PELL MITCHELL

SAFETY DATA SHEET

Page 1 of 6 **2K-001**

| Prepared to OSHA, ACC, A | NSI NOHSC WHMIS | 2001/58 & 1272/2 | 008/FC Standar | ds | 90 | S Revision: | 15 | SDS P | evision Date: | 1/1/2018 |
|--|---|---|---|---|--|-------------------------------------|----------------------------------|------------------------------------|--------------------------|---|
| Topared to OSTIA, ACC, A | | , 200 11 JO & 121 212 | | JUD | 30 | | . 1.0 | 303 K | | 1/1/2010 |
| | 1. | PRODUC | T & COM | PANY | IDENT | IFICAT | ΓΙΟΝ | | | |
| .1 Product Name: | PAUL | MITCHELL | PROCES | SING | LIQUIE |) | | | | |
| I.2 Chemical Name: | NA | | | <u> </u> | | - | | | | |
| I.3 Synonyms: | Paul Mitchel | I Processing Liqu | uid | | | | | | | |
| .4 Trade Names: | John Paul M | litchell Systems I | Processing Liq | uid | | | | | | |
| I.5 Product Uses & Restrict | ions: Professional | l or Cosmetic Us | e Only | | | | | | | |
| 1.6 Distributor's Name: | TU-K Indust | | | | | | | | | |
| 1.7 Distributor's Address: | 5702 Firesto | one Place, South | Gate, CA 902 | 80 | | | | | | |
| I.8 Emergency Phone: | | L: +1 (800) 2 | | 01-813- | 248-058 | 5 (CN-M | IS1106 | 995) | | |
| I.9 Business Phone / Fax: | +1 (562) 927 | 7-3365 / +1 (562) | 928-8154 | | | | | | | |
| | | 0 114 | | | | | | | | |
| .1 Hazard Identification: | This produce | t is classified as | | | | | | | 0000 | |
| | WARNING! Classificatio Hazard State Precautiona gloves and present and advice/atten | the classification CAUSES SERI <u>n:</u> Eye Irrit. 2 <u>ements</u> (H): H311 <u>ry Statements</u> (F eye/face protec easy to do. C tion. P405 – Si torage or disposa | 9 – Causes se 9): P264 – Wa tion. P305+P ontinue rinsing core locked up | rious eye ash thorou 351+P33 g. P337+ 9. P501 - | rritation. ghly after 3 – IF IN P313 – If | handling. EYES: R eye irritat | P280 – emove co ion persis | Wear pro ontact len | ises, if nedical | |
| | 3 6 | OMPOSITI | | | | FORM | | J | | |
| | | | | | | • | - | E LIMITS IN A | AIR (mg/m ³) | |
| | | | | | ACGIH | N | IOHSC | (| OSHA | |
| | | | | | ppm | | ppm | | ppm | - |
| HEMICAL NAME(S) | CAS No. | RTECS No. | EINECS No. | % | TLV ST | ES- EL TWA | ES- ES STEL PEA | | STEL IDLH | OTHER |
| | 7732-18-5 | ZC0110000 | 231-791-2 | 60-100 | NA N/ | | NF NF | | NA NA | |
| /ATER (AQUA / EAU) | | | - | | | | | | | |
| YDROGEN PEROXIDE | 7722-84-1 | MX0900000 | 231-765-0 | 2.1-2.4 | (1.4) N/ | A (1.4) | NF NF | (1.4) | NA 75 | |
| | Eye Irrit. 2; I 9005-65-6 | H319 NA | 500-019-9 | < 1.0 | NA N | A NF | NF NF | NA | NA NA | |
| OLYSORBATE 80 | 9005-65-6 | INA | 500-019-9 | < 1.0 | | | | NA | NA NA | |
| OLYSORBATE 20 | 9005-64-5 | NA | NA | < 1.0 | NA N/ | A NF | NF NF | NA | NA NA | |
| OLISORDATE 20 | | T | | | | | | | | 1 |
| SOPROPYL C12-15-PARE ⁻ CARBOXYLATE | ГН-9 <u>NA</u> | NA | NA | < 1.0 | NA NA | A NF | NF NF | NA | NA NA | |
| ARDUATLATE | | | | | | | | | | |
| | | 4. | FIRST AI | | SURE | S | | | | |
| I.1 First Aid: | Ingestion: | | | | | | en swall | owed, dri | nk plenty | of water or mi |
| | <u>Ingectori</u> . | IMMEDIATELY | If the patien erson. Contact | nt is vomit | ing, contin est Poisor | iue to offein Control C | r water or Center or | [·] milk. Ne local eme | ever give wa | ater or milk to a nber. Provide a ostance that wa |
| | Eyes: | | | | | | | h with cop | pious amou | ints of lukewar |
| | Skin | water for at lea | | | | | | owarm w | ator follow | ed by a thoroug |
| | <u>Skin</u> : | | • | | | - | - | | | ersists, contact |
| | | physician imm | | | .p a.i.a iio | | | | ononig p | |
| | Inhalation: | Remove victim | to fresh air at | once. | | | | | | |
| .2 Effects of Exposure: | Ingestion: | If product is sw | | | | | | | | |
| | <u>Eyes</u> : | | tating to the e | yes. Syn | ptoms of | overexpos | ure may | include re | dness, itch | ing, irritation an |
| | <u>Skin</u> : | watering. May be irritatir some sensitive | | e product | can cause | e allergic s | kin reacti | ons (e.g., | rashes, we | elts, dermatitis) |
| | Inhalation: | None expected | | | | | | | | |
| 4.3 Symptoms of Overexpos | include redr | <u>Innalation</u> : None expected. Overexposure in eyes may cause severe damage, redness, itching and watering. Symptoms of skin overexposure may include redness, itching, and irritation of affected areas. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in some sensitive individuals. | | | | | | | | |
| | | | | | | | | | | |
| 4.4 Acute Health Effects: | | ation to eyes. Sy | | | e may inclu | ude rednes | s, itchina | , stinging. | irritation ar | nd watering. |

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| | 4. FIRST AID MEASURES – cont'd | | | | | | | | |
|-----|--|---|----------------------|--------|--|---|---|--|--|
| | | | | | | | | | |
| 4.6 | 1.6 Target Organs: Eyes, Skin, Respiratory System | | | | | | | | |
| 4.7 | And the first of the mean of t | | | | | | 1 | | |
| | Aggravated by Exposure: | target organs (eyes, skin, and respiratory system). | | BILITY | | (| 0 | | |
| | | | PHYSICA | S | | 1 | | | |
| | | | PROTECTIVE EQUIPMENT | | | | В | | |
| | | | EYES SKIN | | | | | | |
| | | | • | | | | | | |
| | | 5. FIREFIGHTING MEASURES | | | | | | | |
| 5.1 | 5.1 Fire & Explosion Hazards: This product is not flammable. | | | | | | | | |
| 5.2 | 5.2 Extinguishing Methods: CO ₂ , Halon (if permitted), Dry Chemical, Foam, as authorized. | | | | | | | | |
| 5.3 | Firefighting Procedures: | As in any fire, wear MSHA/NIOSH approved self-contained breathing apparatus (pressure- demand) and full protective gear. Keep containers cool until well after the fire is out. Use water spray to cool fire-exposed surfaces and to protect personal. Fight fire upwind. Prevent runoff from | | | | | | | |

| | | fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies. | | | | | | | | | |
|-----|--|---|---|-----------|---------------|-------------|-------------|------------|----------|----------|------------------------|
| | | 6. ACCIDE | INTA | | ELEAS | E MEA | SURES | 5 | | | |
| 6.1 | Spills: | Before cleaning any spill or | Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment (PPE). Keep incompatible materials (e.g., organics such as oil) away from spill. | | | | | | | | |
| | | For <u>small spills</u> (e.g., < 1 gallon (3.8 L)) wear appropriate personal protective equipment (e.g., goggles, gloves). Maximize ventilation (open doors and windows). Remove spilled material with absorbent material and place into appropriate closed container(s) for disposal. Dispose of properly in accordance with local, state and federal regulations. Wash all affected areas and outside of container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before reuse. For <u>large spills</u> (e.g., ≥ 1 gallon (3.8 L)), deny entry to all unprotected individuals. Dike and contain spill with inert material (e.g., sand or earth). Transfer liquid to containers for recovery or disposal and solid diking material to separate containers for proper disposal. Remove contaminated clothing promptly and wash affected skin areas with soap and | | | | | | | | | |
| | | water. Keep spills and cleaning | ng runo | ffs out o | of municipa | al sewers a | and open b | odies of | water. | | • |
| | | | | eto | DACE | | | | | | |
| 7.1 | Work & Hygiene Practices: | 7. HANDLIN | | | | | | | lling Av | unid oon | toot with flommable or |
| 7.1 | work a riggiene Fractices. | Do not eat, drink, or smoke while handling this product. Wash thoroughly after handling. Avoid contact with flammable or combustible materials. Avoid contamination from any source, including metals, dust and organic materials. Keep bulk covered. Wash unintentional residues with soap and warm water. | | | | | | | | | |
| 7.2 | Storage & Handling: | Use and store in a cool, dry, well-ventilated location (e.g., local exhaust ventilation, fans). Keep away from excessive heat and open flames. Avoid temperatures above 120 °F. Keep away from incompatible substances. Protect containers from physical damage. | | | | | | | | | |
| 7.3 | Special Precautions: | Spilled material may present a | a slippir | ng haza | rd if left un | attended. | Clean all s | spills pro | mptly. | | |
| | | 8. EXPOSURE CO | | | | SUNV | | FEAT | | | |
| 8.1 | Exposure Limits: | 0. EXI 030KE CO | AC | | | NOHSC | | | OSHA | | OTHER |
| 0.1 | ppm (mg/m ³) | CHEMICAL NAME(S) | TLV | STEL | ES-TWA | ES-STEL | ES-PEAK | PEL | STEL | IDLH | |
| | | HYDROGEN PEROXIDE | (1.4) | NA | (1.4) | NF | NF | (1.4) | NA | 75 | |
| 8.2 | Ventilation & Engineering Controls: | When working with large qu Ensure that an eyewash static | on, sink | or was | hbasin is a | vailable in | case of ex | posure | 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 | 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. | | | | | | | | | |
| 8.5 | Hand Protection: | AVOID SKIN CONTACT DUE TO SENSITIZING POTENTIAL. 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: | AVOID SKIN CONTACT D protection is required under appropriate standards of Cana | typical | circum | stances of | use and | handling. | | | | |
| | | | | | | | | | | | |

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| | | 9. PHYSICAL & CHEMICAL PROPERTIES | | | |
|------|--------------------------------------|--|--|--|--|
| 9.1 | Appearance: | Colorless clear liquid | | | |
| 9.2 | Odor: | Characteristic | | | |
| 9.3 | Odor Threshold: | NA | | | |
| 9.4 | pH: | 3.5-4.5 | | | |
| 9.5 | Melting Point/Freezing Point: | NA | | | |
| 9.6 | Initial Boiling Point/Boiling | NA | | | |
| 9.7 | Range: Flashpoint: | NA | | | |
| 9.8 | Upper/Lower Flammability | NA | | | |
| 9.9 | Limits: Vapor Pressure: | | | | |
| 9.10 | Vapor Density: | NA | | | |
| 9.11 | Relative Density: | 0.995-1.005 gm/ml | | | |
| 9.12 | Solubility: | Partial to complete | | | |
| 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: | NA | | | |
| | | | | | |
| | | 10. STABILITY & REACTIVITY | | | |
| 10.1 | Stability: | This product is stable. | | | |
| 10.2 | Hazardous Decomposition Products: | Oxides of carbon (CO, CO ₂) and sulfur (SO ₂). Liberation of gas my result in dangerous pressure. | | | |
| 10.3 | Hazardous Polymerization: | Will not occur. | | | |
| 10.4 | Conditions to Avoid: | Open flames, sparks and high heat, direct sunlight. | | | |
| | | any tint, lightener lotion or bleach powder after it has been mixed with developer; the container may rupture. Never return unused material to original container. Avoid extreme heat and ignition sources. | | | |
| 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 toxicological data. There are toxicology data for the components of this product, which are found in the scientific literature. | | | |
| 11.3 | Acute Toxicity: | See section 4.4 | | | |
| 11.4 | Chronic Toxicity: | See section 4.5 | | | |
| 11.5 | Suspected Carcinogen: | This product contains Hydrogen peroxide listed: ACGIH Group A3; IARC Group 3: Not classifiable as to its | | | |
| | | carcinogenicity to humans. | | | |
| 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. | | | |
| 44 - | Reproductive Toxicity: | This product is not reported to cause reproductive effects in humans. | | | |
| 11.7 | Irritancy of Product: | See Section 4.3. | | | |
| 11.8 | Biological Exposure Indices: | | | | |
| 11.9 | Physician Recommendations: | Treat symptomatically. | | | |
| | | 12. ECOLOGICAL INFORMATION | | | |
| 12.1 | Environmental Stability: | There is no specific data available for this product. | | | |
| 12.2 | Effects on Plants & Animals: | There is no specific data available for this product. | | | |
| 12.3 | Effects on Aquatic Life: | There is no specific data available for this product. | | | |
| | ı | | | | |
| | | 13. DISPOSAL CONSIDERATIONS | | | |
| 13.1 | Waste Disposal: | Dispose of in accordance with federal, state and local regulations. | | | |
| 13.2 | Special Considerations: | NA | | | |
| | | | | | |

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| | 14. TRANSPORTATION INFORMATION | | | | |
|-------------|--------------------------------------|--|--|--|--|
| The desc | basic description (ID Nun | nber, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional e required by 49 CFR, IATA/ICAO, IMDG and the CTDGR. | | | |
| 14.1 | 49 CFR (GND): | | | | |
| 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 Threshold Planning Quantity: | 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 (RQ): | NA | | | |
| 15.5 | Other Federal Requirements: | This product complies with the appropriate sections of the Food and Drug Administration's 21 CFR subchapter G (Cosmetics). This material does not contain any hazardous air pollutants. None of the components in this product are listed as priority pollutants under the CWA. None of the components in this product are listed as toxic pollutants under the CWA. | | | |
| 15.6 | Other Canadian Regulations: | This product has been classified according to the hazard criteria of the CPR and the MSDS 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 | | | |
| 15.7 | State Regulatory Information: | Hydrogen Peroxide is found on the following state criteria list: Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), Pennsylvania Right-to-Know List (PA) and Washington Permissible Exposures List (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 | | | |
| 15.8 | Other Requirements: | Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WI). The primary components of this product are listed in Annex I of EU Directive 67/548/EEC: | | | |
| | | Hydrogen Peroxide: Irritant (Xi). <u>Risk Phrases</u> (R):36 – Irritating to eyes. Safety Phrases (S): 2-3/7-20-26 - Keep away from children. Keep container tightly closed in a cool place. When using do not eat or drink. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. | | | |

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| | | 16. OTHER INFO | DRMATION | | | |
|------|----------------------|---|--|--|--|--|
| 16.1 | Other Information: | WARNING! CAUSES SERIOUS EYE IRRITATION. For external use only. Use only as directed. Discontinue use immediately if irritation develops Keep away from children. Keep container tightly closed in a cool place. When using do not eat or drink. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. If case of accident or if you feel unwell seek medical advice immediately (show the label where possible). KEEP LOCKED UP AND OUT OF REACH OF CHILDREN. This product is designed and intended for use by a licensed cosmetologist/professional hairdresser only, and carries no warranty expressed or implied if used by others. CAN CAUSE AN ALLERGIC REACTION. Preliminary patch testing is recommended. Tattoos, including black and temporary henna, may increase the risk of allergy, If a severe allergic reaction should occur, immediately seek medical attention. This product must not be used for dyeing the eyelashes or eyebrows; to do so may cause blindness. | | | | |
| 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. Other government regulations must be reviewed for applicability to this product. To the best of ShipMate's & John Paul Mitchell Systems' (2K Industries), knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are 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: | TU-K Industries, Inc. (2K) 5702 Firestone Place South Gate, CA 90280 USA Tel: +1 (562) 927-3365 Fax: +1 (562) 928-8154 http://www.2kindustries.com | PAUL MITCHELL | | | |
| 16.5 | Prepared by: | ShipMate, Inc. P.O. Box 787 Sisters, Oregon 97759-0787 USA Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700 http://www.shipmate.com | ShipMate Dangerous Goods Training & Consulting | | | |

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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

EXPOSURE LIMITS IN AIR:

| ACGIH American Conference on Governmental Industrial Hygienists | | |
|---|---|--|
| С | Ceiling Limit | |
| ES | ES Exposure Standard (Australia) | |
| IDLH Immediately Dangerous to Life and Health | | |
| 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. |

HMIS-III 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 | |

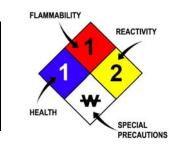
PERSONAL PROTECTION RATINGS:

| Α | | | G | | | | |
|--------|---|---|----------|---------------------------|-----------------|---------------------|---------|
| В | | | Н | | | 品 | |
| С | | | I | | | | |
| D | B | | J | | | Î | |
| Е | | | κ | | | | |
| F | | | Х | Consult y special ha | | | |
| Sa | Safety Glasses Splash Goggles Face Shield & Protective Eyewear | | | | | s | |
| | Boots Synthetic Apron | | | tive Clothir Full Suit | ^{ng} E | Oust Resp | birator |
| | | | | | | Ť | |
| Full I | ace Respir | nator Dust & Vapor Half- Mask Respirator | | ull Face espirator | Ai | rline Hoo or SCI | |
| OTH | OTHER STANDARD ABBREVIATIONS: | | | | | | |
| | ML Maximum Limit | | | | | | |
| | mg/m3 milligrams per cubic meter | | | | | | |
| | NA Not Available | | | | | | |
| | ND | | | | | | |
| | NE | Not Established | | | | | |
| | NF | Not Found | | | | | |
| | NR | No Results | | | | | |
| | ppm CCDA | parts per million | nnorotu- | | | | |
| | SCBA | Self-Contained Breathing A | | | | | |
| NAT | NATIONAL FIRE PROTECTION ASSOCIATION: NFPA | | | | | | |

FLAMMABILITY LIMITS IN AIR

| FLAWIWADILI | |
|--------------|---|
| Autoignition | Minimum temperature required to initiate combustion in air with no other |
| Temperature | 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 Hazard1 Slight Hazard2 Moderate Hazard 3 Severe Hazard 4 Extreme Hazard ACD Acidic ALD Actoic ALK Alkaline COR Corrosive W Use No Water OX Oxidizer TREFOIL Radioactive



TOXICOLOGICAL INFORMATION:

| LD ₅₀ | Lethal Dose (solids & liquids) which kills 50% of the exposed animals | | | |
|--|---|--|--|--|
| | s | | | |
| LC ₅₀ | Lethal concentration (gases) which kills 50% of the exposed animal | | | |
| ppm | Concentration expressed in parts of material per million parts | | | |
| TD _{io} | Lowest dose to cause a symptom | | | |
| TCLo | Lowest concentration to cause a symptom | | | |
| TD _{Io} , LD _{Io} , & LD _o or | Lowest dose (or concentration) to cause lethal or toxic effects | | | |
| TC, TC _o , LC _{lo} , & LC _o | | | | |
| 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: | | | | |

REGULATORY INFORMATION:

| WHMIS | Canadian Workplace Hazardous Material Information System |
|----------|---|
| DOT | U.S. Department of Transportation |
| тс | Transport Canada |
| EPA | U.S. Environmental Protection Agency |
| DSL | Canadian Domestic Substance List |
| NOHSC | National Occupational Health and Safety Commission (Australia) |
| 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) |
| HMIS-III | National Paint & Coatings Association Hazardous Materials Identification System |
| | |

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

| WORKE EACE HAZARDOOD MATERIALS IDENTIFICATION (WHIMID) STOTEM. | | | | | | | | |
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| \oslash | ۲ | ٨ | $\textcircled{\begin{subarray}{c} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$ | 1 | ۲ | | Ĩ | |
| Class A | Class B | Class C | Class D1 | Class D2 | Class D3 | Class E | Class F | |
| Compressed | Flammable | Oxidizing | Toxic | Irritation | Infectious | Corrosive | Reactive | |
| | | | | | | | | |

EC (67/548/EEC) INFORMATION:

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|-----------|-----------|-----------|---------|-----------|------------|----------|---------|
| С | E | F | Ν | 0 | т | Xi | Xn |
| Corrosive | Explosive | Flammable | Harmful | Oxidizing | Toxic | Irritant | Harmful |

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

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