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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & EU Standards SDS Revision Date: 5/21/2024 1. PRODUCT & COMPANY IDENTIFICATION 1.1 Product Name: OPTICALL™ GLASS & SURFACE CLEANER 12 Chemical Name: 1.3 Synonyms OpticALL Glass & Surface Cleaner, Part No. OP10S-19 14 Trade Names OpticALL Glass & Surface Cleaner 1.5 Product Uses & Restrictions: Glass Cleaner 1.6 Distributor's Name: CAIG Laboratories, Inc. 1.7 Distributor's Address: 12200 Thatcher Court, Poway, CA 92064-6876 USA 1.8 Emergency Phone: CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-9300 19 Business Phone / Fax: +1 (800) 224-4123 2. HAZARDS IDENTIFICATION 21 Hazard Identification: Prepared in accordance with UN Globally Harmonized standards. Intended to comply with OSHA 29 CFR 1910.1200. Canadian WHMIS and Australian Work Health and Safety standards. WARNING! PRESSURIZED CONTAINER; MAY BURST IF HEATED. CAUSES EYE IRRITATION. Classification: Aerosols 3: Eve Irrit, 2B 2.2 Label Elements: Hazard Statements (H): H229 - Pressurized container: may burst if heated. H320 - Causes eve Precautionary Statements (P): P101 - If medical advice is needed, have product container or label at hand. P102 - Keep out of reach of children. P103 - Read label before use. P210 - Keep away from heat, hot surface, sparks, open flames, and other ignition sources. No smoking. P211 - Do not spray on an open flame or other ignition source. P251 - Do not pierce or burn, even after use. P264+P265 - Wash hands and exposed skin areas with soap and warm water thoroughly after handling. Do not touch yes. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persists get medical help. P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C (122 °F). P501 - Dispose of contents/container to a licensed treatment, storage, or disposal facility (TSDF). Other Warnings: KEEP LOCKED UP AND OUT OF REACH OF CHILDREN 3. COMPOSITION & INGREDIENT INFORMATION EXPOSURE LIMITS IN AIR (mg/m³) ACGIH NOHSC **OSHA** ppm ppm ppm ES-ES-ES-STEL STEL OTHER CHEMICAL NAME(S) CAS No. RTECS No. EINECS No. TWA STEL PEAK PEL 68476-86-8 NA 270-705-8 ≤ 10.0 PETROLEUM GASES, LIQUEFIED, NA NA NF NF NF NA NA NA **SWEETENED** Press. Gas, Flam. Gas 1; H220, H280 64-17-5 KQ6300000 200-578-6 1-5 1000 3000 1000 1880 NF 1000 3000 3300 FTHANOL Flam. Liq. 2; H225 ETHYLENE GLYCOL 111-76-2 KJ8575000 203-905-0 1-5 50 75 (20) 96.9 NF 50 75 MONOBUTYL ETHER Acute Tox. (oral) 4, Acute Tox. (dermal) 4, Acute Tox. (inh) 4, Skin Irrit. 2, Eye Irrit. 2A; H302, H312, H315, H319, H332, H335 4. FIRST AID MEASURES First Aid: If ingested, do not induce vomiting. If product has been swallowed, drink plenty of water or milk Ingestion: IMMEDIATELY. If the patient is vomiting, continue to offer water or milk. Never give water or milk to an unconscious person. Contact the nearest Poison Control Center or local emergency number. Provide an estimate of the time at which the material was ingested and the amount of the substance that was Splashes are not likely; however, if product gets in the eyes, flush with copious amounts of lukewarm Eyes: water for at least 15 minutes lifting upper and lower lids, occasionally. If irritation persists repeat flushing. Get medical attention. Wash thoroughly with soap and water. In case of contact, immediately flush skin with plenty of water for at Skin: least 15 minutes. Treat for frostbite, if necessary, be gently warming affected area. If irritation, redness or swelling persists, contact a physician immediately. Remove victim to fresh air at once. If breathing difficult, administer oxygen. If breathing stops give Inhalation: artificial respiration. Keep person warm, quiet and get medical attention. 42 Effects of Exposure: Ingestion: If product is swallowed, may cause nausea, vomiting and/or diarrhea. Eyes: Moderately irritating to the eyes. Symptoms of overexposure may include redness, itching, irritation and Skin: May be irritating to skin. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in some sensitive individuals.

Inhalation:

None expected.



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|   |                           | 4. FIRST AID MEASURES – cont  | a           |                |               |            |         |  |  |  |
|---|---------------------------|---|-------------|----------------|---------------|------------|---------|--|--|--|
| 4.3   | Symptoms of Overexposure: | <u>Ingestion</u> : Nausea, intestinal discomfort, vomiting and/or diarrhea.   |             |                |               |            |         |  |  |  |
|   |                           | Eyes: Overexposure in eyes may cause redness, itching and v   | •           |                | ·             |            |         |  |  |  |
| Skin: Symptoms of skin overexposure may include redness, itching, and irritation of affected areas. symptoms. The product can cause allergic skin reactions (e.g., rashes, welts, derma |                           |   |             |                |               |            |         |  |  |  |
|   |                           | individuals.  | actions (e  | s.g., rasiles, | weits, dein   | iauus) iii | 501116  |  |  |  |
| 1.4   | Acute Health Effects:     | Moderate irritation to eyes and skin near affected areas. Addition  | onally, hig | gh concentra   | ations of var | ors can    | cause   |  |  |  |
|   |                           | drowsiness, dizziness, headaches and nausea. Frostbite like effect to skin.   |             |                |               |            |         |  |  |  |
| 1.5   | Chronic Health Effects:   | Overexposure may trigger asthma-like symptoms in some sensitive in respiratory hypersensitivity. Possible allergic dermatitis.  | ndividuals. | . May also i   | nduce skin s  | ensitizati | on and  |  |  |  |
| 1.6   | Target Organs:            | Eyes, Skin, Respiratory System.   |             |                |               |            |         |  |  |  |
| .7  | Medical Conditions        | Pre-existing dermatitis, other skin conditions, and disorders of the  | HEALT       | Ή              |               |            | 1       |  |  |  |
|   | Aggravated by Exposure:   | target organs (eyes, skin, and respiratory system).   | FLAMN       | MABILITY       |               |            | 1       |  |  |  |
|   |                           |   | PHYSIC      | CAL HAZA       | RDS           |            | 0       |  |  |  |
|   |                           |   |             | CTIVE EQ       |               |            | В       |  |  |  |
|   |                           |   | EYES        | SKIN           |               |            |         |  |  |  |
|   | 1                         |   | , = . = 0   | Johann         | L             | I.         |         |  |  |  |
|   |                           | 5. FIREFIGHTING MEASURES  |             |                |               |            |         |  |  |  |
| .1  | Fire & Explosion Hazards: | Level 1 Aerosol (NFPA 30B). Aerosols may burst at temperatures  | above 12    | 0 °F. Cool     | uninvolved    |            |         |  |  |  |
|   |                           | containers to prevent possible bursting. Aerosols may be projectile ha  |             |                |               |            |         |  |  |  |
|   |                           | are bursting, stay clear until bursting is complete. If involved in a fire  | , this prod | luct may dec   | compose at    |            |         |  |  |  |
| .2  | Extinguishing Methods:    | high temperatures to form toxic gases (e.g., CO, Hydrogen Fluoride).  |             |                |               |            |         |  |  |  |
| .2  | Firefighting Procedures:  | Water, Foam, CO <sub>2</sub> , Dry Chemical. Use water spray to cool unopened   |             |                | facatainad    | 1          |         |  |  |  |
| ).3   | Thenghing Frocedures.     | Fight fires as for surrounding materials. 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.  |             |                |               |            |         |  |  |  |
|   |                           | Avoid spraying water directly into storage containers because of danger of boil-over. Prevent runoff  |             |                |               |            |         |  |  |  |
|   |                           | from fire control or dilution from entering sewers, drains, drinking  |             |                |               |            |         |  |  |  |
|   |                           | waterway. Firefighters must use full bunker gear including NIOSH-   |             |                |               |            |         |  |  |  |
|   |                           | contained breathing apparatus to protect against potential hazardou products and oxygen deficiencies.   | as combus   | stion of dec   | omposition    |            |         |  |  |  |
|   | 1                         | 1   |             |                | l.            |            |         |  |  |  |
|   |                           | 6. ACCIDENTAL RELEASE MEASU   |             |                |               |            |         |  |  |  |
| 3.1   | Spills:                   | Before cleaning any spill or leak, individuals involved in spill clea   | anup mus    | t wear appr    | opriate Pers  | onal Prof  | tective |  |  |  |
|   |                           | Equipment. Plastic or rubber gloves, respirator, eye protection and a   |             |                |               |            |         |  |  |  |
|   |                           | Small Spills: Wear appropriate protective equipment including gloves material such as vermiculite or sand to soak up the product any liquid   |             |                |               |            |         |  |  |  |
|   |                           | not use water or a material such as "speedy dry" to soak up material  |             |                |               |            |         |  |  |  |
|   |                           | (e.g., plastic brooms, shovels, dustpans) and place into a metal or plas  |             |                |               |            |         |  |  |  |
|   |                           | Large Spills: Keep incompatible materials (e.g., organics such as oil)  | away fro    | m spill. Stay  |               |            |         |  |  |  |
|   |                           | or release. Isolate immediate hazard area and keep unauthorized per   |             |                |               |            |         |  |  |  |
|   |                           | done with minimal risk. Wear appropriate protective equipment incl  | uding resp  | oiratory prote | ection as cor | nditions w | /arran  |  |  |  |
|   |                           | Sweep up material using non-sparking materials (e.g., plastic broom plastic container.  | ns, snove   | eis, dustparis | s) and place  | into a m   | ietai t |  |  |  |
|   | 1                         | paolo contantor.  |             |                |               |            |         |  |  |  |
|   |                           | 7. HANDLING & STORAGE INFORMA   | TION        |                |               |            |         |  |  |  |
| '.1   | Work & Hygiene Practices: | Do not eat, drink, or smoke when handling this product. Contents  |             |                |               |            |         |  |  |  |
|   |                           | container(s). When used as intended, no additional protective equipment contact is possible. Wash unintentional residues with soap and warm   |             | necessary.     | Use chemica   | l goggles  | if ey   |  |  |  |
|   | Storage & Handling:       | Use and store in a cool, dry, well-ventilated location (e.g., local ext   |             | tilation, fans | ) away from   | heat and   | d direc |  |  |  |
| 7.2   |                           | sunlight. Avoid temperatures above 120 °F. Keep away from incompa   |             |                |               |            |         |  |  |  |
| 7.2   |                           |   |             |                |               |            |         |  |  |  |
| .2  |                           | damage. To avoid unintentional spraying keep cap in place when not  |             |                |               | <u>'</u>   |         |  |  |  |



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| 3.1  | Exposure Limits:                     |  | Δ٢  | GIH       |               | NOHSC        |              |            | OSHA      |          | OTHER              |
|------|--------------------------------------|--|---|-----------|---------------|--------------|--------------|------------|-----------|----------|--------------------|
| 1    | ppm (mg/m <sup>3</sup> )             | CHEMICAL NAME(S)   | TLV   | STEL      | ES-TWA        | ES-STEL      | ES-PEAK      | PEL        | STEL      | IDLH     | JIIIEK             |
|      |                                      | ETHANOL  | 1000  | 3000      | 1000          | 1880         | NF           | 1000       | 3000      | 3300     |                    |
|      |                                      | ETHYLENE GLYCOL  |   |           |               |              |              | 1000       |           |          |                    |
|      |                                      | MONOBUTYL ETHER  | 50  | 75        | (20)          | 96.9         | NF           | 50         | 75        | 700      |                    |
| 2    | Ventilation & Engineering Controls:  | General mechanical (e.g., fa                               |   |           |               |              |              |            |           |          |                    |
|      | Controlo.                            | exhaust ventilation to effecti                             |   |           |               |              |              |            |           |          |                    |
| 3    | Respiratory Protection:              | product. Ensure appropriate  No special respiratory protec |   |           |               |              | , , ,        |            | ,         |          |                    |
| .0   | recognition y 1 recoulons            |  |   |           |               |              |              |            |           |          |                    |
|      |                                      |  | where dusts of this product are generated, and respiratory protection is needed, use only protection outhorized by 29 CFR §1910.134, applicable U.S. State regulations, or the Canadian CAS Standard Z94.4- |           |               |              |              |            |           |          |                    |
|      |                                      | 93 and applicable standards                                |   |           |               |              |              |            |           |          |                    |
| 3.4  | Eye Protection:                      | Avoid eye contact. None re-                                |   |           |               | litions of u | ise. Safet   | y glasse   | s could   | be use   | d when             |
|      |                                      | handling or using large quant                              | ities of t  | his prod  | uct.          |              |              |            |           |          |                    |
| 3.5  | Hand Protection:                     | None required under norma                                  | I condit  | ions of   | use. Hov      | vever, ma    | y cause sl   | kin irrita | tion in   | some s   | ensitive           |
|      |                                      | individuals. When handling I                               |   |           |               |              |              |            |           |          |                    |
|      |                                      | plastic gloves.  |   |           |               |              |              |            |           |          |                    |
| 3.6  | Body Protection:                     | No apron required when ha                                  |   |           |               |              |              |            |           |          |                    |
|      |                                      | wash stations and deluge she                               |   |           |               |              |              |            | ctivities | involvir | ng large           |
|      |                                      | quantities of this product, was                            | sn any e  | exposea   | areas thoi    | ougnly wit   | n soap and   | water.     |           |          |                    |
|      |                                      | 0 011/010  |   |           |               |              | EDTIE        |            |           |          |                    |
|      | Т                                    | 9. PHYSICA   | AL &  | CHE       | WICAL         | PROP         | EKIIE        | <u> </u>   |           |          |                    |
| ).1  | Appearance:                          | Aerosol. Clear liquid.                                     |   |           |               |              |              |            |           |          |                    |
| 9.2  | Odor:                                | NA   |   |           |               |              |              |            |           |          |                    |
| 9.3  | Odor Threshold:                      | NA   |   |           |               |              |              |            |           |          |                    |
| 1.4  | pH:                                  | NA   |   |           |               |              |              |            |           |          |                    |
| 1.5  | Melting Point/Freezing Point:        | NA   |   |           |               |              |              |            |           |          |                    |
| 9.6  | Initial Boiling Point/Boiling        | NA   |   |           |               |              |              |            |           |          |                    |
| 9.7  | Range:<br>Flashpoint:                | >200 °F  |   |           |               |              |              |            |           |          |                    |
| 9.8  | Upper/Lower Flammability             |  |   |           |               |              |              |            |           |          |                    |
|      | Limits:                              | NA   |   |           |               |              |              |            |           |          |                    |
| 9.9  | Vapor Pressure:                      | NA   |   |           |               |              |              |            |           |          |                    |
| 9.10 | Vapor Density:                       | NA   |   |           |               |              |              |            |           |          |                    |
| 9.11 | Relative Density:                    | NA   |   |           |               |              |              |            |           |          |                    |
| 9.12 | Solubility:                          | Soluble  |   |           |               |              |              |            |           |          |                    |
| 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:                   | VOC: 10%   |   |           |               |              |              |            |           |          |                    |
|      |                                      |  |   |           |               |              |              |            |           |          |                    |
|      |                                      | 10. S  | IABI  | LITY      | & REA         | CTIVI        | ΙΥ           |            |           |          |                    |
| 0.1  | Stability:                           | Stable under normal condition                              | ns; unst  | able witl | h heat or c   | ontaminat    | ion.         |            |           |          |                    |
| 10.2 | Hazardous Decomposition<br>Products: | Change in color signifies ex                               | posure  | to ultrav | iolet light   | or exceed    | ding shelf I | ife. Wil   | l not de  | grade t  | to unstable produc |
|      |                                      | Discard solution.  |   |           |               |              |              |            |           |          |                    |
| 10.3 | Hazardous Polymerization:            | Will not occur.  |   |           |               |              |              |            |           |          |                    |
| 10.4 | Conditions to Avoid:                 | Open flames, sparks, high he                               |   |           |               |              |              | t          |           |          |                    |
| 0.5  | Incompatible Substances:             | Avoid extreme heat and igniti                              | on sour   | ces. Sto  | re away fr    | om oxidize   | ers.         |            |           |          |                    |
|      |                                      |  |   |           |               |              |              |            |           |          |                    |
|      |                                      | 11. TOXI   | COL   | OGIC      | <b>AL INF</b> | ORMA         | TION         |            |           |          |                    |
| 1.1  | Routes of Entry:                     | Inhalation: YES  |   |           |               |              | YES          |            |           | Ingest   | ion: YES           |
| 1.2  | Toxicity Data:                       | This product has NOT been t                                |   | n anima   | ls to obtair  |              |              | xicoloav   | data, fo  | ound in  |                    |
|      |                                      | available for some of the com                              |   |           |               | 3            | ,            | 3)         | ,         | •        |                    |
| 11.3 | Acute Toxicity:                      | Moderate irritation to eyes                                | •   |           |               | areas. A     | dditionally, | high co    | ncentra   | tions o  | f vapors can cau   |
|      |                                      | drowsiness, dizziness, heada                               |   |           |               |              |              |            |           |          | ·                  |
| 1.4  | Chronic Toxicity:                    | This material may aggravate                                | any pre-  | -existing | skin cond     | ition (e.g., | dermatitis)  | )          |           |          |                    |
|      | Suspected Carcinogen:                |  |   |           |               |              |              |            |           |          |                    |



15.8

Other Requirements:

NA

# SAFETY DATA SHEET

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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & EU Standards SDS Revision Date: 5/21/2024 11. TOXICOLOGICAL INFORMATION - cont'd 11.6 Reproductive Toxicity: This product is not reported to produce reproductive toxicity in humans. Mutagenicity: This product is not reported to produce mutagenic effects in humans. Embryotoxicity: This product is not reported to produce embryotoxic effects in humans. Teratogenicity This product is not reported to cause teratogenic effects in humans. Reproductive Toxicity This product is not reported to cause reproductive effects in humans. 11.7 Irritancy of Product: The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure 118 Biological Exposure Indices NE 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. 13. DISPOSAL CONSIDERATIONS 13.1 Waste Disposal: Disposal should be in accordance with local, state, provincial and federal regulations 13.2 Special Considerations Aerosols may qualify as Universal Waste in some states. Consult your state EPA (or equivalent) for more information. 14. TRANSPORTATION INFORMATION The basic description (ID Number, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional descriptive information may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR. 49 CFR (GND): UN1950, AEROSOLS, 2.2 (LTD QTY, IP VOL ≤ 1.0 L) IATA (AIR): 14.2 ID8000, CONSUMER COMMODITY, 9 (IP VOL ≤ 1.0 L), or Allh, UN1950, AEROSOLS, NON-FLAMMABLE, 2.2 (LTD QTY, IP VOL ≤ 1.0 L); or 14.3 IMDG (OCN): UN1950, AEROSOLS, 2.2 (LTD QTY, IP VOL ≤ 1.0 L) TDGR (Canadian GND): 14.4 UN1950, AEROSOLS, 2.2 (LTD QTY, IP VOL ≤ 1.0 L) ADR/RID (EU): 14.5 UN1950, AEROSOLS, 2.2 (LTD QTY, IP VOL ≤ 1.0 L) 14.6 SCT (MEXICO): UN1950, AEROSOLES, 2.2 (CANT. LTDA., IP VOL ≤ 1.0 L) 14.7 ADGR (AUS): UN1950, AEROSOLS, 2.2 (LTD QTY, IP VOL ≤ 1.0 L) 15. REGULATORY INFORMATION 15.1 SARA Reporting This product does not contain any substances subject to SARA Title III, section 313 reporting requirements. Requirements SARA Threshold Planning 15.2 There are no specific Threshold Planning Quantities for the components of this product. Quantity: 15.3 TSCA Inventory Status: The components of this product are listed on the TSCA Inventory or are otherwise exempt. 15.4 CERCLA Reportable Quantity NA (RQ): Other Federal Requirements 15.5 NA 15.6 Other Canadian Regulations: This product has been classified according to the hazard criteria of the CPR and the SDS contains all 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. State Regulatory Information: 15.7 Ethylene Glycol Monobutyl Ether is found on the following state criteria list(s): FL, MA, MN, NJ, PA, and WA. Ethanol is found on the following state criteria list(s): MA, MN, NJ, PA, and 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).



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|      |                      | 16. OTHER INFORMATION   |  |  |  |  |  |  |  |
|------|----------------------|---|--|--|--|--|--|--|--|
| 16.1 | Other Information:   | WARNING! PRESSURIZED CONTAINER; MAY BURST IF HEATED. CAUSES EYE IRRITATION.  If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use. Keep away from heat, hot surface, sparks, open flames, and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Wash hands and exposed skin areas with soap and warm water thoroughly after handling. Do not touch eyes. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical help. Protect from sunlight. Do not expose to temperatures exceeding 50 °C (122 °F).  KEEP LOCKED UP AND 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. Other government regulations must be reviewed for applicability to this product. To the best of ShipMate's & CAIG Laboratories, Inc.'s knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness is not guaranteed and no warranties of any type, either expressed or implied, are provided. The information contained herein relates only to the specific product(s). If this product(s) is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.  |  |  |  |  |  |  |  |
| 16.4 | Prepared for:        | CAIG Laboratories, Inc.  12200 Thatcher Court  Poway, CA 92064-6876  Tel: +1 (800) CAIG-123 (244-4123)  Fax: +1 (858) 486-8398 fax  http://www.caig.com/  |  |  |  |  |  |  |  |
| 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  |  |  |  |  |  |  |  |



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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:**

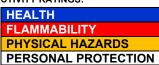
| CAS No.                          | Chemical Abstract Service Number                                |  |  |  |  |  |  |
|----------------------------------|---|--|--|--|--|--|--|
| <b>EXPOSURE</b>                  | EXPOSURE LIMITS IN AIR:   |  |  |  |  |  |  |
| ACGIH                            | ACGIH American Conference on Governmental Industrial Hygienists |  |  |  |  |  |  |
| С                                | Ceiling Limit   |  |  |  |  |  |  |
| ES Exposure Standard (Australia) |   |  |  |  |  |  |  |
| IDLH                             | IDLH Immediately Dangerous to Life and Health                   |  |  |  |  |  |  |
| 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:

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.

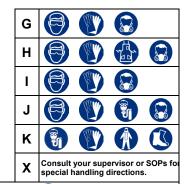
### HMIS-III HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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



### PERSONAL PROTECTION RATINGS:

| Α |  |  |  |
|---|--|--|--|
| В |  |  |  |
| С |  | THE N  |  |
| D |  | THE STATE OF THE S |  |
| Е |  |  |  |
| F |  | HA,  |  |
|   |  |  |  |























**1** Airline Hood/Mask or SCBA

## OTHER STANDARD ABBREVIATIONS:

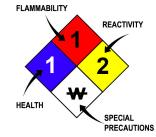
| • |                                    |
|---|------------------------------------|
| ML                                      | Maximum Limit                      |
| mg/m3                                   | milligrams per cubic meter         |
| NA                                      | Not Available                      |
| ND Not Determined                       |                                    |
| NE Not Established                      |                                    |
| NF                                      | Not Found                          |
| NR                                      | No Results                         |
| ppm                                     | parts per million                  |
| SCBA                                    | Self-Contained Breathing Apparatus |

### NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

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

#### **HAZARD RATINGS:**

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



#### TOXICOLOGICAL INFORMATION:

| LD <sub>50</sub>   | Lethal Dose (solids & liquids) which kills 50% of the exposed animals |  |  |  |
|--|---|--|--|--|
| LC <sub>50</sub>   | Lethal concentration (gases) which kills 50% of the exposed animal    |  |  |  |
| ppm  | Concentration expressed in parts of material per million parts        |  |  |  |
| TD <sub>Io</sub> Lowest dose to cause a symptom            |   |  |  |  |
| TCLo   | Lowest concentration to cause a symptom                               |  |  |  |
| TD <sub>Io</sub> , LD <sub>Io</sub> , & LD <sub>o</sub> or | Lowest dose (or concentration) to cause lethal or toxic effects       |  |  |  |
| TC, TC <sub>o</sub> , LC <sub>io</sub> , & LC <sub>o</sub> |   |  |  |  |
| 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                                 |   |  |  |
| 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 |  |  |

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

|           |           |          | $\Diamond$  | Ky<br>Spel |       | <b>\limits</b>        |                  | *           |
|-----------|-----------|----------|-------------|------------|-------|-----------------------|------------------|-------------|
| GHS01     | GHS02     | GHS03    | GHS04       | GHS05      | GHS06 | GHS07                 | GHS08            | GHS09       |
| Explosive | Flammable | Oxidizer | Pressurized | Corrosive  | Toxic | Harmful<br>Irritating | Health<br>Hazard | Environment |