| Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS & 2001/58 EC Standards | MSDS Revision: 3.0 | MSDS Revision Date: 03/11/2011 |
|---|---|---|

## 1. PRODUCT IDENTIFICATION

| | |
|---|---|
| 1.1 | Product Name:<br>**OSIS FREEZE STRONG HOLD HAIR SPRAY** |
| 1.2 | Chemical Name:<br>**AEROSOL** |
| 1.3 | Synonyms:<br>**NA** |
| 1.4 | Trade Names:<br>**Osis Freeze Strong Hold Hair Spray** |
| 1.5 | Product Use:<br>**PROFESSIONAL OR SUNDRY USE ONLY** |
| 1.6 | Distributor's Name:<br>**SCHWARZKOPF, INC.** |
| 1.7 | Distributor's Address:<br>**600 CORPORATE POINTE, SUITE 1100, CULVER CITY, CA 90230 USA** |
| 1.8 | Emergency Phone:<br>**CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-9300** |
| 1.9 | Business Phone:<br>**+1 (310) 641-4600** |

## 2. HAZARD IDENTIFICATION

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 2.1 | Hazard Identification:<br>**This product is Classified as a HAZARDOUS SUBSTANCE and as a DANGEROUS GOODS according to the classification criteria of [NOHSC: 1008 (2004)] and ADG Code (Australia). WARNING: Flammable. Contents under pressure. Container may burst if heated. Do not place on hot water, or near radiators, stoves or other sources of heat. Do not puncture or incinerate container or store at temperatures over 120 °F. Do not use near open flame, sparks or other sources of ignition. KEEP OUT OF REACH OF CHILDREN. Avoid getting into the eyes. Use only as directed. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.** | | | | | | |
| 2.2 | Routes of Entry: | Inhalation: | **YES** | Absorption: | **YES** | Ingestion: | **YES** |
| 2.3 | Effects of Exposure:<br>**INGESTION:** May cause a burning sensation of the mouth and throat, abdominal pain, gastrointestinal irritation, nausea, vomiting and diarrhea. May also cause kidney damage, cardiac arrhythmia and Central Nervous System effects (see inhalation). Aspiration of material into the lungs may cause chemical pneumonitis, which can be fatal. Can be fatal if inhaled or ingested.<br>**SKIN & EYES:** May cause irritation, redness and tearing. Vapors may be irritating to the eyes. May cause irritation, defatting, drying and cracking of skin. Prolonged and repeated contact may lead to dermatitis.<br>**INHALATION:** Vapors may be irritating to nose, throat and respiratory tract. Excessive inhalation of vapors may cause kidney damage, cardiac arrhythmia and Central Nervous System effects including dizziness, weakness, fatigue, nausea, headache and possible unconsciousness. | | | | | | |
| 2.4 | Symptoms of Overexposure:<br>**Contact may cause mild eye irritation including stinging, watering and redness. Intentional inhalation of gases may cause headache, fatigue, weakness, mental confusion, mood disturbances and decreased coordination and judgment.** | | | | | | |
| 2.5 | Acute Health Effects:<br>**Intentional inhalation of gases may cause headache, fatigue, weakness, mental confusion, mood disturbances and decreased coordination and impaired judgment.** | | | | | | |
| 2.6 | Chronic Health Effects:<br>**No harmful or chronic health effects are expected to occur from a single accidental ingestion. Intentional and continuous ingestion can cause serious effects on liver and kidneys. Contains denatured alcohol.** | | | | | | |
| 2.7 | Target Organs:<br>**Eyes & skin.** | | | | | | |

NA = Not Available; ND = Not Determined; NE = Not Established; NF=Not Found; C = Ceiling Limit; See Section 16 for Additional Definitions of Terms Used
NOTE: All WHMIS required information is included. It is located in appropriate sections based on the ANSI Z400.1-2010 format.

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS & 2001/58 EC Standards | MSDS Revision: 3.0 | MSDS Revision Date: 03/11/2011

## 3. COMPOSITION & INGREDIENT INFORMATION

| CHEMICAL NAME(S) | CAS No. | RTECS No. | EINECS No. | % | EXPOSURE LIMITS IN AIR (mg/m³) ACGIH ppm TLV | ACGIH ppm STEL | NOHSC ppm ES-TWA | NOHSC ppm ES-STEL | NOHSC ppm ES-PEAK | OSHA ppm TLV | OSHA ppm STEL | OSHA ppm IDLH | OTHER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DENATURED ALCOHOL | 64-17-5 | KQ6300000 | 200-578-6 | ≤ 55.0 | 1900 | NA | 1880 | NF | NA | 1900 | NA | NA | |
| 1,1-DIFLUOROETHANE | 75-37-6 | KI1410000 | 200-866-1 | ≤ 45.0 | 1000 | NA | NF | NF | NF | 1000 | NA | NA | |
| OCTYLACRYLAMIDE/ACRYLATES/ BUTYLAMINOETHYL METHACRYLATE COPOLYMER | NA | NA | NA | NA | NA | NA | NF | NF | NF | NA | NA | NA | |
| AMINOMETHYL PROPANOL | 124-68-5 | UA5950000 | 204-709-8 | NA | NA | NA | NF | NF | NF | NA | NA | NA | |
| BENZOPHENONE-4 | 4065-45-6 | DB50443000 | 223-772-2 | NA | NA | NA | NF | NF | NF | NA | NA | NA | |
| PARFUM (FRAGRANCE) | NA | NA | NA | NA | NA | NA | NF | NF | NF | NA | NA | NA | |
| WATER/AQUA/EAU | 7732-18-5 | ZC0110000 | 231-791-2 | NA | NA | NA | NF | NF | NF | NA | NA | NA | |
| TRIETHYL CITRATE | 77-93-0 | GE8050000 | 201-070-7 | NA | NA | NA | NF | NF | NF | NA | NA | NA | |
| | | | | | | | | | | | | | |

## 4. FIRST AID MEASURES

4.1 First Aid:

**INGESTION:** If ingested, do not induce vomiting. Drink plenty of water or milk. If the patient is vomiting, continue to offer plenty of water or milk. Never give water or milk to an unconscious person. If large quantities are ingested, contact the nearest Poison Control Center or local emergency number. Provide an estimate of the time and amount of the substance that was swallowed. Get medical attention immediately.

**EYES:** If product is in the eyes, flush with copious amounts of lukewarm water for at least 15 minutes. Open and close eyelid(s) to ensure thorough irrigation. If problem persists, consult a physician.

**SKIN:** If redness, dryness or other signs of irritation to the skin develop, remove contaminated clothing and wash affected skin areas with plenty of warm water and soap. If irritation persists, consult a physician.

**INHALATION:** Remove victim to fresh air at once. Give oxygen as necessary.

4.2 Medical Conditions Aggravated by Exposure:

**None known.**

| | |
|---|---|
| HEALTH | 2 |
| FLAMMABILITY | 3 |
| PHYSCIAL HAZARDS | 0 |
| PROTECTIVE EQUIPMENT | B |

| EYES | SKIN | | |
|---|---|---|---|

## 5. FIREFIGHTING MEASURES

| | | | | | |
|---|---|---|---|---|---|
| 5.1 | Flashpoint & Method:<br>**NA** | | | | |
| 5.2 | Autoignition Temperature:<br>**NA** | | | | |
| 5.3 | Flammability Limits: | Lower Explosive Limit (LEL): | **NA** | Upper Explosive Limit (UEL): | **NA** |
| 5.4 | Fire & Explosion Hazards:<br>**Level 2 Aerosol (NFPA 30B). Aerosols may burst at temperatures above 120 °F. Cool uninvolved containers to prevent possible bursting. Aerosols may be projectile hazards when bursting. If aerosols are bursting, stay clear until bursting is complete.** | | | | |
| 5.5 | Extinguishing Methods:<br>**Water Fog, Foam, Dry Chemical, $CO_2$** | | | | |
| 5.6 | Firefighting Procedures:<br>**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 boilover. 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. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| 6.1 | Spills:<br>**Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment.**<br>**Large Spills: Keep sources of ignition and hot metal surfaces isolated from spill. Stay upwind and away from spill or release. Isolate immediate hazard area and keep unauthorized personnel out of area. Stop spill or release if it can be done with minimal risk. Wear appropriate protective equipment including respiratory protection as conditions warrant. Water may be useful in minimizing or dispersing vapors. Keep out of water supplies.** |

## 7. HANDLING & STORAGE INFORMATION

| | |
|---|---|
| 7.1 | Work & Hygiene Practices:<br>**Do not eat, drink or smoke when handling this product. Contents under pressure. Handle as to avoid puncturing container(s). When used as intended, no additional protective equipment is necessary. Use chemical goggles if eye contact is possible. Wash unintentional residues with soap and warm water.** |
| 7.2 | Storage & Handling:<br>**Use and store in a cool, dry, well-ventilated location (e.g., local exhaust ventilation, fans) away from heat and direct sunlight. Avoid temperatures above 120 °F. Keep away from incompatible substances. Protect containers from physical damage. To avoid unintentional spraying keep cap in place when not in use.** |
| 7.3 | Special Precautions:<br>**Spilled material may present a slipping hazard if left unattended. Clean all spills promptly.** |

## 8. EXPOSURE CONTROLS & PERSONAL PROTECTION

| | |
|---|---|
| 8.1 | Ventilation & Engineering Controls:<br>**General mechanical (e.g., fans) or natural ventilation is sufficient when this product is in use. Use local or general exhaust ventilation to effectively remove and prevent buildup of vapors or mist generated from the handling of this product.** |
| 8.2 | Respiratory Protection:<br>**None required if used in a well-ventilated area. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrants a respirator's use.** |
| 8.3 | Eye Protection:<br>**Avoid eye contact. Use approved safety glasses or goggles.** |
| 8.4 | Hand Protection:<br>**None required under normal conditions of use. However, may cause skin irritation in some sensitive individuals. When handling large quantities (e.g., ≥ 1 gallon), wear rubber or impervious plastic gloves.** |
| 8.5 | Body Protection:<br>**No apron required when handling small quantities. When handling large quantities (e.g., ≥ 1 gallon), eye wash stations and deluge showers should be available.** |

## 9. PHYSICAL & CHEMICAL PROPERTIES

| | | |
|---|---|---|
| 9.1 | Density: | **NA** |
| 9.2 | Boiling Point: | **NA** |
| 9.3 | Melting Point: | **NA** |
| 9.4 | Evaporation Rate: | **NA** |
| 9.5 | Vapor Pressure: | **ND** |
| 9.6 | Molecular Weight: | **NA** |
| 9.7 | Appearance & Color: | **Aerosol, characteristic alcohol odor.** |
| 9.8 | Odor Threshold: | **ND** |
| 9.9 | Solubility: | **Soluble in water** |
| 9.10 | pH | **9.70 – 10.0 @ 25 °C** |
| 9.11 | Viscosity: | **NA** |
| 9.12 | Other Information: | **NA** |

## 10. STABILITY & REACTIVITY

| | |
|---|---|
| 10.1 | Stability:<br>**This product is stable.** |
| 10.2 | Hazardous Decomposition Products:<br>**Oxides of carbon (CO, $CO_2$) and sulfur ($SO_2$)** |
| 10.3 | Hazardous Polymerization:<br>**Will not occur.** |
| 10.4 | Conditions to Avoid:<br>**Open flames, sparks, high heat and direct sunlight.** |
| 10.5 | Incompatible Substances:<br>**None known.** |

## 11. TOXICOLOGICAL INFORMATION

| | |
|---|---|
| 11.1 | Toxicity Data:<br>**The product has not been tested for specific toxicity data.** |
| 11.2 | Acute Toxicity:<br>**See section 2.5** |
| 11.3 | Chronic Toxicity:<br>**See section 2.6** |
| 11.4 | Suspected Carcinogen:<br>**NO** |
| 11.5 | Reproductive Toxicity:<br>**This product is not reported to produce reproductive toxicity in humans.** |
| | Mutagenicity:<br>**This product is not reported to produce mutagenic effects in humans.** |
| | Embryotoxicity:<br>**This product is not reported to produce embryotoxic effects in humans.** |
| | Teratogenicity:<br>**This product is not reported to produce teratogenic effects in humans.** |
| | Reproductive Toxicity:<br>**This product is not reported to produce reproductive effects in humans.** |
| 11.6 | Irritancy of Product:<br>**See Section 2.3** |
| 11.7 | Biological Exposure Indices:<br>**NE** |
| 11.8 | Physician Recommendations:<br>**Treat symptomatically.** |

## 12. ECOLOGICAL INFORMATION

| | |
|---|---|
| 12.1 | Environmental Stability:<br>**There is no specific data available for this product.** |
| 12.2 | Effects on Plants & Animals:<br>**There is no specific data available for this product.** |
| 12.3 | Effects on Aquatic Life:<br>**There is no specific data available for this product.** |

## 13. DISPOSAL CONSIDERATIONS

| | |
|---|---|
| 13.1 | Waste Disposal:<br>**Dispose of in accordance with federal, state and local regulations.** |
| 13.2 | Special Considerations:<br>**U.S. EPA Characteristic Waste: D001 (characteristic - ignitable)** |

## 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.

| | |
|---|---|
| 14.1 | 49 CFR (GND):<br>**CONSUMER COMMODITY, ORM-D** |
| 14.2 | IATA (AIR):<br>**ID8000, CONSUMER COMMODITY, 9 (≤500 ml Each)**<br>**UN1950, AEROSOLS, 2.1, LTD QTY (≤30 kg/pkg)**<br>**UN1950, AEROSOLS, 2.1** |
| 14.3 | IMDG (OCN):<br>**UN1950, AEROSOLS, 2.1, LTD QTY (≤30 kg/pkg)**<br>**UN1950, AEROSOLS, 2.1** |
| 14.4 | TDGR (Canadian GND):<br>**MARK PACKAGE "LIMITED QUANTITY" or "QUANTITÉ LIMITÉE" or "LTD QTY" or "QUANT LTÉE"**<br>**UN1950, AEROSOLS, 2.1** |
| 14.5 | ADR/RID (EU):<br>**UN1950, AEROSOLS, 2.1, LTD QTY, *ADR*** |
| 14.6 | SCT (MEXICO):<br>**UN1950, AEROSOLES, 2.1, CANTIDAD LIMITADA** |
| 14.7 | ADGR (AUS):<br>**UN1950, AEROSOLS, 2.1** |


## 15. REGULATORY INFORMATION

| | |
|---|---|
| 15.1 | SARA Reporting Requirements:<br>**NA** |
| 15.2 | SARA Threshold Planning Quantity:<br>**1,1-difluoroethane: 10,000 lbs; 4536 kg.** |
| 15.3 | TSCA Inventory Status:<br>**All chemical substances of this product are listed on the TSCA inventory or are otherwise exempted from inventory status.** |
| 15.4 | CERCLA Reportable Quantity (RQ):<br>**NA** |
| 15.5 | Other Federal Requirements:<br>**This product complies with the appropriate sections of the Food and Drug Administration's 21 CFR subchapter G (Cosmetics).**<br>**Clean Air Act: This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depletors. This material does not contain any Class 2 Ozone depletors.**<br>**Clean Water Act: None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.**<br>**OSHA: None of the chemicals in this product are considered highly hazardous by OSHA.** |

## 15. REGULATORY INFORMATION - continued

| | | |
|---|---|---|
| 15.6 | Other Canadian Regulations:<br>**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.** |  |
| 15.7 | State Regulatory Information:<br>**Ethanol can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, and Massachusetts. California Prop 65: No Significant Risk Level.** | |
| 15.8 | 67/548/EEC (European Union) Requirements:<br>**The primary component of this product is listed in Annex I of EU Directive 67/548/EEC:**<br>**Ethanol: Flammable (F+) Highly flammable R: 11 Highly flammable. S: (2)-7-16 Keep out of reach of children. Keep container tightly closed. Keep away from sources of ignition - No smoking.** |  |

## 16. OTHER INFORMATION

| | | |
|---|---|---|
| 16.1 | Other Information:<br>**For external use only. Use only as directed. Discontinue use immediately if irritation develops.** | |
| 16.2 | Terms & Definitions:<br>**Please see last page of this MSDS.** | |
| 16.3 | Disclaimer:<br>**This Material 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 & Schwarzkopf's 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:<br>**Schwarzkopf, Inc.**<br>**600 Corporate Pointe, Suite 1100**<br>**Culver City, CA 90230 USA**<br>**Tel: +1 (310) 641-4600**<br>**Fax: +1 (310) 641-4601**<br>**http://www.schwarzkopf.com** | Schwarzkopf PROFESSIONAL |
| 16.5 | Prepared by:<br>**ShipMate, Inc.**<br>**P.O. Box 787**<br>**Sisters, OR. 97759-0787**<br>**+1-310-370-3600 phone**<br>**+1-310-370-5700 fax**<br>**http://www.shipmate.com** | ShipMate® Dangerous Goods Training & Consulting |

## DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a MSDS. 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 |
| **TLV** | Threshold Limit Value |
| **OSHA** | U.S. Occupational Safety and Health Administration |
| **PEL** | Permissible Exposure Limit |
| **IDLH** | Immediately Dangerous to Life and Health |

**FIRST AID MEASURES:**

| | |
|---|---|
| **CPR** | Cardiopulmonary resuscitation - method in which a person whose heart has stopped receives manual chest compressions and breathing to circulate blood and provide oxygen to the body. |

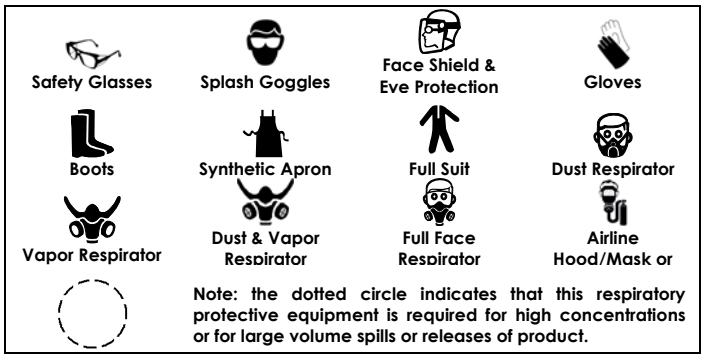
**HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS**

**HEALTH, FLAMMABILITY & REACTIVITY RATINGS:**

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


**PERSONAL PROTECTION RATINGS:**

| | |
|---|---|
| **A** | |
| **B** | |
| **C** | |
| **D** | |
| **E** | |
| **F** | |
| **G** | |
| **H** | |
| **I** | |
| **J** | |
| **K** | |
| **X** | **Consult your supervisor or S.O.P. for special handling directions.** |




**FLAMMABILITY LIMITS IN AIR:**

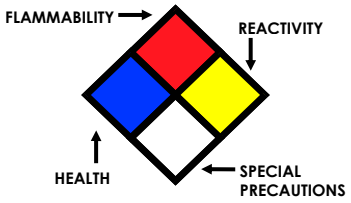
| | |
|---|---|
| **Autoignition Temperature** | Minimum temperature required to initiate combustion in air with no other source of ignition |
| **LEL** | Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source |
| **UEL** |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

**OTHER STANDARD ABBREVIATIONS:**

| | |
|---|---|
| **NA** | Not Available |
| **NR** | No Results |
| **NE** | Not Established |
| **NF** | Not Found |
| **ND** | Not Determined |
| **ML** | Maximum Limit |
| **SCBA** | Self-Contained Breathing Apparatus |

**NATIONAL FIRE PROTECTION ASSOCIATION: NFPA 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 |




**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 |
| **$TD_{lo}$** | Lowest dose to cause a symptom |
| **TCLo** | Lowest concentration to cause a symptom |
| **$TD_{lo}$, $LD_{lo}$, & $LD_o$ or TC, $TC_o$, $LC_{lo}$, & $LC_o$** | Lowest dose (or concentration) to cause lethal or toxic effects |
| **IARC** | International Agency for Research on Cancer |
| **NTP** | National Toxicology Program |
| **RTECS** | Registry of Toxic Effects of Chemical Substances |
| **BCF** | Bioconcentration Factor |
| **$TL_m$** | Median threshold limit |
| **log $K_{OW}$ or log $K_{OC}$** | Coefficient of Oil/Water Distribution |

**REGULATORY INFORMATION:**

| | |
|---|---|
| **WHMIS** | Canadian Workplace Hazardous Material Information System |
| **DOT** | U.S. Department of Transportation |
| **TC** | Transport Canada |
| **EPA** | U.S. Environmental Protection Agency |
| **DSL** | Canadian Domestic Substance List |
| **NDSL** | Canadian Non-Domestic Substance List |
| **PSL** | Canadian Priority Substances List |
| **TSCA** | U.S. Toxic Substance Control Act |
| **EU** | European Union (European Union Directive 67/548/EEC) |
| **CPR** | Canada's Controlled Product Regulations |

**EC INFORMATION:**

| C | E | F | N | O | T+ | Xi | Xn |
|---|---|---|---|---|---|---|---|
| Corrosive | Explosive | Flammable | Harmful | Oxidizing | Toxic | Irritant | Harmful |

**WHMIS INFORMATION:**

| A | B | C | D1 | D2 | D3 | E | F |
|---|---|---|---|---|---|---|---|
| Compressed | Flammable | Oxidizing | Toxic | Irritation | Infectious | Corrosive | Reactive |