


1. Company and Product Identification

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|-----|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| 1.1 | Identification – Product Name: | EVOLUTION STARCH OFF |
| 1.2 | Other means of identification | NA |
| | Synonym: | NA |
| 1.3 | Recommended use of the Chemical and Restrictions on use: | Cleaning agent |
| 1.4 | Name, address and telephone number of the manufacturer or other responsible party: | Clean Print Solutions 5-7 Maria St, Laverton North, Victoria 3026 Ph: +61 3 5783 2902 Mob: +61416 275 634 |
| 1.5 | 24 Hour Emergency No.: | USA 800-222-1222, Chemtrec 1 800 424 9300 Australia 131 126, NZ 0800 764 766 Canada 1 888 226 8832 |

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: This product is a blue liquid with distinctive odor. Repeated exposure may cause skin dryness or cracking or minor irritation. The product is not flammable. Depending on the duration of over-exposure, breathing vapors may cause headache or dizziness, respiratory tract irritation. Thermal decomposition of this product may produce irritating vapors and toxic gases (e.g. carbon monoxide and carbon dioxide). Emergency responders must wear personal protective equipment (and have appropriate fire-extinguishing protection) suitable for the situation to which they are responding.

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|-----|------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------|
| 2.1 | Classification Of Product | | |
| | U.S. OSHA classification | Respiratory sensitizer, Category 1 | |
| | Classification as per EC 1272/2008 (CLP/GHS) | Respiratory sensitizer, Category 1 | |
| | Hazardous Materials Information System (HMIS) Rating | Health | 2 |
| | | Flammability | 0 |
| | | Physical Hazard | 0 |
| | | Protective Equipment | C |
| | | Chronic Health Hazard | |
| 2.2 | Label Elements OSHA/GHS | | |
| | Signal Word | DANGER | |
| | Hazard Statements | H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled |

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|-----|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Precautionary Statements: Prevention | P103 P261 P285 | Read label before use Avoid breathing mist, vapors or spray In case of inadequate ventilation wear respiratory protection |
| | Precautionary Statements: Response | P304+P341 P342+P311 | IF INHALED if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing If experiencing respiratory symptoms call a POISON CENTER or doctor/physician |
| | Precautionary statements: Storage | N/A | N/A |
| | Precautionary Statements: Disposal | P501 | Dispose of contents/container in accordance with all federal, state and local regulation |
| | Hazard pictograms |  | |
| 2.3 | EPA (New Zealand) Health Hazards | Classified as hazardous according to the criteria of the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001 - HSR002530 Cleaning Products (Subsidiary hazard) Group Standard 2017 6.5A Substances that are respiratory sensitizers. | |
| 2.4 | Hazards from dilution of 10 to 1 for use per product label | When the concentrate is diluted per label instructions, the resulting solution is completely non-hazardous. | |

3. COMPOSITION and INFORMATION ON INGREDIENTS

| Chemical name | CAS Number | % w/w |
|----------------------------------------------|------------|-------|
| Proprietary blend of surfactants and enzymes | N/A | <20% |
| Proprietary blend of solvents | N/A | <10% |
| Water | N/A | Bulk |

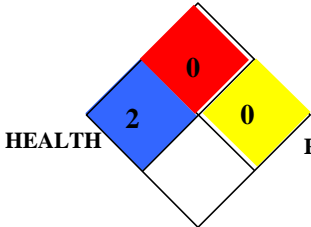
See Section 16 for Definitions of Terms Used.

The manufacturer claims Trade Secret Information as defined in 29CFR1910.1200 Appendix E and 29CFR1910.1200(i). All hazards have been accounted for in this product's hazard classification.

4. FIRST-AID MEASURES

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| 4.1 | Description of Necessary Measures | |
| | Skin exposure: | If this product contaminates the skin, immediately begin decontamination with running water. Remove exposed or contaminated clothing, taking care not to contaminate eyes. Victim should seek immediate medical attention if any adverse exposure symptoms develop or irritation persists. |
| | Eye exposure: | If this product enters the eyes, open victim's eyes while under gently running water. Use sufficient force to open eyelids. Have victim "roll" eyes. Minimum flushing is for 15 minutes. Seek medical attention immediately. |
| | Inhalation: | If this product is inhaled, remove victim to fresh air and place in a position comfortable for breathing. If necessary, use artificial respiration to support vital functions. Remove or cover gross contamination to avoid exposure to rescuers. |
| | Ingestion: | If this product is swallowed, CALL POISON CENTER or PHYSICIAN FOR MOST CURRENT INFORMATION. DO NOT INDUCE VOMITING. Have victim rinse mouth with water, if conscious. Never induce vomiting or give a diluent (e.g., water) to someone who is unconscious, having convulsions, or unable to swallow. If contaminated individual is convulsing, maintain an open airway and obtain immediate medical attention. |
| 4.2 | Most Important Symptoms/Effects: | <p>Immediate: Inhalation exposure may cause coughing or sneezing/respiratory tract irritation. Symptoms of skin and eye contact may include redness and irritation. Ingestion may cause stomach pains, cramps, and gastritis.</p> <p>Delayed: Prolonged or repeated skin overexposure to this product may cause dermatitis (dry, red skin).</p> |
| 4.3 | Indication Of Immediate Medical Attention And Special Treatment Needed, If Necessary: | <p>None known.</p> <p>TARGET ORGANS: Acute: Eyes and Skin</p> |
| <p>Victims of chemical exposure must be taken for medical attention if any adverse effects occur. Rescuers should be taken for medical attention if necessary. Take a copy of label and SDS to physician or health professional with victim.</p> | | |

5. FIRE-FIGHTING MEASURES

| | | | | | | | | | | | | | | |
|-------------|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------------|-----|------|-----|--------------|-----|-------|-----|-------|--|
| | Flammable properties | Not classifiable as flammable | <div style="border: 1px solid black; padding: 10px; text-align: center;"> <p>NFPA RATING FLAMMABILITY</p>  <p>HEALTH 2 0 REACTIVITY</p> <p>OTHER See Section 16 for definitions of ratings</p> </div> | | | | | | | | | | | |
| | | Flash Point °C (°F): > 200 °F (> 93.3 °C) | | | | | | | | | | | | |
| | | Autoignition Temperature °C (°F): Not evaluated | | | | | | | | | | | | |
| | | Flammable Limits (in air by volume, %): Not evaluated | | | | | | | | | | | | |
| 5.1 | Suitable And Unsuitable Extinguishing Media: | <p>This material should not contribute to the intensity of a fire. Use extinguishing material suitable for ordinary combustibles.</p> <table border="0" style="width: 100%;"> <tr> <td>Water spray</td><td>YES</td><td>Carbon dioxide</td><td>YES</td></tr> <tr> <td>Foam</td><td>YES</td><td>Dry chemical</td><td>YES</td></tr> <tr> <td>Halon</td><td>YES</td><td>Other</td><td></td></tr> </table> | Water spray | YES | Carbon dioxide | YES | Foam | YES | Dry chemical | YES | Halon | YES | Other | |
| Water spray | YES | Carbon dioxide | YES | | | | | | | | | | | |
| Foam | YES | Dry chemical | YES | | | | | | | | | | | |
| Halon | YES | Other | | | | | | | | | | | | |
| 5.2 | Specific Hazards Arising From Chemical: | <p>When involved in a fire, this material may decompose and produce irritating fumes and toxic gases (e.g., carbon monoxide, carbon dioxide)</p> <p><u>Explosion Sensitivity to Mechanical Impact:</u> None.</p> <p><u>Explosion Sensitivity to Static Discharge:</u> Vapors are not expected to ignite</p> | | | | | | | | | | | | |
| 5.3 | Special Protective Equipment And Precautions For Fire-Fighters: | <p>Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Move containers from fire area if it can be done without risk to personnel. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.</p> | | | | | | | | | | | | |

6. ACCIDENTAL RELEASE MEASURES

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| 6.1 | Personal Precautions | <p>Uncontrolled releases should be responded to only by trained personnel using pre-planned procedures. Proper protective equipment should be used. In case of a spill, clear the affected area and protect people.</p> |
| | Protective equipment | <p>For small releases (< 20 liters, 5 gallons), clean up spilled liquid wearing gloves, goggles, face shield, and suitable body protection. Absorb with earth, sand or other non-combustible material and transfer to containers for proper disposal. The minimum Personal Protective Equipment recommended for response to non-incident releases (more than 20 liters or 5 gallons) should be Level C: triple-gloves (neoprene gloves over nitrile gloves), chemical resistant suit and boots, hard hat, and full-face respirator with Organic Vapor cartridge. Monitoring must indicate oxygen levels above 19.5% in order to use air purifying respirators. Prevent further leak/release if it is safe to do so. Do not let the product enter drains.</p> |

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| | Emergency procedures | Eliminate all ignition sources. Stop leak if you can do so without risk. Monitoring must indicate that exposure levels are below those provided in Section 8 (Exposure Controls-Personal Protection) and that oxygen levels are above 19.5% before anyone is permitted in the area without Self-Contained Breathing Apparatus. |
| 6.2 | Methods and Materials for Containment and Cleaning Up | Use absorbent material for cleaning up spills. Collect spilled material for proper disposal. Decontaminate the area thoroughly. Place all spill residues in a suitable container. Dispose of in accordance with applicable U.S. Federal, State, or local procedures, or appropriate local standards (see Section 13, Disposal Considerations). |

7. HANDLING and STORAGE

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| 7.1 | Precautions for Safe Handling | <p>All employees who handle this material should be trained to handle it safely. Open containers carefully on a stable surface. Ensure all connections are tight before transfer. Empty containers may contain residual liquid; therefore, empty containers should be handled with care. Keep away from ignition sources; no smoking.</p> <p>As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Do not eat or drink while handling this material. Remove contaminated clothing promptly.</p> <p>During equipment maintenance follow practices indicated in Section 6 (Accidental Release Measures) to decontaminate equipment or clean-up small spills. Make certain that application equipment is locked and tagged-out safely if necessary. Collect all rinsates and residual material and dispose of according to applicable U.S. Federal, State, or local procedures or appropriate local standards.</p> |
| 7.2 | Conditions For Safe Storage | Keep containers tightly closed. Store individual containers out of direct sunlight. Tanks should be stored away from intense heat or direct sunlight. Avoid freezing. Store away from incompatible materials. Storage and use areas should be covered with impervious materials. Keep container tightly closed when not in use. If appropriate, post warning signs in storage and use areas. Inspect all incoming containers before storage, to ensure containers are properly labeled and not damaged. |
| | Incompatibilities | Oxidizers, strong oxidizing acids. |

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

| | | | | | | | | | |
|-----|-------------------------------------------------------------------------------------------------------------------------------------|-------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------|-------------|-------------|-------|
| 8.1 | Control Parameters | | | | | | | | |
| | CHEMICAL NAME | CAS # | % w/w | EXPOSURE LIMITS IN AIR | | | | | OTHER |
| | | | | ACGIH-TLV | | OSHA-PEL (NIOSH) | | | |
| | | | | TWA ppm | STEL ppm | TWA ppm | STEL ppm | IDLH ppm | |
| | Proprietary blend of surfactants and enzymes | NA | <10% | NA | NA | NA(NA) | NA(NA) | NA | |
| | Proprietary blend of solvents | NA | <10% | NA | NA | NA(NA) | NA(NA) | NA | |
| | No occupational exposure limits have been established for this product. Efforts should be made to limit exposure to prevent injury. | | | None of the other components contribute significant additional hazards at the concentration present in this product. All pertinent hazard information has been provided in this document, per the requirements of the Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalent Standards and Canadian Workplace Hazardous Materials Identification System Standards (CPR 4). | | | | | |
| 8.2 | Appropriate Engineering Controls. | | | Use with adequate ventilation to ensure exposure levels are maintained below the limits provided in this Section or as low as reasonably achievable. Ensure eyewash/safety shower stations are available near areas where this product is used. | | | | | |

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|-----|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8.3 | Personal Protective Equipment Respiratory protection: | Use NIOSH approved respirators. If respiratory protection is needed, use only protection authorized in the U.S. Federal OSHA Standard (29 CFR 1910.134), applicable U.S. State regulations, or the applicable local standards. Oxygen levels below 19.5% are considered IDLH by OSHA. In such atmospheres, use of a full-face piece pressure/demand SCBA or a full-face piece, supplied air respirator with auxiliary self-contained air supply is required under OSHA's Respiratory Protection Standard (1910.134-1998). |
| | Eye protection: | Use approved safety goggles or safety glasses, as described in OSHA 29 CFR 1910.133. Splash goggles with a face shield may be needed if splash hazards exist. |
| | Hand protection: | Wear chemical impervious gloves (e.g., Solvex™, Neoprene, Nitrile). |
| | Body protection: | None normally needed. If needed, use body protection appropriate for task (e.g., Tyvek suit, rubber apron) to protect from splashes and sprays. Nomex coveralls are recommended for handling bulk product. |

9. PHYSICAL and CHEMICAL PROPERTIES

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|----------------------------------------------------|---------------------------------------|----------------------------------------|-------------------------|
| Appearance | This product is a clear, blue liquid. | | |
| Odor | Distinctive | Odor Threshold | NE |
| Melting Point °C (°F) | Not evaluated | pH | 4-5 |
| Initial Boiling Point °C (°F) | 100 °C (212 °F) | Boiling Point Range °C (°F) | Not evaluated |
| Flammability | Not flammable | Evaporation Rate (n-butyl acetate = 1) | Not evaluated |
| Vapor Density (air = 1) | Not evaluated | Vapor Pressure mm Hg @ 20°C: | Not evaluated |
| Solubility (in water) | Soluble | Relative density (water = 1) | 1.0 |
| Viscosity | Not evaluated | Oil-Water Partition Coefficient | NE |
| VOC | 4g/L (0.3338lb/gal) | HAP | 0g/L (0.000lb/gal) None |
| How To Detect This Substance (Warning Properties): | Odor. | | |

10. STABILITY and REACTIVITY

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| 10.1 | Reactivity | Not considered reactive. |
| 10.2 | Chemical Stability | Stable under normal use and storage. |
| 10.3 | Possibility of hazardous reactions | Hazardous polymerization will not occur. |
| 10.4 | Conditions to avoid | Avoid mixing with incompatible materials. |
| 10.5 | Incompatible Materials | Strong oxidizers, Strong acids. |
| 10.6 | Hazardous Decomposition Products | Thermal decomposition of this product may generate carbon monoxide and carbon dioxide. |

11. TOXICOLOGICAL INFORMATION

11.1 Toxicology Information

Note: This product has not been evaluated for its toxicity as a whole.

| Component | Oral LD ₅₀ (mg/kg) | Dermal LD ₅₀ (mg/kg) | Inhalation LC ₅₀ (mg/m ³) | Skin Irritation | Serious eye damage |
|---------------------------------------------|----------------------------------|------------------------------------|--------------------------------------------------------|--------------------|-----------------------|
| Proprietary blend of surfactants enzymes | No data available | No data available | No data available | YES | Irritation |
| Proprietary blend of solvents | No data available | No data available | No data available | YES | YES |

11.2: Carcinogenicity (IARC, ACGIH, NTP, OSHA)

None of the components are listed as carcinogenic by IARC, ACGIH, NTP or OSHA

11.3: Reproductive toxicity:

None of the components of this product are listed as reproductive toxins on the California Proposition 65 List.

12. ECOLOGICAL INFORMATION

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

12.1 Ecological Information

Note: This product has not been evaluated for its ecologic impact as a whole.

| Component | Toxicity to fish | Toxicity to daphnia | Bioaccumulation | Solubility | Biodegradability |
|----------------------------------------------------------------|----------------------|---------------------------|-------------------|----------------------|--------------------------|
| Proprietary blend of surfactants, fragrances and enzymes | No data available | No data available | No data available | No data available | Readily biodegradable |
| Proprietary blend of solvents | No data available | No data available | Not expected | Soluble | Readily biodegradable |

| | | |
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| 12.2 | Persistence and Degradability | This product is expected to be readily biodegradable |
| 12.3 | Bioaccumulative Potential | This product is not expected to bioaccumulate |
| 12.4 | Mobility in Soil | When spilled onto soil, this product is expected to evaporate slowly. |
| 12.5 | Other Adverse Ecological Effects | This product may be harmful to aquatic life if large volumes of it are released into an aquatic environment. |

13. DISPOSAL CONSIDERATIONS

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|--|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Preparing Wastes of this Product for Disposal | Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations or with local regulations. |
| | Disposal of Contaminated Packaging | Cleaned containers can be recycled or disposed of as non-contaminated waste, if authorized by your local authorities. Dispose of containers as required by local regulations. |
| | U.S. EPA Waste Number | |

14. TRANSPORT INFORMATION

THIS MATERIAL IS NOT DANGEROUS GOODS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION.

ALWAYS CONSULT LATEST REGULATIONS PRIOR TO SHIPPING FOR CHANGES!

Land Transport Australia ADG Code, New Zealand NZS5433, USA US DOT

| | | |
|------|-------------------------------------------|---------------------|
| 14.1 | UN Number | Not dangerous goods |
| 14.2 | UN Proper Shipping Name | |
| 14.3 | Transport Hazard Class(es) | |
| | Transport label(s) required | |
| 14.4 | Packing Group | |
| 14.5 | Marine Pollutant | |
| | NA Emergency Response Guide Number (2012) | |
| | Reportable Quantity (RQ) | |

International Air Transport Association, IATA DGR

| | | |
|------|-----------------------------|---------------------|
| 14.6 | UN Number | Not dangerous goods |
| | UN Proper Shipping Name | |
| | Transport Hazard Class(es) | |
| | Transport label(s) required | |
| | Packing Group | |
| | Marine Pollutant | |
| | Packaging Instructions | |

International Maritime Organization, IMDG Code

| | | |
|------|-------------------------------------------|---------------------|
| 14.7 | UN Number | Not dangerous goods |
| | UN Proper Shipping Name | |
| | Transport Hazard Class(es) | |
| | Transport label(s) required | |
| | Packing Group | |
| | Marine Pollutant | |
| | NA Emergency Response Guide Number (2012) | |

15. SAFETY, HEALTH and ENVIRONMENTAL REGULATIONS SPECIFIC FOR THE PRODUCT

| PROGRAM | Evolution Starch Off |
|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| | |
| Clean Air Act Hazardous Air Pollutants | NO |
| Safe Drinking Water Act | NO |
| RCRA F, K, P, U or D-lists | NO |
| SARA 302 EHS RQ | NO |
| SARA 302 EHS TPQ | NO |
| CERCLA RQ (lbs) | NO |
| SARA 313 LISTED | NO |
| SARA 311/312 ACUTE | NO |
| SARA 311/312 CHRONIC | NO |
| SARA 311/312 FIRE | NO |
| SARA 311/312 PRESSURE | NO |
| SARA 311/312 REACTIVITY | NO |
| EPA EXTREMELY HAZARDOUS SUBSTANCE | NO |
| | |
| PEL | NO |
| PSM | NO |
| | |
| DHS CFATS STQ (Flammable Release) | NO |
| | |
| DEA Controlled Substances | NO |
| DSL | All components of this product are listed in the Canadian DSL, REACH and US TSCA publicly available list |
| NDSL | All components of this product are listed in the Canadian DSL, REACH and US TSCA publicly available list |
| REACH Pre-registered List | All components of this product are listed in the Canadian DSL, REACH and US TSCA publicly available list |
| TSCA (Public) | All components of this product are listed in the Canadian DSL, REACH and US TSCA publicly available list |
| European Inventory of Existing Commercial Chemical Substances (EINECS) | NO |
| EU No-Longer Polymers List (NLP) | NO |
| EEC Classification Packaging, and Labeling of Dangerous Substances(Annex 1) | NO |
| Philippines | NE |

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| Japan | NE |
| Australia | Not hazardous under NOHSC:1008(2004), 3rd Edition. |
| Korea | NE |
| China | NE |
| New Zealand Inventory of Chemicals | NE |

16. OTHER INFORMATION

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| 16.1 | Original Preparation | 14 November 2016 |
| 16.2 | Revision History | 1.1: 22 Aug 2018 1.2: 19 Dec 2018 1.3: 12 July 2022 |
| 16.3 | Prepared by | Grayson Wagner Co Ltd, 4 Cain Rd, Penrose, Auckland 1061, New Zealand |
| 16.4 | Date of Printing | February 9, 2021 |

DEFINITIONS OF TERMS

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| 16.5 | A large number of abbreviations and acronyms appear on a MSDS. Some of these which are commonly used include the following: | |
| | Section 2 | GHS: Global Harmonization System OSHA: U.S. Occupational Safety and Health Administration. CLP: Classification and Packaging WHMIS: Workplace Hazardous Materials Information System STOT: Specific Target Organ Toxicity |
| | Section 3 | CAS #: Chemical Abstract Service index number EINECS #: European Chemical Substances Information System index number |
| | Section 5 | NFPA: Nation Fire Protection Association Health Hazard: 0 (material that on exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials); 1 (materials that on exposure under fire conditions could cause irritation or minor residual injury); 2 (materials that on intense or continued exposure under fire conditions could cause temporary incapacitation or possible residual injury); 3 (materials that can on short exposure could cause serious temporary or residual injury); 4 (materials that under very short exposure could cause death or major residual injury). Flammability Hazard Reactivity Hazard: Refer to definitions for "Hazardous Materials Identification System". Flash Point: Minimum temperature at which a liquid gives off sufficient vapors to form an ignitable mixture with air. Autoignition Temperature: The minimum temperature required to initiate combustion in air with no other source of ignition. LEL: The lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source. UEL: The highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source. |
| | Section 8 | ACGIH - American Conference of Governmental Industrial Hygienists, a professional association which establishes exposure limits. TLV - Threshold Limit Value - an airborne concentration of a substance which represents conditions under which it is generally believed that nearly all workers may be repeatedly exposed without adverse effect. The duration must be considered, including the 8-hour Time Weighted Average (TWA), the 15-minute Short Term Exposure Limit, and the instantaneous Ceiling Level (C). Skin absorption effects must also be considered PEL - Permissible Exposure Limit - This exposure value means exactly the same as a TLV, except that it is enforceable by OSHA. The OSHA Permissible Exposure Limits are based in the 1989 PELs and the June, 1993 Air Contaminants Rule (Federal Register : 58: 35338-35351 and 58: 40191). Both the current PELs and the vacated PELs are indicated. The phrase, "Vacated 1989 PEL," is placed next to the PEL which was vacated by Court Order. IDLH - Immediately Dangerous to Life and Health - This level represents a concentration from which one can escape within 30-minutes without suffering escape-preventing or permanent injury. The DFG - MAK is the Republic of Germany's Maximum Exposure Level, similar to the U.S. PEL. NIOSH is the National Institute of Occupational Safety and Health, which is the research arm of the U.S. Occupational Safety and Health Administration (OSHA). NIOSH issues exposure guidelines called Recommended Exposure Levels (RELs) . When no exposure guidelines are established, an entry of NE (Not Established) is made for reference. |
| | Section 11 | LD₅₀ : Lethal Dose (solids & liquids) which kills 50% of the exposed animals; LC₅₀ : Lethal Concentration (gases) which kills 50% of the exposed animals; ppm: Concentration expressed in parts of material per million parts of air or water; mg/m³ : Concentration expressed in weight of substance per volume of air; mg/kg: Quantity of material, by weight, administered to a test subject, based on their body weight in kg IARC - the International Agency for Research on Cancer; NTP - the National Toxicology Program, RTECS - the Registry of Toxic Effects of Chemical Substances, OSHA and CAL/OSHA. IARC and NTP rate chemicals on a scale of decreasing potential to cause human cancer with rankings from 1 to 4. Subrankings (2A, 2B, etc.) are also used. TDLo , the lowest dose to cause a symptom and |

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| | | <p>TCLo the lowest concentration to cause a symptom; TDo, LDLo, and LDo, or TC, TCo, LCLo, and LCo, the lowest dose (or concentration) to cause lethal or toxic effects. BEI - Biological Exposure Indices, represent the levels of determinants which are most likely to be observed in specimens collected from a healthy worker who has been exposed to chemicals to the same extent as a worker with inhalation exposure to the TLV.</p> |
| | Section 12 | <p>LC₅₀: The lowest concentration in water which kills 50% of the test subjects. EC₅₀: The Effect Concentration in water at which 50% of the test species if affected.</p> |
| | Section 13 | <p>US EPA Hazardous Waste Codes: refer to 40 CFR 261.20</p> |
| | Section 14 | <p>DOT: US Department of Transportation IATA: International Air Transport Association IMO: International Maritime Organization MARPOL: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978 IBC Code : Merchant Shipping Code</p> |
| | Section 15 | <p>RCRA: US Resource Conservation and Recovery Act SARA: US Superfund Amendments and Reauthorization Act PSM: US OSHA Process Safety Management CFATS: US Department of Homeland Security Chemical Facility Anti-terrorism Standard DSL: Canadian Domestic Substances List NDSL: Canadian Non-Domestic Substances List REACH: European Registration, Evaluation, Authorization and Restriction of Chemicals list TSCA: US Toxic Substances Control Act</p> |