elts, dermat | cal eme e (show) to redu unts of v or face p and v Do not if breat gs durin gs durin g, redne n defatt and lung nd irrita itis) in s | rgency te the labe uce the ris water for become water. If wear co hing stop g swallow ss and sw ing, dryir us). May t tion of a ome indiv | elepho I whe sk of a at lea at lea e swo disco ntam ving c ving c ving of toe fat | one number for aspiration. ast 15 minute ollen during of omfort persis inated clothir erform artifici or vomiting ar g. the skin wi al if swallowe ed areas. The s. |
| PARA 4.1 4.2 | FFINIC * DIMETHYL SULFOXIDE (D) First Aid: Effects of Exposure: Symptoms of Overexposure: | MSO) per IP346 Ingestion: Eyes: Skin: Inhalation: Ingestion: Eyes: Skin: Inhalation: Eyes: Skin: Moderate irr drowsiness, | doce of the second seco | FIRST AII UCE VOMITIN d instructions. rs spontaneou s in the eyes, f d(s) open to e consult a phys aminated clott in reaction wo as been proper m to fresh air eek immediate e gastrointestir mage. direct contact. g. Prolonged redness, stingii y cause irritatio ways. tinal discomfor e in eyes may c skin overexpi ause allergic sl and skin nea aches and nau | D MEA G. Conta If you for sly, keep lush eye nsure co- ician or e ining and rsens, co y cleane at once medical al tract. Symptor or repea ng. on to the t, vomitin ause red osure ma cin reaction r affected | ASURE: act Poison eel unwell, victim's he s thoroughl omplete flu emergency wash affec ntact a phy d. . Under e attention. This materi ns may inc ted skin c respiratory g and/or dia ness, itchir ay include ons (e.g., ra | S Control C seek me ead lower ly with co ishing. I room imi- cted area ysician ir extreme of ial can er clude sting contact c v tract (no iarrhea. ng and wa redness, ashes, w | Center or lo edical advice ed (forward pious amou f the eyes mediately. as with soa nmediately. conditions, nter the lung an result in pse, throat a atering. itching, an elts, dermat | cal eme e (show) to redu unts of v or face p and v Do not if breat gs durin gs durin g, redne n defatt and lung nd irrita itis) in s | rgency te the labe uce the ris water for become water. If wear co hing stop g swallow ss and sw ing, dryir us). May t tion of a ome indiv | elepho I whe sk of a at lea at lea e swo disco ntam ving c ving c ving of toe fat | one number for aspiration. ast 15 minute ollen during of omfort persis inated clothir erform artifici or vomiting ar g. the skin wi al if swallowe ed areas. The s. |



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| | | 4. FIRST A | ID MEASU | RES – | cont' | d | | | | | |
|--------------------------|---|---|--|---|---|--|---|--|--|--|---|
| 4.7 | Medical Conditions Aggravated by Exposure: | Pre-existing skin, eye, or respirat | ory disorders. | | | HEALT | 1 | | | | 1 |
| | by Exposure. | | | | | FLAMM | ABILIT | Y | | | 1 |
| | | | | | | PHYSIC | | ZARDS | | | 0 |
| | | | | | ſ | PROTE | | | IENT | | В |
| | | | | | - | EYES | SKIN | | | | |
| | | | | | DF0 | | | | | | |
| E 4 | | | | | | | | | | | |
| 5.1 | Fire & Explosion Hazards: | WARNING! Keep away from he No smoking. If involved in a fire, gases (e.g., CO, CO _X , hydrocarb to a source of ignition and flash b | this product may ons). Vapors of t | decompos his product | e at higl t are hea | h temperat | tures to f | form toxi | с | | |
| 5.2 | Extinguishing Methods: | For small fires, use dry chemic water spray to cool fire-exposed spray, fog or alcohol-resistant for | containers. Wate | er may be i | neffectiv | e. For larg | | | | 1 | |
| 5.3 | Firefighting Procedures: | As with any fire, firefighters MSHA/NIOSH approved or equiv- clothing. Treat as hot oil. Ha degradation may produce oxides should be fought from a safe dis water spray to cool fire-exposed runoff from fire control or dilution natural waterway. | valent self-contair azardous decom of carbon, and/oi stance. Keep cor d surfaces and to | ned breathin position pro- nitrogen, h ntainers coco protect pe | ng appar oducts i nydrocar ol until w ersonal. | ratus (SCE may be re bons and/o rell after th Fight fire | BA) and eleased. or derivative ine fire is upwind. | protective Therma tives. Fire out. Use Prever | e al e e it | | 0 |
| | | 6. ACCIDEN | TAL RELEA | SE ME | ASUF | RES | | | | | |
| 6.1 7.1 7.2 7.3 | Spills: Work & Hygiene Practices: Storage & Handling: Special Precautions: | Before cleaning any spill or lea Equipment. For <u>small spills</u> (e.g., < 1 gallo Maximize ventilation (open doo absorbent material and place inti- local, state and federal regulatio soap. Remove any contaminated For <u>large spills</u> (e.g., ≥ 1 gallon material (e.g., sand or earth). Us recovery or disposal and solid clothing promptly and wash affect sewers and open bodies of water 7. HANDLING Avoid prolonged contact with the (e.g., local exhaust ventilation, fa or smoke while handling product. Keep this material away from the container closed tightly when no empty containers should be hand light sources, or sources of intension Open containers slowly on a state contain residual amounts of this pro- tainer stoures of the spinor of the spinor of the spinor of the spinor of the spinor of the spinor of the spinor of the spinor of the spinor of the spinor of the spinor of the spinor of the s | ak, individuals in on (3.8 L)) wear rs and windows) o appropriate clos ons. Wash all aff d clothing and wa (3.8 L)), deny e se ONLY non-spa diking material t cted skin areas w r. & STORAC e product. Avoid ans). After use, w neat, sparks and ot in use. Empty dled with care. Si se heat. Store aw able surface. Ke | volved in s appropriate and secur sed contain ected areas sh thorough ntry to all u rking tools o separate th soap and E INFCO breathing open flam container ore contain ray from inc ep container | e persor re all so er(s) for s and ou- ly befor- unprotec for recov contain d water. DRMA vapors and exp e. Ope may con- ters in a compatible | nup must nal protect urces of i disposal. ttside of co- e reuse. ted indivic very and cl ers for pri- Keep spil TION of this pro- posed skin n containen tain resid cool, dry lo le material closed wh | ive equi gnition. Dispose ontainer luals. D leanup. oper dis ls and cl duct. U with soa ers slow ual amo ocation, s ls (See S nen not i | pment (e Remove of prope with pler ike and Transfer posal. I leaning r se in a v ip and w ly on a unts of t away fro Section 1 in use. | e.g., gog e spilled erly in ac thy of wa contain liquid to Remove unoffs ou well-vent ater. Do stable s his prod m direct 0). | ggles, mate corda arm wa spill w conta conta ut of m tilated o not e urface uct; th sunlig | gloves). rial with nce with ater and <i>v</i> ith inert iners for minated nunicipal location at, drink . Keep herefore, ht, other |
| | | 8. EXPOSURE CONT | | RSON | | ROTEC | | | | | |
| 8.1 | Exposure Limits: | | | | | | | OSHA | | OTHE | R |
| | ppm (mg/m ³) | CHEMICAL NAME(S) | TLV STEL | ES-TWA | ES- STEL | ES- PEAK | PEL | STEL | IDLH | | |
| | | PETROLEUM NAPHTHA | (5) (10) | (5) | NA | NA | (5) | NA | NA | OIL N | |
| 8.2 | Ventilation & Engineering Controls: | Use general/dilution or local execeeded. Do not use in enclose (e.g., local exhaust ventilation, exposure to eyes. | ed spaces. When | working wit | h large o | quantities of | of produc | ct, provid | e adequ | ate ve | ntilation |
| 8.3 | Respiratory Protection: | Vaporization or misting is not exprotection is not anticipated und airborne concentrations above approved organic vapor respira factors vary depending upon the with OSHA requirements (29 CF | der normal use c applicable work tor equipped wit e type of respirat | onditions a place expo h a dust/m | nd with sure lev nist pre-f | adequate vels are a ïlter shoul | ventilatio anticipate d be us | on. If ele ed, a N ed. Prot | evated IOSH- ection | | |



11.9

Physician Recommendations:

Treat symptomatically.

SAFETY DATA SHEET

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| iopare | | II, WHSR, WHMIS, GHS & EU Standards SDS Revision: 1.1 SDS Revision Date: 12/14/2019 |
|---------|--|---|
| | 8. E | EXPOSURE CONTROLS & PERSONAL PROTECTION – cont'd |
| 3.4 E | Eye 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. Have suitable eye wash water available. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). |
| 1.5 ⊦ | Hand Protection: | Use gloves constructed of chemical-resistant materials such as neoprene or heavy nitrile rubber if frequent or prolonged contact is expected. If necessary, refer to U.S. OSHA 29 CFR §1910.138, the appropriate standards of Canada, or the EU member states. |
| .6 E | Body Protection: | Avoid prolonged and/or repeated skin contact. Use clean and impervious protective clothing (e.g., neoprene or Tyvek [®]). Protective clothing should include long-sleeves, apron, boots and additional facial protection. If necessary, refer to appropriate standards of Canada, the EU member states, or U.S. OSHA. |
| | | 9. PHYSICAL & CHEMICAL PROPERTIES |
|).1 A | Appearance: | Yellow to brown liquid |
| | Odor: | Mild hydrocarbon odor |
| | Odor Threshold: | NA |
| | оН: | NA |
| | Melting Point/Freezing Point: | NA |
| 9.6 li | nitial Boiling Point/Boiling Range: | 222-247 °C (432-479 °F) |
| | Flashpoint: | 218 °C (424.5 °F) |
| | Jpper/Lower Flammability Limits: | NA |
|).9 V | √apor Pressure: | < 0.3 kPa |
| 9.10 V | √apor Density: | > 1.0 |
|).11 F | Relative Density: | 0.882 |
| 0.12 S | Solubility: | Insoluble in water. |
| 9.13 F | Partition Coefficient (log Pow): | NA |
| 0.14 A | Autoignition Temperature: | 320 °C (608 °F) |
| 9.15 E | Decomposition Temperature: | NA |
| 9.16 V | ∕iscosity: | Kinematic: 63 cSt @ 40 deg C |
| 9.17 0 | Other Information: | VOC: < 1%; Pour Point: -37 °C (-34.6 °C) |
| | | 10. STABILITY & REACTIVITY |
| 10.1 5 | Stability: | Relatively stable under ambient conditions when stored properly. |
| 10.2 F | Hazardous Decomposition Products: | If exposed to <u>extremely high temperatures</u> , products of thermal decomposition may include irritating vapors and to gases (e.g., oxides of carbon & nitrogen). |
| 10.3 H | Hazardous Polymerization: | Will not occur. |
| 10.4 C | Conditions to Avoid: | Exposure or contact to extreme temperatures, incompatible chemicals, strong light sources, sparks, flame. |
| 10.5 li | ncompatible Substances: | Strong oxidizers, peroxides or strong acids or alkalis. |
| | | |
| | | 11. TOXICOLOGICAL INFORMATION |
| | Routes of Entry: | Inhalation: YES Absorption: YES Ingestion: NO |
| 11.2 T | Toxicity Data: | This product has NOT been tested on animals to obtain toxicology data. Toxicology data, found in scientific literature, available for some of the components of the product and is presented below. <u>Mineral Oils</u> – LD ₅₀ (oral, rat) > 5,000 mg/kg; LD ₅₀ (dermal, rabbit) > 5,000 mg/kg; LC ₅₀ (inh, rat, 4h) > 5.53 mg/L |
| 11.3 A | Acute Toxicity: | Mineral oil mists derived from highly refined oils are reported to have low acute and sub-acute toxicities in anima |

| 11.5 | Acute Toxicity. | Effects from single and short-term repeated exposures to high concentrations of mineral oil mists well above applicable workplace exposure levels include lung inflammatory reaction, lipoid granuloma formation and lipoid pneumonia. In acute and sub-acute studies involving exposures to lower concentrations of mineral oil mists at or near current workplace exposure levels produced no significant toxicological effects. |
|------|------------------------------|---|
| 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: | Petroleum distillates, hydrotreated heavy paraffinic is listed on the ACGIH A2 list (Suspected human carcinogen); however, product contains less than 3% Dimethyl Sulfoxide (DMSO) per IP346. |
| 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. |
| | Reproductive Toxicity: | This product is not reported to produce reproductive toxicity in humans. |
| 11.7 | Irritancy of Product: | See Section 4.2 |
| 11.8 | Biological Exposure Indices: | NE |
| | | |



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| | | 12. ECOLOGICAL INFORMATION |
|-------|---------------------------------|--|
| 12.1 | Environmental Stability: | Analysis for ecological effects has not been conducted on this product. However, if spilled, this product and any contaminated soil or water may be harmful to human, animal, and aquatic life. Also, the coating action associated with petroleum and petroleum products can be harmful or fatal to aquatic life and waterfowl. Not readily biodegradable in water. Adsorbs into the soil. |
| 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: | Petroleum-based (mineral) lube oils will normally float on water. In stagnant or slow-flowing waterways, an oil layer can cover a large surface area. As a result, this oil layer might limit or eliminate natural atmospheric oxygen transport into the water. With time, if not removed, oxygen depletion in the waterway can result in a loss of marine life or create an anaerobic environment. Severe algae growth can reduce oxygen content in the water possibly below levels necessary to support marine life. Avoid release to the environment. <u>Petroleum distillates, hydrotreated heavy paraffinic</u> - LC ₅₀ (Oncorhynchus mykiss, 96h): 5,000 mg/L; LC ₅₀ (Pimephales promelas, 96h): 100 mg/L; EC ₅₀ (Daphnia magna, 48h): 1,000 mg/L; NOEL (Pseudokirchneriella subcapitata (algae), 72h): 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: | Unused oil may be recyclable. Contact the federal, state or provincial environmental authority to determine suitability for recycling and or proper disposal requirements. |
| | | 14. TRANSPORTATION INFORMATION |
| The b | pasic description (ID Number, p | proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional descriptive information |
| | be required by 49 CFR, IATA/I | |
| 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: | 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). |
| 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 72623-87-1: May be used as a single component chemical under an appropriate group standard CAS 67472-54-7: May be used as a single component chemical under an appropriate group standard NZIoC Classification: 6.1E, Lubricants (Low Hazard) – HSR002605 Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) |



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| | | 16. OTHER INFORMATION | |
|------|----------------------|--|-----------------------------|
| 16.1 | Other Information: | DANGER! MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS. IF SWALLOWED: Immediately cal POISON CENTER or doctor/physician. Do NOT induce vomiting. IF IN EYES: Rinse cautiously with water for sever minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store locked up. KEEP OUT OF REACH OF CHILDREN. | |
| 16.2 | Terms & Definitions: | See last page of this Safety Data Sheet. | |
| 16.3 | Disclaimer: | This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Ot government regulations must be reviewed for applicability to this product. To the best of ShipMate's, Smarter Sortin & Petra Oil Company's knowledge, the information contained herein is reliable and accurate as of this date; however, suitability or completeness is not guaranteed and no warranties of any type, either expressed or implied, provided. The information contained herein relates only to the specific product(s). If this product(s) is combined we other materials, all component properties must be considered. Data may be changed from time to time. Be sure consult the latest edition. | ng's ver, are with |
| 16.4 | Prepared for: | Petra Oil Company 50 Jacobs Lane Ngaruawahia 3792, New Zealand Tel: +64 (21) 771 703 Email: agacita@petraoilco.com | |
| 16.5 | Prepared by: | 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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REACTIVITY

SPECIAL PRECAUTIONS

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

SDS Revision: 1.1

NATIONAL FIRE PROTECTION ASSOCIATION: NEPA

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 | 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:

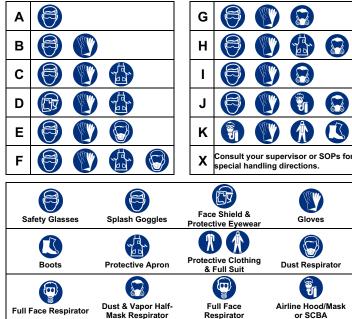
| and provide oxygen to the body. |
|---------------------------------|
| and provide exugen to the body |

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

| 0 | Minimal Hazard | HEALTH |
|---|-----------------|---------------------|
| 1 | Slight Hazard | FLAMMABILITY |
| 2 | Moderate Hazard | PHYSICAL HAZARDS |
| 3 | Severe Hazard | PERSONAL PROTECTION |
| 4 | Extreme Hazard | |

PERSONAL PROTECTION RATINGS:



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 |

| FLAMMABILI | TY 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 | |
| 3 | Severe Hazard | |
| 4 | Extreme Hazard | |
| ACD | Acidic | |
| ALK | Alkaline | |
| COR | Corrosive | |
| W | Use No Water | HEALTH |
| ох | Oxidizer | |
| TREEOII | Radioactive | |

TOXICOLOGICAL INFORMATION:

| LD50 Lethal Dose (solids & liquids) which kills 50% of the exposed a | | | |
|---|---|--|--|
| LC50 Lethal concentration (gases) which kills 50% of the exposed anim | | | |
| ppm Concentration expressed in parts of material per million parts | | | |
| TDio | TD _{io} 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:

| \bigcirc | ۲ | ٢ | | Ð | | | |
|------------|-----------|-----------|----------|------------|------------|-----------|----------|
| 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 | | | | | |
|-----------|-----------|----------|-------------|-----------|-------|-----------------------|------------------|-------------|
| GHS01 | GHS02 | GHS03 | GHS04 | GHS05 | GHS06 | GHS07 | GHS08 | GHS09 |
| Explosive | Flammable | Oxidizer | Pressurized | Corrosive | Toxic | Harmful Irritating | Health Hazard | Environment |