

 <p>CHEMTRADE LOGISTICS</p>	<p>VIRWITE® POWDER (SERIES 400) Revision: 2 Revised Date: February 5, 2009 Replaces MSDS dated: September 12, 2007</p>	<p>FOR CHEMICAL EMERGENCY 24 Hours IN CANADA Call CANUTEC (613) 996-6666 IN the USA Call CHEMTREC (800) 424-9300 CHEMTREC – OUTSIDE USA (703) 527-3887 Chemtrade Emergency Contact: (866) 416-4404</p>
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SECTION 01 – PRODUCT & COMPANY IDENTIFICATION

COMPANY INFORMATION:

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HAZARD RATINGS:

WHMIS:	CONTROLLED	NFPA	RATING	HMIS	RATING
CLASS	B6	HEALTH	2	HEALTH	2
	D-2B	FLAMMABILITY	1	FLAMMABILITY	1
	F	REACTIVITY	2	PHYSICAL HAZARD	2
		SPECIFIC HAZARD	W	PERSONAL PROTECTION	J

PRODUCT INFORMATION:

PRODUCT NAME: VIRWITE® POWDER (SERIES 400)
CAS NUMBER: Mixture (See SECTION 2)
FORMULA: Na₂S₂O₄
PRIMARY PRODUCT USE: Reducing agent
SYNONYMS: Sodium Dithionite; Hydro; Sodium Hydrosulfite Powder; Hydro Powder; Sodium Hydrosulfite Powders & Blends; Sodium Sulfoxylate; Dithionous Acid; and Disodium Salt
CHEMICAL FAMILY: Sulfite
TRADE NAMES: VIRWITE®
 This MSDS applies to Chemtrade’s VIRWITE® Powder (SERIES 400) Sodium Hydrosulfite products using a one or two letter prefix (A through Z) followed by a 3 digit numeric code (400 – 499).
 For Example - VIRWITE® K-420; VIRWITE® V-420; or VIRWITE® AZ-499

SECTION 02 – COMPOSITION/INFORMATION ON INGREDIENTS

No.	COMPONENT	CAS NO.	WT. %	EXPOSURE LIMITS
♦ 1.	Sodium Hydrosulfite	7775-14-6	60 - 95	5 mg/m ³ TWA (internal)
♦ 2.	Sodium salt	XXX-XX-X	proprietary	5 mg/m ³ TWA (ACGIH)
♦ 3.	Carbonate salt*	XXX-XX-X	proprietary	15 mg/m ³ TWA OSHA (as total dust) 5 mg/m ³ TWA OSHA (as respirable dust) 10 mg/m ³ TWA ACGIH (as inhalable dust) 3 mg/m ³ TWA ACGIH (as respirable dust)

* - No established exposure limits. Limits shown are for particulates not otherwise specified. Material is water soluble.

♦ - An exemption was claimed under the Canadian *Hazardous Materials Information Review Act*. The registry number assigned to the claim is **7120**. The exemption was granted **January 20, 2009** for those ingredients indicated.

SECTION 03 - HAZARDS IDENTIFICATION

(Refer to SECTION 11 for additional information)

EXPECTED ROUTE OF ENTRY	
SKIN CONTACT:	X
SKIN ABSORPTION:	
EYE CONTACT:	X
INHALATION:	X
INGESTION:	X

EFFECTS OF EXPOSURE:**ACUTE**

May cause moderate to severe eye irritation.

May cause slight to moderate skin irritation.

Inhalation of dusts can irritate or damage the nose, throat, and lungs. Symptoms may include coughing, wheezing, breathing difficulty, and pulmonary edema (fluid in the lungs).

May cause severe respiratory distress in asthmatics. Asthmatics or persons with other respiratory disorders should be excluded from exposure.

Ingestion may cause serious damage or burns to mouth, throat, esophagus, stomach, and other tissues. Nausea, vomiting, abdominal cramps and diarrhea may occur.

Sulfur Dioxide generated during decomposition may cause pulmonary irritation, bronchospasms or respiratory failure due to pulmonary edema (fluid in the lungs).

CHRONIC

May cause sensitization. Persons allergic to sulfites particularly susceptible.

Repeated, prolonged contact may result in dry chapped skin. A skin allergy resulting in itching and skin rash may develop.

Safe handling on a long-term basis should emphasize the avoidance of all effects from repetitive acute exposures.

KNOWN EFFECTS ON OTHER ILLNESSES: Persons with asthma.

LISTED CARCINOGEN:

NONE:	X
OSHA:	
NTP:	
IARC:	
OTHER:	

SECTION 04 - FIRST AID MEASURES

FIRST AID FOR EYES:

Flush IMMEDIATELY under running water for a minimum of 20 minutes. Hold eyelids open during flushing. Take care not to rinse contaminated material into unaffected eye. If redness or irritation persists, repeat flushing. Seek medical attention.

FIRST AID FOR SKIN:

Wash skin thoroughly with soap and water for 20 minutes. If skin irritation or blistering occurs, seek medical attention.

FIRST AID FOR INHALATION:

Remove subject to fresh air. Seek medical aid if lung irritation persists or if breathing becomes difficult.

FIRST AID FOR INGESTION:

If ingested, immediately seek medical attention and bring copy of the MSDS. **DO NOT INDUCE VOMITING.** If vomiting occurs, have victim lean forward with head down. **NEVER** give anything by mouth if victim is losing consciousness, unconscious, or convulsing.

NOTE TO PHYSICIAN:

Treat in accordance with the nature of acute exposure and consistent with Emergency and First-aid procedures. This material and its decomposition products are respiratory and mucous membrane irritants. Persons with a demonstrated acute response (wheezing) or chronic response (asthma) to such irritants must be excluded from exposure.

SECTION 05 - FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:

WATER:	X
ALCOHOL FOAM:	
CARBON DIOXIDE (CO ₂):	
DRY CHEMICAL:	
WATER/FOG SPRAY:	
NO EXTINGUISHING MEDIA:	

FLASH POINT (°F): Not applicable – product is solid material

FLAMMABLE LIMITS:

Lower Explosive Limit (LEL): Not determined

Upper Explosive Limit (UEL): Not determined

AUTOIGNITION TEMPERATURE (°F): 482 (250 °C) - for sodium hydrosulfite powder

DECOMPOSITION TEMPERATURE (°F): 158 - 304 (70 - 151 °C) - for sodium hydrosulfite powder

HAZARDOUS COMBUSTION PRODUCTS:

Sulfur Dioxide is major decomposition product. Approximately 0.15 lbs of Sulfur Dioxide is formed for each pound of Sodium Hydrosulfite that decomposes.

Thermal decomposition products may also include hydrogen sulfide, sodium oxide, oxides of carbon and potentially Sulfur.

SPECIAL FIRE FIGHTING PROCEDURES:

Use NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing. Exercise CAUTION when fighting any chemical fire.

If decomposition is suspected inside sealed containers as indicated by container being hot to the touch or swelling of the container, vent the container by the safest means possible. Move vented container to a safe open area.

Flood material with large quantities of water and contain all runoff. Sand or dry chemical **WILL NOT** stop decomposition reactions. If necessary, remove the material from the container.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Contact with water or humidity may cause chemical reaction. Heat generated is sufficient to ignite combustible materials.

Material may reignite after fire is extinguished. Apply sufficient water to **COMPLETELY** dissolve the material.

Closed containers may rupture violently when heated.

If Fire Code requires sprinklered storage, protect containers by covering with fire resistant plastic or other material. Promptly remove and inspect any containers that become wet or have contact with water.

Under extreme fire conditions in confined areas, large quantities of decomposing Sodium Hydrosulfite may produce elemental Sulfur. Sulfur dust at high concentrations may create potential for explosion. If presence of Sulfur dust is suspected, the recommended response is to gently apply a fog stream of water to avoid creation of a dust cloud.

SECTION 06 - ACCIDENTAL RELEASE MEASURES**STEPS TO BE TAKEN IN CASE OF SPILL OR LEAK:**

Isolate spill area to minimize contaminated area.

Wear proper personal protective equipment such as chemical resistant gloves, safety glasses, protective clothing and respiratory protection.

Recover dry material with scoops or shovels and place in suitable containers.

Keep materials out of storm drains, ditches, and surface waters. **DO NOT** allow material into Municipal waste water treatment systems (unless authorized by regulating authority).

If material shows signs of decomposition as indicated by being warm to the touch or having strong odor, dissolve material in sufficient amount of water as to completely dissolve any solid material.

Discarded materials may be classified as Hazardous waste due to reactivity with water or moisture.

Decontaminate tools and equipment by scrubbing with soap and water. Remove any cleaning wastes and contaminated soil with recovered material.

SECTION 07 - HANDLING AND STORAGE**HANDLING PROCEDURES:**

Keep containers tightly closed when not in use.

Avoid contact with eyes and skin when handling product.

Avoid inhalation of dust.

Avoid sources of heat or flame. Closed containers may rupture violently when heated.

Remove damaged or punctured containers from storage; secure any leaks using duct tape or other suitable means. Use contents IMMEDIATELY. Observe container for signs of decomposition.

If container feels warm to the touch or begins to smoke, remove container to open area. Flood the container with water and contain any runoff. If necessary remove the material from the container prior to flooding.

STORAGE INFORMATION:

Keep material dry and store below temperature of 122 °F (50 °C).

Avoid contact with air.

Store material away from oxidizers, acids and flammable materials.

If Fire Code requires sprinklered storage, protect containers by covering with fire resistant plastic or other material. Promptly remove and inspect any containers that become wet or have contact with water.

Store in area with adequate ventilation.

SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION**RESPIRATORY PROTECTION:**

Use NIOSH approved respirator with acid gas cartridge and dust/mist pre-filter for concentrations up to 10 times the recommended exposure limit.

For high concentrations, as well as Fire-fighting and other emergencies, use NIOSH approved positive pressure self-contained breathing apparatus.

SKIN PROTECTION:**PROTECTIVE GLOVES:**

Butyl rubber, PVC (polyvinyl chloride) or Neoprene.

EYE PROTECTION:

Safety glasses with side shields or chemical splash goggles.

OTHER PROTECTIVE EQUIPMENT:

Wear a protective apron or other suitable clothing to prevent skin contact.

ENGINEERING CONTROLS:

Local ventilation recommended – mechanical ventilation may be used.

EXPOSURE LIMITS:

Refer to **SECTION 2** for Recommended Exposure Limits.

IDLH (IMMEDIATELY DANGEROUS TO LIFE OR HEALTH CONCENTRATION):

Not determined for Sodium Hydrosulfite.

IDLH for Sulfur dioxide formed during decomposition is 100 ppm.

SECTION 09 – PHYSICAL AND CHEMICAL PROPERTIES

CHEMICAL FORMULA:	Na ₂ S ₂ O ₄ (for sodium hydrosulfite)
MOLECULAR WEIGHT:	174.1 (for sodium hydrosulfite)
PHYSICAL STATE:	Solid
APPEARANCE AND ODOR:	White free flowing powder. Slight sulfur like odor.
ODOR THRESHOLD:	No data available
pH:	6 – 10 [1% by weight solution at 68 °F (20 °C)]
SOLUBILITY IN WATER (% IN WATER):	18 % @ 70 °F (21 °C)
BULK DENSITY (LB/FT³):	55 – 65
VAPOR DENSITY (AIR=1):	Not determined
BOILING POINT (°F):	Not determined
MELTING POINT (°F):	572 (300 °C) Decomposes before reaching melting point
VAPOR PRESSURE (MM HG):	Not determined
EVAPORATION RATE:	Not applicable
PERCENT VOLATILE BY VOLUME:	Not applicable
OCTANOL/WATER PARTITION COEFFICIENT:	Log P _{ow} < -2.75 to -4.7 (estimated) – for sodium hydrosulfite

SECTION 10 - STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID:

Avoid sources of heat above 122 °F (50 °C).

Prevent contact with water or moisture.

In contact with air, mixing sodium hydrosulfite solutions with polysulfide or sulfide containing products may liberate potentially lethal Hydrogen Sulfide gas.

INCOMPATIBILITY:

Avoid strong acids.

Avoid contact with oxidizing agents such as peroxides, potassium chlorate and potassium permanganate.

An explosion occurred after mixing sodium hydrosulfite powder, aluminum powder, potassium carbonate and benzaldehyde.

Refer to OSHA Hazard Information Bulletin, Water-Reactive Chemicals, Hazardous Materials Not Covered Under 29 CFR 1910.119, dated July 3, 1996 for additional information.

Note: Product is not expected to cause fire or explosion under routine use.

SECTION 11 - TOXICOLOGICAL INFORMATION

Slightly toxic orally. May cause gastrointestinal disturbances.

Practically non-toxic by skin absorption.

This product is **NOT** known or reported to be Carcinogenic by any reference source including IARC, NTP, OSHA, or EPA.

This product is **NOT** known or reported to be mutagenic. Literature indicates Ames salmonella typhimurium and E. Coli test results were negative.

REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES (RTECS) NUMBER:

JP2100000 (for sodium hydrosulfite).

TOXICITY

TOXICITY TYPE	DESCRIPTION	RESULTS	TESTED ON
LD₅₀ (ORAL):	Lethal Dose (50%)	2500 mg/kg of body weight	Rat
LD₅₀ (ORAL):	Lethal Dose (50%)	1500 mg/kg of body weight	Mouse
SKIN EFFECTS:	Skin Irritation	Slight to moderate	Rabbit
EYE EFFECTS:	Eye Irritation	Mild to moderate	Rabbit

SECTION 12 - ECOLOGICAL INFORMATION

ENVIRONMENTAL TOXICITY:

SPECIES	TEST TYPE	ENDPOINT	DURATION (hours)	DESCRIPTION	RESULT (mg/l)
ACUTE TOXICITY					
<i>LEUCISCUS IDUS</i> (fresh water fish)	Field observation	Not Specified	48	NOEC	10 – 100
	Not specified	Lethal Concentration (50%)		LC ₅₀	10 – 100
	Static	Not Specified Lethal Concentration (50%)	96	LC ₀ LC ₅₀	46 46-68
<i>DAPHNIA MAGNA STRAUS</i> (other aquatic arthropod)	Directive 4/449/EEC	Not Specified	24	EC ₀ EC ₅₀ EC ₁₀₀	62.5 120 250
		Not Specified	48	EC ₀ EC ₅₀ EC ₁₀₀	62.5 98 250
<i>SCENEDESMUS SUBSPICATUS</i> (algae)	Other -algae test in contact	Not Specified	72	EC ₂₀ EC ₅₀ EC ₉₀	86 120 270
		Not Specified	96	EC ₂₀ EC ₅₀ EC ₉₀	57 87 190
		Not Specified	17	EC ₁₀ EC ₅₀ EC ₉₀	62 107 220
<i>PSEUDOMONAS PUTIDA</i> (bacteria)	Other	Not Specified	17	EC ₁₀ EC ₅₀ EC ₉₀	62 107 220
OTHER BACTERIA (bacteria)	Other – DEV-L3	Not specified	Not Specified	EC ₁₀	> 20
OTHER BACTERIA (<i>Spirulina labyrinthiformis</i>)	Static	Photosynthesis effect	2	EC	0.32
CHRONIC TOXICITY					
<i>DAPHNIA MAGNA</i> (crustacea)	Other	Mortality	21 days	LC ₀	> 10
		Reproduction Rate	21 days	NOEC	> 10

NOTE: Results reported above are based on research of studies conducted on sodium hydrosulfite. Actual products have not been tested.

CHEMICAL OXYGEN DEMAND (COD):	> 210,000 mg/kg substance (for sodium hydrosulfite powder)
BIOCHEMICAL OXYGEN DEMAND (BOD5):	Not determined
BIOLOGICAL ELIMINATION:	Not determined

SECTION 13 - DISPOSAL CONSIDERATIONS**WASTE DISPOSAL INFORMATION:**

If this product becomes a waste, it may become a characteristic Hazardous waste due to ignitibility (D001) or reactivity (D003). Such waste is subject to the Land Disposal restrictions outlined in 40 CFR 268.

Dispose of material in accordance with all State, Local, Provincial, and Federal regulations at approved waste management site.

SECTION 14 - TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION:	Regulated
SHIPPING NAME:	Sodium Hydrosulfite (or Sodium Dithionite)
UN/NA NUMBER:	UN 1384
HAZARD CLASS OR DIVISION:	4.2
PACKING GROUP:	II
LABEL CODES:	4.2 (Spontaneously Combustible)
DOT EMERGENCY RESPONSE GUIDE NUMBER:	135
CANADIAN TRANSPORT REGULATION:	Regulated
SHIPPING NAME:	Sodium Hydrosulfite (or Sodium Dithionite)
UN/NA NUMBER:	UN 1384
HAZARD CLASS OR DIVISION:	4.2
PACKING GROUP:	II
LABEL CODES:	4.2 (Spontaneously Combustible)
DOT EMERGENCY RESPONSE GUIDE NUMBER:	135
INTERNATIONAL AIR TRANSPORTATION (IATA) REGULATIONS:	Regulated
SHIPPING NAME:	Sodium Dithionite
UN/NA NUMBER:	UN 1384
HAZARD CLASS OR DIVISION:	4.2
PACKING GROUP:	II
LABEL CODES:	4.2 (Spontaneously Combustible)
INTERNATIONAL MARITIME DANGEROUS GOODS (IMDG) REGULATION:	Regulated
SHIPPING NAME:	Sodium Dithionite
UN/NA NUMBER:	UN 1384
HAZARD CLASS OR DIVISION:	4.2
PACKING GROUP:	II
LABEL CODES:	4.2 (Spontaneously Combustible)

SECTION 15 - REGULATORY INFORMATION

OSHA:

Meets criteria for hazardous material as defined by the Occupational Safety and Health Administration. (OSHA) in 29 CFR 1910.1200.

TSCA:

We certify that all components of this product are registered under the regulations of the Toxic Substance Control Act (TSCA).

SARA (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): Sodium hydrosulfite

SARA (SECTION 311/312):			SARA (SECTION 302):		RQ
REACTIVE HAZARD:	Y		EXTREMELY HAZARDOUS SUBSTANCE:	N	
PRESSURE HAZARD:	N		CERCLA HAZARDOUS SUBSTANCE:	Y	
FIRE HAZARD:	Y				
IMMEDIATE/ACUTE:	Y		SARA (SECTION 304):		
DELAYED/CHRONIC:	N		RELEASE NOTIFICATION (for sulfur dioxide during decomposition)	Y	500 lbs (SO ₂)

SARA (SECTION 313 - TOXIC CHEMICAL): This product does **NOT** contain any toxic chemical listed under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) of 1986.

CLEAN WATER ACT – PRIORITY POLLUTANTS:

This product contains no known Priority Pollutants at concentrations greater than 0.1%.

CLEAN AIR ACT - VOLATILE ORGANIC COMPOUNDS:

VOLATILE ORGANIC COMPOUNDS (VOC) (EPA METHOD 24/24a): None

LOSS ON DRYING (%): None expected

CERCLA - COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT: (FOR COMPONENTS LISTED IN SECTION 2):

None Components are **NOT** listed.

RCRA (RESOURCE CONSERVATION & RECOVERY ACT) HAZARDOUS WASTE: Yes, if product becomes a waste due to ignitibility and reactivity.

RCRA #: D001, D003

FDA: This product is **NOT** registered with the Food and Drug Administration (FDA).

GENERALLY REGARDED AS SAFE (GRAS):

Sodium Hydrosulfite is Generally Regarded As Safe for use in Paper and Paperboard products used in Food Packaging (21 CFR 176.170 & 21 CFR 182.90).

Sodium Hydrosulfite is Generally Regarded As Safe for use with Textiles and Textile Fibers for producing, manufacturing, packing, processing, preparing, treating, packaging, transporting, or holding food (21 CFR 177.2800).

USDA:

This product is **NOT** registered with the U. S. Department of Agriculture (USDA).

CANADIAN REGULATORY INFORMATION:

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA): This product conforms to the CEPA regulations.

LISTED ON DOMESTIC SUBSTANCE LIST (DSL):

ALL components are listed.

LISTED AS PRIORITY SUBSTANCE:

Components may contain respirable particulate matter \leq 10 microns.

LISTED AS TOXIC SUBSTANCE:

Components are **NOT** listed.

EXPORT CONTROL LIST:

Components are **NOT** listed.

NATIONAL POLLUTANT RELEASE INVENTORY (NPRI):

Product **NOT** subject to NPRI reporting.

LISTED ON NON-DOMESTIC SUBSTANCES LIST (NDSL):

Components are **NOT** listed.

This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the MSDS contains all the information required by the *Controlled Products Regulations*.

WORKPLACE HAZARDOUS INFORMATION SYSTEM (WHMIS): CONTROLLED**CLASS: DIVISION:**

B	6	Reactive flammable material
D	2B	Toxic Material causing other effects
F		Dangerously reactive material

EUROPEAN/INTERNATIONAL REGULATIONS:**EUROPEAN INVENTORY OF EXISTING**

COMMERCIAL SUBSTANCES (EINECS) NUMBER: 231-890-0 (for sodium hydrosulfite)

EUROPEAN PRIORITY LISTS:

Chemical components are not listed in a priority list (as foreseen under Council Regulation (EEC) No 793/93 on the evaluation and control of the risks of existing substances)

HAZARD SYMBOLS:

Xn (HARMFUL)

RISK PHRASES:

R7 – May cause fire.
R22 – Harmful if swallowed.
R31 – Contact with acids liberates toxic gas.

SAFETY PHRASES:

- S7** – Keep container tightly closed.
S8 – Keep container dry.
S26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28 – After contact with skin, rinse immediately with plenty of water and seek medical advice if redness or irritation persists.
S43 – In case of fire, use water and contain all runoff.

SECTION 16 - OTHER INFORMATION**OTHER PRECAUTIONS:**

None known

STATE REGULATORY INFORMATION:**MASSACHUSETTS SUBSTANCES LIST:** Listed**NEW JERSEY:**

Right to Know (RTK) Substance Number – 1697 (Sodium Dithionite)

NEW YORK LIST OF HAZARDOUS SUBSTANCESListed
(Air RQ – 5000 lbs.; Land/Water RQ – 100 lbs.)**CALIFORNIA PROPOSITION 65:**Product is **NOT** Listed.**LABEL INFORMATION:****LABEL HAZARDS:****WARNING!** FLAMMABLE SOLID. MAY SPONTANEOUSLY DECOMPOSE IN PRESENCE OF HEAT OR MOISTURE.**WARNING!** DURING DECOMPOSITION, TOXIC GASES ARE PRODUCED.**CAUTION!** MAY CAUSE EYE AND SKIN IRRITATION.**CAUTION!** INHALTION OF DUST MAY IRRITATE UPPER RESPIRATORY TRACT (NOSE, MOUTH AND THROAT).**LABEL PRECAUTIONS:** KEEP PRODUCT DRY! AVOID CONTACT WITH MOISTURE.

STORE AT TEMPERATURE BELOW 122 °F (50 °C).

AVOID CONTACT WITH EYES, SKIN AND CLOTHING. WASH THOROUGHLY AFTER HANDLING. WEAR PROPER PROTECTIVE EQUIPMENT.

AVOID BREATHING DUST. USE WITH ADEQUATE VENTILATION.

KEEP CONTAINERS CLOSED WHEN NOT IN USE.

ACRONYMS/REFERENCES:

ACGIH – American Conference of Governmental Industrial Hygienists
CAS – Chemical Abstract Service
CERCLA – Comprehensive Environmental Response, Compensation and Liability Act
DOT – Department of Transportation (U.S.)
EC – Effective Concentration (where desired endpoint observed)
EEC – European Economic Community
EPA – Environmental Protection Agency
g/m³ – grams per cubic meter
HMIS - Hazardous Materials Identification System
IARC - International Agency for Research on Cancer
LC – Lethal Concentration
LD – Lethal Dose
mg/m³ – milligrams per cubic meter
mg/kg – milligrams per kilogram
mg/l – milligrams per liter
NIOSH – National Institute for Occupational Safety and Health
MSDS – Material Safety Data Sheet
NOEC – No Observed Effect Concentration
NTP – National Toxicology Program
OSHA – Occupational Safety and Health Administration
RCRA – Resource Conservation and Recovery Act
RQ – Reportable Quantity
SARA – Superfund Amendments and Reauthorization Act
TWA – Time weighted average (8-hour)
UN/NA – United Nations/North America
WHMIS – Workplace Hazardous Materials Information System (Canada)
WT. % - Weight Percent

IN ACCORDANCE WITH GOOD PRACTICES OF PERSONAL CLEANLINESS AND HYGIENE, HANDLE WITH DUE CARE AND AVOID UNNECESSARY CONTACT WITH THIS PRODUCT. THIS INFORMATION IS BEING SUPPLIED TO YOU UNDER U.S. OSHA'S "RIGHT TO KNOW" (29 CFR 1910.1200) AND CANADA'S WHMIS REGULATIONS. THE INFORMATION IS OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. THE INFORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE TO US AND IS BELIEVED TO BE TRUE AND ACCURATE. NO WARRANTY, EXPRESSED OR IMPLIED, REGARDING THE ACCURACY OF THIS DATA, THE HAZARDS CONNECTED WITH THE USE OF THE MATERIAL, OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF, IS MADE. CHEMTRADE LOGISTICS ASSUMES NO RESPONSIBILITY. CHEMTRADE IS A MEMBER OF THE CIAC AND ADHERES TO THE CODES OF RESPONSIBLE CARE.