

# Safety Data Sheet

## BRITE WHITE 425

### SECTION 1- PRODUCT IDENTIFICATION

**PRODUCT NAME** BRITE WHITE 425  
**SYNONYMS** Product is a mixture: No synonyms are available  
**PRODUCT USE** Highly Alkaline Material  
**SUPPLIER** WESMAR CO. INC.  
**SUPPLIER'S ADDRESS** 5720 204<sup>TH</sup> ST. SW, LYNNWOOD, WA 98036  
 (206) 783-5344  
**EMERGENCY RESPONSE PHONE** PERS: 1-800-633-8253



### SECTION 2 – HAZARD IDENTIFICATION

**GHS – US CLASSIFICATION** : H290 Metal corrosion Category 1  
 : H302 Harmful if swallowed  
 : H314 Skin Corrosion Category 1A  
 : H318 Serious Eye Damage Category 1

**HAZARD PICTOGRAMS** :



**SIGNAL WORD** : **DANGER**

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

**GHS PHYSICAL HAZARDS** : H290 May be corrosive to metals.

**GHS HEALTH HAZARDS** : H302 Harmful if swallowed

: H314 Causes severe skin burns and eye damage.

: H318 Causes serious eye damage.

: H370 Causes damage to respiratory system by inhalation.

**GHS PRECAUTIONARY HAZARDS** : 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.  
 : P260 Do not breathe 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.  
 : P280 Wear suitable protective gloves / protective clothing / eye protection / face protection.  
 : P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
 : P303+P361 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 : P305+P351 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 : P305+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position.  
 : P310 Immediately call a POISON CENTER or doctor/physician.  
 : P330 Rinse mouth if ingested.  
 : P405 Store locked up.  
 : P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**OSHA HAZARDS** : Target Organ Effect (Glycol Ether DPM)  
**TARGET ORGANS** : Kidney, Liver, Nerves (Glycol Ether DPM).

# Safety Data Sheet

## BRITE WHITE 425

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

### SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

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

COMPONENT	PERCENT	CAS #	EC #	GHS CLASS
Sodium Hydroxide	1-5	1310-73-2	215-185-5	Metal Corr Cat 1, Skin Corr. Cat. 1A Eye Dam. Cat. 1, Aquatic Acute Cat 3
Potassium Hydroxide	1-5	1310-58-3	215-181-3	Metal Corr Cat 1, Skin Corr Cat 1A Eye Dam Cat 1, Acute Tox Cat 4
Aminotrimethylene Phosphonic Acid	0.1-1.0	6419-19-8	229-146-5	Metal Corr Cat 1, Eye Irrit Cat 2A
Dipropylene glycol methyl ether	1-5	34590-94-8	252-104-2	Eye Irrit: Cat 2B
Cocoamidopropyl Betaine	0.1-1.0	61789-40-0	263-058-8	Eye Irrit Cat 2B
Coconut Diethanolamide	0.1-1.0	68603-42-9	271-657-0	Skin Irrit Cat 2, Eye Irrit Cat 2B

Corr. = Corrosion, Dam. = Damage, Cat = Category, Tox = Toxicity, Irrit = Irritant.

### SECTION 4 – FIRST AID MEASURES

**EYE CONTACT** : Immediately flush eyes with water for at least 15 minutes. Hold eyelids open to ensure adequate flushing. Get immediate medical attention.

**SKIN CONTACT** : Remove contaminated clothing and shoes. Wash affected skin area with soap and water. Delayed skin damage is possible if product is not completely washed off. Get immediate medical attention.

**SWALLOWING (INGESTION)** : If ingested, dilute swallowed material by drinking water. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person. Get immediate medical attention.

**INHALATION** : Remove to fresh air. Get immediate medical attention.

**GENERAL MEASURES** : Never give anything by mouth to an unconscious person. 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** : Water spray, fog, carbon dioxide, foam, dry chemical

**SPECIAL HAZARDS (FIRE)** : Not flammable.

**EXPLOSION HAZARDS** : Product is not explosive.

**REACTIVITY (FIRE)** : Thermal decomposition generates: Corrosive vapors. If the product is involved in a fire, it can release explosive hydrogen gas. When heated to decomposition, emits toxic fumes. May be corrosive to metals.

**SPECIAL INSTRUCTIONS TO FIRE FIGHTERS**

**PRECAUTIONARY MEASURES** : Exercise caution when fighting any chemical fire.

**FIREFIGHTING INSTRUCTIONS** : Use water spray or fog for cooling exposed containers.

**PROTECTION DURING FIREFIGHTING** : Do not enter fire area without proper protective equipment, including respiratory protection.

**HAZARDOUS COMBUSTION PRODUCTS** : Potassium oxides. May liberate toxic gases. Sodium oxides. Phosphorous oxides. Nitrogen oxides. Carbon oxides (CO, CO<sub>2</sub>). Explosive Hydrogen gas.

**OTHER INFORMATION (FIRE)** : Do not allow run-off from fire fighting to enter drains or water courses.

# Safety Data Sheet

## BRITE WHITE 425

### SECTION 6 – ACCIDENTAL RELEASE MEASURES

- PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES** : Restrict access to keep out unauthorized or unprotected personnel. Wear protective equipment. Avoid inhalation and direct contact.
- ENVIRONMENTAL PRECAUTIONS** : Keep spilled material away from sewage/drainage systems and waterways. This product contains a U.S. EPA Reportable Quantity (RQ) substance. If amounts exceeding the Reportable Quantity are released, notification of the National Response Center (800) 424-8802 is required. See section 15 for more information.
- METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP** : 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. Neutralize spill and collect using an appropriate absorbent material such as clay or vermiculite. 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** : Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do not eat, drink, or smoke when using this product. Wash hands and forearms thoroughly after handling.
- CONDITIONS FOR SAFE STORAGE** : Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/store away from extremely high or low temperatures, direct sunlight, heat and incompatible materials (Strong acid, Strong oxidizers).



### SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

- TLV (THRESHOLD LIMIT VALUE)** : The TLV 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-Ceiling	ACGIH – STEL
Sodium Hydroxide	2 mg/m <sup>3</sup> (Ceiling)	2mg/m <sup>3</sup>	2mg/m <sup>3</sup> (Ceiling)
Potassium Hydroxide	2 mg/m <sup>3</sup> (Ceiling)	2mg/m <sup>3</sup>	2mg/m <sup>3</sup> (Ceiling)
Aminotrimethylene Phosphonic Acid	Not Established	Not Established	Not Established
Dipropylene glycol methyl ether	100 ppm, 600mg/m <sup>3</sup>	100 ppm	150 ppm
Cocoamidopropyl Betaine	Not Established	Not Established	Not Established
Coconut Diethanolamide	Not Established	Not Established	Not Established

- EYE PROTECTION** : Wear chemical splash goggles or face shield.
- SKIN PROTECTION** : Minimize contact with product. Wear chemical resistant coveralls, boots, gloves, apron and/or suitable long-sleeved clothing.
- RESPIRATORY PROTECTION** : In case of brief exposure use respiratory filter device. In case of intensive or longer exposure, use respiratory protective device that is independent of circulating air.
- VENTILATION** : Ensure adequate ventilation.

# Safety Data Sheet

## BRITE WHITE 425

<b>ADDITIONAL MEASURES</b>	: Emergency eyewash and safety shower facilities should be available in the immediate work area.
<b>REQUIRED WORK/HYGIENE</b>	: 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

<b>APPEARANCE</b>	: Clear light amber liquid with mild odor.
<b>ODOR</b>	: Mild odor
<b>ODOR THRESHOLD</b>	: Not available
<b>PH</b>	: > 13.5
<b>MELTING POINT/FREEZING POINT</b>	: Not available
<b>BOILING POINT</b>	: Not available
<b>FLASHPOINT</b>	: Not applicable
<b>EVAPORATION RATE</b>	: Not available
<b>FLAMMABILITY</b>	: Nonflammable, Noncombustible
<b>LOWER FLAMMABILITY LIMIT</b>	: Not applicable
<b>UPPER FLAMMABILITY LIMIT</b>	: Not applicable
<b>VAPOR PRESSURE</b>	: Not available
<b>VAPOR DENSITY (AIR=1)</b>	: Not available
<b>RELATIVE DENSITY</b>	: 1.08
<b>SOLUBILITY IN WATER</b>	: Soluble in water
<b>PARTITION COEFFICIENT n-OCTANOL/WATER</b>	: Not available
<b>AUTOIGNITION TEMPERATURE</b>	: Not available
<b>DECOMPOSITION TEMPERATURE</b>	: Not available

### SECTION 10 – STABILITY AND REACTIVITY

<b>REACTIVITY</b>	: Thermal decomposition generates: Corrosive vapors. If the product is involved in a fire, it can release explosion hydrogen gas. When heated to decomposition, emits toxic fumes. May be corrosive to metals.
<b>STABILITY</b>	: Stable under recommended storage conditions.
<b>HAZARDOUS CONDITIONS TO AVOID</b>	: Direct sunlight. Extremely high or low temperatures. Heat. Combustible materials. Incompatible materials.
<b>INCOMPATIBLE MATERIALS</b>	: Strong acids. Strong oxidizers. Soft metals. May be corrosive to metal.
<b>HAZARDOUS DECOMPOSITION PRODUCTS</b>	: Carbon oxides (CO, CO <sub>2</sub> ). Thermal decomposition generates: Corrosive vapors. Toxic gases. Hydrogen gas. Nitrogen oxides. Phosphorous oxides. Sodium oxides. Potassium oxides.

### SECTION 11 – TOXICOLOGICAL INFORMATION

<b>TOXICOLOGICAL INFORMATION</b>	: <b>Sodium Hydroxide</b>
<b>ACUTE TOXICITY</b>	: Draize test, rabbit, eye: 400 ug Mild. Draize test, rabbit, eye: 1% Severe. Draize test, rabbit, eye: 50 ug/24H Severe. Draize test, rabbit, eye: 1 mg/24H Severe. Draize test, rabbit, skin: 500 mg/24H Severe.
<b>EYE CONTACT</b>	: Causes severe eye damage.
<b>SKIN CONTACT</b>	: Causes skin burns. Onset of symptoms may be delayed following exposure.
<b>INHALATION</b>	: Corrosive to respiratory tract.

## Safety Data Sheet

### BRITE WHITE 425

<b>INGESTION</b>	: Corrosive to respiratory tract.
<b>CARCINOGENICITY</b>	: The components of this product are not classified as carcinogenic by OSHA, NTP IARC or CA Prop 65
<b>TOXICOLOGICAL INFORMATION</b>	: <b>Potassium Hydroxide</b>
<b>ACUTE TOXICITY</b>	: Draize test, rabbit, skin: 50 mg/24H Severe; Oral, rat: LD50 = 273 mg/kg; <BR. LD50 values: Potassium Hydroxide: Oral (rat): 214 mg/kg. LC50 dermal and inhalation: Not listed.
<b>EYE CONTACT</b>	: Causes severe eye damage.
<b>SKIN CONTACT</b>	: Causes skin burns. Onset of symptoms may be delayed following exposure.
<b>INHALATION</b>	: Corrosive to respiratory tract.
<b>INGESTION</b>	: May be harmful if swallowed. Ingestion may cause chemical burns, pain, vomiting, difficulty breathing and other gastrointestinal effects.
<b>CARCINOGENICITY</b>	: The components of this product are not classified as carcinogenic by OSHA, NTP IARC or CA Prop 65.
<b>MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE</b>	: Asthma and other respiratory conditions, skin disorders.
<b>TOXICOLOGICAL INFORMATION</b>	: <b>Aminotrimethylene Phosphonic acid</b>
<b>ACUTE TOXICITY</b>	: LD50 Oral (Rat): 2910mg/kg, LD50 Dermal (Rabbit): > 6310mg/kg.
<b>CHRONIC EFFECTS ON HUMANS</b>	: Rat 24months: > 500 mg/kg. Conclusion: Practically nontoxic.
<b>OTHER TOXIC EFFECTS ON HUMANS</b>	: Skin and Eyes (Rabbit): Moderate Irritant.
<b>TOXICOLOGICAL INFORMATION</b>	: <b>Dipropylene Glycol Methyl Ether</b>
<b>ACUTE TOXICITY</b>	: LD50 values: Oral LD50: 5152 mg/kg (rat). LC50 dermal and inhalation: Not listed. Eyes: Rabbit: Mild Irritation: 25 hours.
<b>CARCINOGENICITY</b>	: 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.
<b>TOXICOLOGICAL INFORMATION</b>	: <b>Cocoamidopropyl Betaine</b>
<b>ACUTE TOXICITY</b>	: LD50 Oral (rat): 5000-15,000 mg/kg.
<b>INHALATION LC50</b>	: No data available
<b>DERMAL LD50</b>	: No data available
<b>CARCINOGENICITY</b>	: This product is not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA.
<b>MUTAGENICITY</b>	: Not mutagenic in AMES test.
<b>TOXICOLOGICAL INFORMATION</b>	: <b>Coconut Diethanolamide</b>
<b>ACUTE TOXICITY</b>	: LD50 Oral (rat): > 5,000 mg/kg, LD50 Dermal (rabbit): > 2000 mg/kg.
<b>ACUTE EFFECTS</b>	: May be harmful in contact with skin.
<b>CHRONIC EFFECTS</b>	: Hazardous by OSHA criteria. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects. May cause damage to organs through prolonged or repeated exposure.
<b>SYMPTOMS AND TARGET ORGANS</b>	: Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain

#### SECTION 12 – ECOLOGICAL INFORMATION

<b>ECOLOGICAL INFORMATION</b>	: <b>Sodium Hydroxide</b>
<b>ECOTOXICITY</b>	: Immobilization EC50/48h/Daphnia-40.38 mg/l. LC50 /96h/Mosquito fish-125 mg/l.
<b>ENVIRONMENTAL</b>	: No information found.
<b>PHYSICAL</b>	: No information found.

## Safety Data Sheet

### BRITE WHITE 425

<b>OTHER</b>	: No relevant information available.
<b>PERSISTENCE AND DEGRADABILITY</b>	: No relevant information available.
<b>BIOACCUMULATIVE POTENTIAL</b>	: No relevant information available.
<b>NOTES</b>	: Water hazard class 1 (Self assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of this product to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or un-neutralized. Rinse off larger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms.
<b>ECOLOGICAL INFORMATION</b>	: <b>Potassium Hydroxide</b>
<b>ECOTOXICITY</b>	: Fish: Mosquito Fish: LC50 = 80.0 mg/L; 24 Hr.; Unspecified No data available.
<b>ENVIRONMENTAL</b>	: No information found.
<b>PHYSICAL</b>	: No information found.
<b>OTHER</b>	: No relevant information available.
<b>PERSISTENCE AND DEGRADABILITY</b>	: No relevant information available.
<b>BIOACCUMULATIVE POTENTIAL</b>	: No relevant information available.
<b>NOTES</b>	: Water hazard class 1 (Self assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of this product to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or un-neutralized. Rinse off larger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms.
<b>ECOLOGICAL INFORMATION</b>	: <b>Aminotrimethylene Phosphonic Acid</b>
<b>ECOTOXICITY</b>	: Acute LC50 fish (fresh water) 14 days: 160mg/L, LC50 Daphnia-Daphnia Magna (fresh water) 48hr: 297 mg/L, LC50 Daphnia (marine water) 48hr: 94mg/L
<b>CHRONIC TOXICITY</b>	: Fish (fresh water) 60 days @ 23mg/L: No observable effect. Daphnia (fresh water) 28 days @ >25mg/L: No observable effect
<b>BIODEGRADATION</b>	: Biodegradable.
<b>TOXICITY OF PRODUCTS OF BIODEGRADATION</b>	: The product and products of biodegradation are not toxic.
<b>ECOLOGICAL INFORMATION</b>	: <b>Dipropylene Glycol Methyl Ether</b>
<b>ECOTOXICITY (aquatic and terrestrial, where available):</b>	
<b>ACUTE FISH TOXICITY</b>	: LC50 / 96 hours Fathead Minnow - >10,000 mg/L
<b>TOXICITY TO DAPHNIA</b>	: EC50 / 48 hours Water flea - 1,919 mg/L
<b>PERSISTENCE AND DEGRADABILITY</b>	: No data available.
<b>BIOACCUMULATIVE POTENTIAL</b>	: No data available.
<b>ECOLOGICAL INFORMATION</b>	: <b>Cocoamidopropyl Betaine</b>
<b>ECOTOXICITY</b>	: Not available
<b>PERSISTENCE AND DEGRADABILITY</b>	: No data available
<b>BIOACCUMULATIVE POTENTIAL</b>	: No data available
<b>ECOLOGICAL INFORMATION</b>	: <b>Coconut Diethanolamide</b>
<b>ACUTE TOXICITY</b>	: LC50 Algae: < 10 mg/l 72 hours, LC50 Daphnia: < 10 mg/l 48 hours, LC50 Fish: < 10 mg/l 96 hours
<b>PERSISTENCE AND</b>	: Readily biodegradable

# Safety Data Sheet

## BRITE WHITE 425

### DEGRADABILITY

BIOACCUMULATIVE POTENTIAL : No data available.

### SECTION 13 – DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL RECOMMENDATIONS** : 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.

**ECOLOGY-WASTE MATERIALS** : This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

### SECTION 14 – TRANSPORTATION INFORMATION

**DOT/IMDG/ IATA PROPER SHIPPING NAME** : UN3266, CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE, POTASSIUM HYDROXIDE) 8 PGII  
ERG-154

**HAZARD CLASS AND LABEL** : 8 (Corrosive)

**UN NUMBER** : UN3266

**PACKAGING GROUP** : PGII

**EPA REPORTABLE QUANTITY (RQ)** : 1000 LBS. (454 KG) as Sodium or Potassium Hydroxide 100%.

**MARINE POLLUTANT** : No

**EMERGENCY RESPONSE GUIDE** : ERG-154



### SECTION 15 – REGULATORY INFORMATION

#### U.S. FEDERAL REGULATORY INFORMATION:

**LISTED CARCINOGEN** : Not listed

**TSC STATUS** : The ingredients of this product are listed on TSCA (Toxic Substances Control Act) inventory (40CFR 710.)

**SARA SECTION 302** : None

**SARA SECTION 311/312** : Immediate (acute) health hazard.

**HAZARD CLASS**

**SARA SECTION 313** : Not Listed

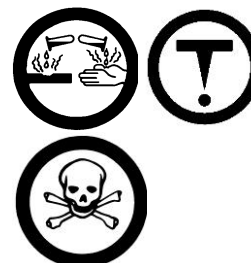
**NFPA HEALTH** : 3

**NFPA FLAMMABILITY** : 0

**NFPA REACTIVITY** : 1

#### CANADIAN REGULATORY INFORMATION

**WHMIS CATEGORY** : Class E: Corrosive: Sodium Hydroxide, Potassium Hydroxide  
Class D2B: Materials causing other toxic effects (TOXIC): Sodium Carbonate  
D1B: Poisonous and infectious material: Immediate and serious effects (TOXIC). Potassium Hydroxide



**DOMESTIC SUBSTANCES LIST (DSL)** : Listed

**INGREDIENT DISCLOSURE LIST** : Listed, this product has been classified in

# Safety Data Sheet

## BRITE WHITE 425

accordance with the hazard criteria of the  
Controlled Products Regulations (CPR) and the sds  
contains all the information required by the CPR.

### SECTION 16 – OTHER INFORMATION

<b>DISCLAIMER</b>	: 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. Wesmar Co. 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.
<b>CERCLA</b>	: Comprehensive Environmental Response, Compensation, and Liability Act.
<b>EINECS</b>	: European Inventory of Existing Commercial Chemical Substances
<b>IMDG</b>	: International Maritime Code for Dangerous Goods
<b>IARC</b>	: International Agency for Research on Cancer
<b>IATA</b>	: International Air Transportation Association
<b>ACGIH</b>	: American Conference of Governmental Industrial Hygienists
<b>NFPA</b>	: National Fire Protection Association (USA)
<b>NTP</b>	: National Toxicology Program
<b>SARA</b>	: Superfund Amendments and Reauthorization Act
<b>TSCA</b>	: Toxic Substances Control Act
<b>HMIS</b>	: Hazardous Materials Identification System (USA)
<b>WHMIS</b>	: Workplace Hazardous Materials Information System
<b>LC50</b>	: Lethal concentration, 50 percent
<b>LD50</b>	: Lethal dose, 50 percent
<b>STOT</b>	: Systemic Target Organ Toxicity
<b>DATE PREPARED</b>	: MAR 1, 2018
<b>DATE REVISED</b>	: DEC 12, 2022