

SAFETY DATA SHEET

FORMULA 801

SECTION 1- PRODUCT IDENTIFICATION

PRODUCT NAME : FORMULA 801
SYNONYMS : Product is a mixture: No synonyms are available.
PRODUCT USE : Flammable Material
SUPPLIER : HYDRAMASTER CORP.
SUPPLIER'S ADDRESS : 11015 47TH AVE. W, MUKILTEO, WA 98275,
(425) 775-7272
EMERGENCY RESPONSE PHONE NUMBER : PERS: 1-800-633-8253

SECTION 2 – HAZARD IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

GHS U.S. – CLASSIFICATION : H302 Harmful if swallowed.
H315 Causes skin irritation
H319 Causes serious eye irritation

LABEL ELEMENTS : **GHS – US HAZARD PICTOGRAMS** The product is classified and labeled according to the Globally Harmonized System (GHS).

HAZARD PICTOGRAMS :



SIGNAL WORD : WARNING

HAZARD STATEMENTS (GHS-US)

: H226 Flammable liquid and vapor
: H303 May be harmful if swallowed.
: H315 Causes skin irritation.
: H317 May cause an allergic skin reaction
: H319 Causes serious eye irritation.
: H336 May cause drowsiness or dizziness.
: H400 Very toxic to aquatic life.

PRECAUTIONARY STATEMENTS (SGS-US)

PREVENTION

: 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/sparks/open flames/hot surfaces – No smoking.
: P233 Keep container tightly closed.
: P240 Ground/bond container and receiving equipment.
: P241 Use explosion proof electrical/ventilation/light...equipment
: P242 Use only non-sparking tools.
: P243 Take precautionary measures against static discharge.
: P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
: P264 Wash skin and contaminated clothing thoroughly after handling.
: P270 Do not eat, drink or smoke when using this product.
: P271 Use only outdoors or in a well ventilated area.
: P280 Wear suitable protective gloves/protective clothing/eye protection/face protection.

RESPONSE

: P305+P351 IF IN EYES: Rinse cautiously with water for several minutes. Remove

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- +P338 contact lenses if present and easy to do – continue rinsing.
 - : P337+P313 If eye irritation persists, get medical attention.
 - : P303+P361 IF ON SKIN: Remove/Take off immediately all contaminated clothing.
 - +351 Rinse skin with water/shower.
 - : P304+P340 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable to breathing.
 - : P337+P313 If eye irritation persists: Get medical advice/attention.
 - : P403+P233 Store in a well ventilated place. Keep container tightly closed.
 - P403+P235 Store in a well ventilated place. Keep cool.
 - : P405 Store locked up.
 - : P501 Dispose of contents/container in accordance with local/regional/national/international regulations
- STORAGE**
- DISPOSAL**
- OSHA HAZARDS** : D-Limonene: Combustible Liquid, Target Organ Effect, Skin Sensitizer, Irritant. Target Organ Effect: Glycol Ether DPM.
- TARGET ORGANS** : Kidney, Liver, Nerves (Glycol Ether DPM).
: Not applicable.
- CLASSIFICATION SYSTEM** : NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme.
- NFPA RATINGS (SCALE 0-4)** : Health = 1, Fire = 2, Reactivity = 0
- HMIS RATINGS (SCALE 0-5)** : Health = 1, Fire = 2, Reactivity = 0

CLASSIFICATION SYSTEM: NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme.
NFPA ratings (scale 0-4): Health = 2, Fire = 2, Reactivity = 0
HMIS ratings (scale 0-5): Health = 2, Fire = 2, Reactivity = 0

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

- CHEMICAL CHARACTERISTIC** : Mixtures
- DESCRIPTION** : Mixture of the substances listed below with nonhazardous additions.

COMPONENT	PERCENT	CAS #	EC #	GHS CLASS
Mineral Spirits Odorless	> 80	64741-65-7 64742-48-9	265-150-3	Flam Liq Cat 3, Skin Irrit Cat 2, Eye Irrit Cat 2A, STOT-SE Cat 3, Aspiration Haz Cat 1
D-Limonene (Citrus Terpenes)	1-5	5989-27-5	227-813-5	Flam Liq Cat 3, Acute Tox Oral Cat 5, Skin Irrit Cat 2, Eye Irrit Cat 2A, Skin Sens Cat 1, Acute Tox Aquatic Cat 1
Dipropylene glycol methyl ether	1-5	34590-94-8	252-104-2	Eye Irrit: Cat 2B
Propylene Glycol Butyl Ether	1-5	5131-66-8 & 18821-83-7	225-878-4	Skin Irrit. Cat 2, Eye Irrit. Cat 2A --
Alcohols (C9-11) Ethoxylated	0.1-1	68439-46-3	Not Found	Eye Irrit Cat 2B

Irrit = Irritation, Cor = Corrosive, Dam = Damage, Cat = Category, Tox = Toxic, Sens = Sensitisation, Flam = Flammable.

SECTION 4 – FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

- GENERAL** : If you feel unwell, seek medical advice. Show the label where possible. Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area
- EYE CONTACT** : Immediately flush eyes with low pressure water for at least 15 minutes. Hold eyelids

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- open to ensure adequate flushing. Remove contact lenses, if present and easy to do so. Continue rinsing. If irritation persists, get immediate medical attention.
- SKIN CONTACT** : Remove contaminated clothing and shoes. Wash affected skin area with soap and water. If irritation persists, get immediate medical attention. Wash contaminated clothing before reuse.
- SWALLOWING (INGESTION)** : If ingested, dilute swallowed material by drinking water. **DO NOT INDUCE VOMITING.** If vomiting occurs spontaneously, keep airway clear and have victim lean forward to prevent aspiration. Give more water when vomiting stops. Never give anything by mouth to an unconscious person. Get immediate medical attention.
- INHALATION** : Remove to fresh air. If signs/symptoms continue, get medical attention. Give oxygen or artificial respiration as needed.
- OTHER INSTRUCTIONS** : Rescue personnel must wear appropriate protective equipment during removal of victims from contaminated areas. Treat symptomatically and supportively.

SECTION 5 – FIRE FIGHTING MEASURES

- EXTINGUISHING MEDIA** : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- CONDITIONS OF FLAMMABILITY** : Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat, sparks, open flames and hot surfaces. No smoking.
- SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE FIGHTERS** : Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Keep unopened containers cool by spraying with water
- FURTHER INFORMATION** : Use water spray to cool unopened containers.
- HAZARDOUS COMBUSTION PRODUCTS** : Carbon oxides

SECTION 6 – ACCIDENTAL RELEASE MEASURES

- PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT & EMERGENCY PROCEDURES** : Do not inhale vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Restrict access to keep out unauthorized or unprotected personnel. Wear protective equipment. Avoid inhalation and direct contact.
- ENVIRONMENTAL PROCEDURES METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN-UP** : Keep spilled material away from sewage/drainage systems and waterways.
- : All clean-up personnel must be properly trained. Confine the spill and remove incompatible materials and ignition sources. Ensure adequate ventilation. Secure the source of the leak if conditions are safe. Collect with an electrically protected vacuum cleaner or by wet-brushing and place waste in an appropriate container for disposal. Use care during clean-up to avoid exposure to the material and injury from broken containers.

SECTION 7 – HANDLING AND STORAGE

- PRECAUTIONS FOR SAFE HANDLING** : Do not get on skin or in eyes. Do not inhale vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge.
- ENVIRONMENTAL PRECAUTIONS** : Stop leak. Contain spill if possible and safe to do so. Prevent product from entering drains.
- CONDITIONS FOR SAFE STORAGE** : Keep container tightly closed in a cool, dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Protect containers from heat, physical damage, ignition sources and incompatible materials. Have emergency equipment for fires and spills readily available.

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SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

TLV (THRESHOLD LIMIT VALUE) : The TLV in section in section III is the ACGIH/TLV-TWA (threshold limit value/time weighted average concentration for an eight hour work day). The STEL is the short term exposure limit and the (Ceil) is the ceiling limit.

COMPONENT	OSHA PEL – TWA	ACGIH – TLV	ACGIH – STEL
Mineral Spirits Odorless	500 ppm	500 ppm	Not Established
D-Limonene (Citrus Terpenes)	Not Established	Not Established	Not Established
Dipropylene glycol methyl ether	100 ppm, 600mg/m ³	100 ppm	150 ppm
Propylene Glycol Butyl Ether	Not Established	Not Established	Not Established
Alcohols (C9-11) Ethoxylated	Not Established	Not Established	Not Established

EYE PROTECTION : Use chemical safety goggles and/or a full face shield where splashing is possible. Use equipment approved by appropriate government standards, such as NIOSH (US) or EN166 (EU) Maintain eye wash fountain and quick-drench facilities in work area.

SKIN PROTECTION : Wear impervious, flame retardant, antistatic protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

RESPIRATORY PROTECTION : Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

HAND PROTECTION : Handle with gloves. Gloves must be inspected prior to use. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

APPROPRIATE ENGINEERING CONTROLS : General room or local exhaust ventilation is usually required to meet exposure limit(s). Electrical equipment should be grounded and conform to applicable electrical code.

ADDITIONAL MEASURES : Emergency eyewash and safety shower facilities should be available in the immediate work area.

REQUIRED WORK/HYGIENE : Wash hands thoroughly after handling. Keep away from all food stuffs, beverages and feed. Do not eat, drink or smoke in work area.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE : Mostly clear colorless liquid with citrus odor.
ODOR : Mild odor
ODOR THRESHOLD : Not available
PH : N/A
MELTING POINT/FREEZING POINT : Not available
BOILING POINT : Approx. 212° F.
FLASH POINT : 118°F (48°C) closed cup.
EVAPORATION RATE : Not available
FLAMMABILITY : Combustible liquid. By air or international: Flammable Liquid.
LOWER FLAMMABILITY LIMIT : 0.7 % (V)

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UPPER FLAMMABILITY LIMIT	: 6.1 % (V)
VAPOR PRESSURE	: Not available
VAPOR DENSITY (AIR=1)	: Not available
RELATIVE DENSITY	: 0.77
SOLUBILITY IN WATER	: Soluble in water
PARTITION COEFFICIENT n- OCTANOL/WATER	: Not available
AUTOIGNITION TEMPERATURE	: Not available
DECOMPOSITION TEMPERATURE	: Not available

SECTION 10 – STABILITY AND REACTIVITY

STABILITY	: Stable under recommended storage conditions.
HAZARDOUS CONDITIONS TO AVOID	: Heat, flames, and sparks. Extreme temperatures and direct sunlight.
INCOMPATIBLE MATERIALS	: Strong oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS	: Carbon oxides are expected to be, under fire conditions, the primary hazardous decomposition products.

SECTION 11 – TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION	: Mineral Spirits Odorless
ACUTE ORAL TOXICITY (64741-65-7)	: LD50 (rat): > 2,000 mg/kg, Assessment: The substance or mixture has no acute oral toxicity, Acute inhalation toxicity: Remarks: No data available. Acute Dermal Toxicity: > 2,000 mg/kg. Assessment: The substance has not acute dermal toxicity.
ACUTE ORAL TOXICITY (64742-48-9)	: LD50 (rat): > 5,000 mg/kg, Acute inhalation toxicity: LC50 (rat): > 5610. Assessment: The component/mixture is low toxic after short term inhalation. Acute dermal toxicity: LD50 (rabbit): > 3,000 mg/kg
SKIN & EYE CORROSION/IRRITATION	: Irritating to skin. Species: rabbit Result: Irritating to skin. Exposure time: 4 h Method: OECD Test Guideline 404 Result: Irritating to skin. Irritating to eyes. Species: rabbit Result: irritating to eyes. Method: OECD Test Guideline 405
MUTAGENICITY	: Mutagenicity classification not possible from current data.
REPRODUCTIVE TOXICITY	: Fertility classification not possible from current data. Embryo-toxicity classification not possible from current data.
STOT-SE INHALATION	: Central nervous system: May cause drowsiness or dizziness.
STOT-RE INHALATION	: No data available.
ASPIRATION TOXICITY	: May be fatal if swallowed and enters airways.
TOXICOLOGICAL INFORMATION	: D-Limonene (Citrus Terpenes)
ACUTE TOXICITY	: LD50 Oral (rat): >5000 mg/kg. LD50 Dermal (rabbit): >5,000 mg/kg, RD50 Inhalation (mice): > 1,000 mg/kg.
IRRITATION	: Prolonged or repeated exposure can cause drying or dermatitis of skin.
BIOACCUMULATION	: No appreciable bio-concentration is expected in the environment.
CARCINOGENICITY	: This product is not classified as a carcinogen by OSHA, IARC, ACGIH or NTP.
TOXICOLOGICAL INFORMATION	: Dipropylene Glycol Methyl Ether
ACUTE TOXICITY	: LD50 values: Oral LD50: 5152 mg/kg (rat). LC50 dermal and inhalation: Not listed. Eyes: Rabbit: Mild Irritation: 25 hours.
CARCINOGENICITY	: No component of this product present at levels greater than or equal to 0.1% is identified as probable or confirmed human carcinogen by IARC, ACGIH, NTP, and OSHA.

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TOXICOLOGICAL INFORMATION	: Propylene Glycol Butyl Ether
ACUTE TOXICITY	: LD 50 Rat: 2,200 mg/kg
ACUTE INHALATION TOXICITY	: No data available
ACUTE DERMAL TOXICITY	: LD 50 Rabbit: 3,100 mg/kg
TOXICOLOGICAL INFORMATION	: Alcohols (C9-11), Ethoxylated
ACUTE TOXICITY	: LD50 Oral (rat): 1,378 mg/kg,
INHALATION LC50	: No data available.
DERMAL LD50	: LD50 Dermal (rat): > 5,000 mg/kg.
PRIMARY SKIN IRRITATION	: (Rabbit) Moderate to severely irritating.
PRIMARY EYE IRRITATION	: (Rabbit) Severely irritating.

SECTION 12 – ECOLOGICAL INFORMATION
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ECOLOGICAL INFORMATION	: Mineral Spirits Odorless
ACUTE AQUATIC TOXICITY	: Toxic to aquatic life
CHRONIC AQUATIC TOXICITY	: Toxic to aquatic life with long lasting effects.
PERSISTENCE AND DEGRADABILITY	: Partition coefficient: noctanol/water : log Pow: 3.3 - 5.3
BIOACCUMULATIVE POTENTIAL	: No data available.

ECOLOGICAL INFORMATION	: D-Limonene (Citrus Terpenes)
ECOTOXICITY	: There is no information available at this time for this product. However, a spill may produce significant toxicity to aquatic organisms and ecosystems. Some studies have shown that certain bacteria and fungi have the ability to degrade citrus terpenes, decreasing their toxicity to fish. When spilled, this product may act as an oil, causing a film, sheen, emulsion or sludge at or beneath the surface of a body of water
MOBILITY	: Citrus Terpenes volatilize rapidly.
PERSISTENCE AND DEGRADABILITY	: Readily biodegradable.
BIOACCUMULATIVE POTENTIAL	: Bio-concentration is not expected to occur.

ECOLOGICAL INFORMATION	: Dipropylene Glycol Methyl Ether
ECOTOXICITY (aquatic and terrestrial, where available):	
ACUTE FISH TOXICITY	: LC50 / 96 hours Fathead Minnow - >10,000 mg/L
TOXICITY TO DAPHNIA	: EC50 / 48 hours Water flea - 1,919 mg/L
PERSISTENCE AND DEGRADABILITY	: No data available.
BIOACCUMULATIVE POTENTIAL	: No data available.

ECOLOGICAL INFORMATION	: Propylene Glycol Butyl Ether
ECOTOXICITY: TOXICITY TO FISH	: No data available
TOXICITY TO DAPHNIA	: No data available
TOXICITY TO ALGAE	: No data available
TOXICITY TO BACTERIA	: No data available

ECOLOGICAL INFORMATION	: Alcohols (C9-11) Ethoxylated
ECOTOXICITY	: LC50 Rainbow Trout: 1-10 mg/l, 96hr. Value estimated from tests on similar products. LC50 Fathead Minow: 6 mg/l, 96hr. Value estimated from tests on similar products.
BIODEGRADABILITY	: Readily biodegradable.
PERSISTENCE AND DEGRADABILITY	: No data available.

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BIOACCUMULATIVE POTENTIAL : No data available.

SECTION 13 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL : This product must be disposed of in accordance with Federal, state and local environmental regulations. Discarded materials may be considered hazardous waste due to pH/corrosivity. It is the responsibility of the product user to determine at the time of disposal whether a material containing, or derived from this product, should be classified as a hazardous waste.

SECTION 14 – TRANSPORTATION INFORMATION

DOT/IMDG/ IATA PROPER SHIPPING NAME : UN-1268, PETROLEUM DISTILLATES, N.O.S. 3, PG-III
(When shipped by air or international)

SPECIAL NOTES : The flash point for this material is greater than 100 F (38 C). Therefore, in accordance with 49 CFR 173.150(f) non-bulk containers (<450L or <119 gallon capacity) of this material may be shipped as nonregulated when transported solely by land, as long as the material is not a hazardous waste, a marine pollutant, or specifically listed as a hazardous substance.

HAZARD CLASS AND LABEL : 3 (Flammable Liquid)(When shipped by air or international)

UN NUMBER : UN-1268 (When shipped by air or international)

PACKAGING GROUP : PG - III (when shipped air or international)

EPA REPORTABLE QUANTITY (RQ) : Not Applicable.

MARINE POLLUTANT : D-limonene: Dipentene,

EMERGENCY RESPONSE GUIDE : ERG-128

SECTION 15 – REGULATORY INFORMATION

U.N. GHS CLASSIFICATION & LABELING INFORMATION: See Section 2 for GHS Hazard Information.

U.S. FEDERAL REGULATORY INFORMATION:

LISTED CARCINOGEN : Not listed.

TSCA STATUS : The ingredients of this product are listed in TSCA inventory (40CFR 710.)

SARA SECTION 302 : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA SECTION 311/312 : Fire hazard, acute health hazard, chronic health hazard.

SARA SECTION 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

CERCLA : No chemicals in this material with known CAS numbers are subject to the reporting requirements of CERCLA RQ.

NFPA HEALTH : 1

NFPA FLAMMABILITY : 2

NFPA REACTIVITY : 0

CLEAN AIR ACT : This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61). This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F). This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

CLEAN WATER ACT : This product does not contain any Hazardous Substances listed under the U.S. Clean Water Act, Section 311, Table 116.4A. This product does not contain any Hazardous Chemicals listed under the U.S. Clean-Water Act, Section 311, Table

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117.3. This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307.

EUROPEAN UNION REGULATORY INFORMATION:

EC CLASSIFICATION : Flammable, Irritant
DSD/DPD RISK (R) PHRASES : R22: Harmful if swallowed.
R36: Irritating to skin.
DSD/DPD SAFETY (S) PHRASES : S2: Keep out of reach of children.
S7: Keep container tightly closed.
S16: Keep away from sources of ignition – No smoking
S24/25: Avoid contact with eyes and skin.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/S37/39: Wear suitable protective clothing, gloves and eye/face protection.
S45: In case of accidents or if you feel unwell, seek medical advice immediately. Show label where possible.
S61: Avoid release to the environment.
S62: If swallowed, do not induce vomiting.
S64: If swallowed, rinse mouth with water if victim is conscious.



DSD/DPD HAZARD SYMBOL : F: Flammable, Xi: Irritant

CANADIAN REGULATORY INFORMATION:

WHMIS CATEGORY : B3: Combustible Liquid
D2A: Very Toxic Material Causing Other Toxic Effects
D2B: Toxic Material Causing Other Toxic Effects



DOMESTIC SUBSTANCES LIST (DSL) : Listed

INGREDIENT DISCLOSURE LIST : Listed

SECTION 16 – OTHER INFORMATION

DISCLAIMER : The information contained herein has been compiled from sources believed to be reliable and accurate to the best of our knowledge at this date. It is provided without warranty, expressed or implied, as to the results of use of this information or to the product to which it relates. Hydramaster Corp. assumes no responsibility for injury to any person or property resulting from any use of the material. Each user assumes the risk in their use of this product and should review the data and recommendations in the specific context of their intended use.

CERCLA : Comprehensive Environmental Response, Compensation, and Liability Act.
EINECS : European Inventory of Existing Commercial Chemical Substances
IMDG : International Maritime Code for Dangerous Goods
IARC : International Agency for Research on Cancer
IATA : International Air Transportation Association
ACGIH : American Conference of Governmental Industrial Hygienists
NFPA : National Fire Protection Association (USA)
NTP : National Toxicology Program
SARA : Superfund Amendments and Reauthorization Act
TSCA : Toxic Substances Control Act
HMIS : Hazardous Materials Identification System (USA)

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WHMIS	: Workplace Hazardous Materials Information System
LC50	: Lethal concentration, 50 percent
LD50	: Lethal dose, 50 percent
STOT	: Systemic Target Organ Toxicity
DATE PREPARED	: JAN 12, 2011
DATE REVISED	: JAN 12, 2014