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FOR CHEMICAL EMERGENCY 24 Hours

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HAZARD RATINGS:

WHMIS:	CONTROLLED	HMIS	RATING
CLASS	D	HEALTH	1
DIVISION	2B	FLAMMABILITY	0
		REACTIVITY	0
		PERSONAL PROTECTION	D

SECTION 01 - PRODUCT IDENTIFICATION

PRODUCT NAME: SODIUM HYDROSULFITE SOLUTION

CAS NUMBER: MIXTURE (See SECTION 2)

FORMULA: SODIUM HYDROSULFITE IN AQUEOUS SOLUTION

PRIMARY PRODUCT USE: REDUCING AGENT

SYNONYMS: SODIUM DITHIONITE; LIQUID HYDRO; SODIUM SULFOXYLATE; DITHIONOUS ACID,

DISODIUM SALT

CHEMICAL FAMILY: SULFITE

TRADE NAMES: V-BRITE[®]; VIRWITE[®]; VIRTEX[®]; & K-BRITE[®]

THIS MSDS APPLIES TO CHEMTRADE V-BRITE®; VIRWITE®; VIRTEX® & K-BRITE® PRODUCTS USING A 1 to 4- DIGIT ALPHANUMERIC CODE (A through ZZZZ) OR (1 – 9999) IN ANY COMBINATION (e.g. V-BRITE B, VIRWITE CD, VIRTEX 123, or K-BRITE

AZ22).

SECTION 02 - COMPOSITION INFORMATION ON HAZARDOUS INGREDIENTS

No.	COMPONENT	CAS NO.	WT. %	EXPOSURE LIMITS
1.	SODIUM HYDROSULFITE	7775-14-6	5 - 30	5 mg/m ³ TWA (internal)
2.	SODIUM SALT	XXX-XX-X	proprietary	2 mg/m ³ OSHA 2 mg/m ³ CEILING ACGIH
3.	SODIUM SALT	XXX-XX-X	proprietary	None established
4.	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)
5.	SODIUM SALT, MINERAL ACID DERIVATIVE	XXX-XX-X	proprietary	Same as component 4.
6.	POLYPROTIC ACID	XXX-XX-X	proprietary	None established

An exemption has been claimed under the Canadian *Hazardous Materials Information Review Act*. A claim for exemption was filed on May 2, 2005 and the registry number assigned to the claim is 6183.

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 MODERATE TO SEVERE SKIN IRRITATION. INFLAMMATION, REDNESS AND BLISTERING MAY OCCUR.

NOTE: SOME COMPONENTS ARE CONSIDERED CORROSIVE TO EYES AND SKIN. ACTUAL PRODUCT IS DILUTE SOLUTION OF THESE COMPONENTS. REFER TO SECTION 11 FOR ADDITIONAL INFORMATION ON EYE AND SKIN EFFECTS.

INHALATION OF VAPORS OR MISTS CAN IRRITATE OR DAMAGE THE RESPIRATORY TRACT, MUCOUS MEMBRANES AND LUNG TISSUE. MAY CAUSE RESPIRATORY IRRITATION AND BRONCHOSPASMS. SYMPTOMS MAY INCLUDE COUGHING, WHEEZING, BREATHING DIFFICULTY AND PULMONARY EDEMA.

HIGH LEVELS OF INHALATION EXPOSURE MAY CAUSE DAMAGE TO THE NASAL SEPTUM. EFFECTS CAN RANGE FROM MILD IRRITATION OF MUCOUS MEMBRANES TO SEVERE PNEUMONITIS TO DESTRUCTION OF LUNG TISSUES.

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.

INGESTION OF LARGE QUANTITIES MAY CAUSE SKIN DISCOLORATION, DECREASED BLOOD PRESSURE AND DECREASED HEART RATE POTENTIALLY RESULTING IN COMA OR DEATH.

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.

REPEATED INHALATION MAY CAUSE NOSEBLEEDS, NASAL CONGESTION, TEETH EROSION, PERFORATION OF THE NASAL SEPTUM, LUNG DAMAGE, BRONCHITIS AND CHEST PAINS.

SAFE HANDLING ON A LONG-TERM BASIS SHOULD EMPHASIZE THE AVOIDANCE OF ALL EFFECTS FROM REPETITIVE ACUTE EXPOSURES.

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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 FIFTEEN MINUTES. IF REDNESS OR IRRITATION OCCURS, SEEK MEDICAL ATTENTION.

FIRST AID FOR SKIN:

WASH THOROUGHLY WITH SOAP AND WATER FOR 15 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.

NOTE TO PHYSICIAN:

TREAT IN ACCORDANCE WITH 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 AVAILABLE (aqueous product)

FLAMMABLE LIMITS:

Lower Explosive Limit (LEL): NOT DETERMINED Upper Explosive Limit (UEL): NOT DETERMINED

AUTOIGNITION TEMPERATURE (°F): NOT APPLICABLE - product is aqueous solution **DECOMPOSITION TEMPERATURE** (°F): NOT APPLICABLE - product is aqueous solution

HAZARDOUS COMBUSTION PRODUCTS:

THERMAL DECOMPOSITION PRODUCTS MAY INCLUDE SULFUR DIOXIDE, HYDROGEN SULFIDE, SODIUM OXIDE AND OXIDES OF CARBON.

SPECIAL FIRE FIGHTING PROCEDURES:

USE NIOSH APPROVED POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING.

EXERCISE CAUTION WHEN FIGHTING ANY CHEMICAL FIRE.

USE WATER AND CONTAIN ALL RUNOFF.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

NONE KNOWN. AQUEOUS BASED PRODUCT.

SECTION 06 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE OF SPILL OR LEAK:

CONTAIN SPILL TO MINIMIZE CONTAMINATED AREA.

WEAR PROPER PERSONAL PROTECTIVE EQUIPMENT.

ALL SPILLS SHOULD BE COLLECTED AS LIQUID OR ON A SUITABLE ABSORBANT.

LIQUID MATERIAL MAY BE RECOVERED BY PUMPING INTO SUITABLE CONTAINERS USING COMPATIBLE EQUIPMENT.

CLEAN UP DRY ABSORBED MATERIAL WITH SCOOPS OR SHOVELS AND PLACE IN SUITABLE CONTAINERS.

DECONTAMINATE TOOLS AND EQUIPMENT BY SCRUBBING WITH SOAP AND WATER. REMOVE ANY CLEANING WASTES AND CONTAMINATED SOIL WITH THE ABSORBED MATERIAL.

SECTION 07 - HANDLING AND STORAGE

HANDLING PROCEDURES:

KEEP CONTAINERS CLOSED WHEN NOT IN USE.

AVOID CONTACT WITH EYES AND SKIN WHEN HANDLING PRODUCT.

AVOID INHALATION OF VAPORS OR MISTS.

STORAGE INFORMATION:

RECOMMENDED STORAGE CONDITIONS ARE 35 – 45 °F (2 – 7 °C) UNDER NITROGEN ATMOSPHERE.

STORE IN COOL PLACE WITH ADEQUATE VENTILATION. AVOID CONTACT WITH AIR.

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:

CHEMICAL SPLASH GOGGLES OR FACE SHIELD WITH SAFETY GLASSES WITH SIDE SHIELDS.

OTHER PROTECTIVE EQUIPMENT:

WEAR A CHEMICAL APRON OR OTHER SUITABLE CLOTHING TO PREVENT SKIN CONTACT.

HAVE EYEWASH AND SAFETY SHOWER AVAILABLE IN THE WORK AREA.

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

SECTION 09 - PHYSICAL AND CHEMICAL PROPERTIES

CHEMICAL FORMULA: Na₂S₂O₄ (for sodium hydrosulfite)

MOLECULAR WEIGHT: 174.1 (for sodium hydrosulfite)

PHYSICAL STATE: LIQUID

APPEARANCE AND ODOR: CLEAR SOLUTION, SLIGHT PUNGENT ODOR

ODOR THRESHOLD: NO DATA AVAILABLE

pH: 10-13.5 SOLUBILITY IN WATER (% IN WATER): MISCIBLE SPECIFIC GRAVITY: 1.12-1.18

VAPOR DENSITY (AIR=1): NOT DETERMINED BOILING POINT (°F): > 212 (100 °C)

FREEZING POINT ($^{\circ}$ F): $< 32 (0 \, ^{\circ}$ C)

VAPOR PRESSURE (MM HG):

EVAPORATION RATE:

NOT DETERMINED

NOT DETERMINED

PERCENT VOLATILE BY VOLUME:

70-95 % (water)

OCTANOL/WATER PARTITION COEFFICIENT: Log $P_{OW} < -2.75$ to -4.7 (estimated) – for sodium hydrosulfite

SECTION 10 - STABILITY AND REACTIVITY

STABILITY: STABLE.

CONDITIONS TO AVOID: IN CONTACT WITH AIR, MIXING SODIUM HYDROSULFITE

SOLUTIONS WITH POLYSULFIDE OR SULFIDE

CONTAINING PRODUCTS MAY LIBERATE POTENTIALLY

LETHAL HYDROGEN SULFIDE GAS.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

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

<u>Under 29 CFR 1910.119</u>, DATED JULY 3, 1996 FOR ADDITIONAL INFORMATION.

Note: Product is dilute aqueous sodium hydrosulfite solution and is not expected to cause fire or explosion under routine use.

SECTION 11 - TOXICOLOGICAL INFORMATION

SLIGHTLY TOXIC ORALLY. MAY CAUSE GASTRONINTESTINAL DISTURBANCES.

PRACTICALLY NON-TOXIC BY SKIN ABSORPTION. NECROSIS OBSERVED IN ONE SKIN IRRITATION STUDY OF LABORATORY ANIMALS (RABBITS).

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 DESCRIPTION RESULTS **TESTED ON** > 500 mg/kg BODY WEIGHT LD_{50} (ORAL): LETHAL DOSE (50%) **RAT** > 10000 mg/kg BODY WEIGHT LD₅₀ (DERMAL): LETHAL DOSE (50%) **RABBIT** SLIGHT TO MODERATE SKIN EFFECTS: SKIN IRRITATION **RABBIT** MILD TO MODERATE **EYE EFFECTS: EYE IRRITATION RABBIT**

NOTE: PRODUCT SHOWS A LOW DEGREE OF ORAL TOXICITY IN LABORATORY ANIMALS. RESULTS REPORTED ARE BASED ON PRODUCT OF TYPICAL COMPOSITION.

SECTION 12 - ECOLOGICAL INFORMATION

ENVIRONMENTAL TOXICITY SPECIES	: TEST TYPE	ENDPOINT	DURATION (hours)	DESCRIPTION	RESULT (mg/l)
ACUTE TOXICITY LEUCISCUS IDUS (fresh water fish)	Field observation Not specified	Not Specified Lethal Concentration (50%)	48	NOEC LC ₅₀	10 – 100 10 - 100
	Static	Not Specified Lethal Concentration (50%)	96	LC_0 LC_{50}	46 46-68
DAPHNIA MAGNA STRAUS (other aquatic arthropod)	Directive 4/449/EEC	Not Specified	24	$\begin{array}{c} EC_0 \\ EC_{50} \\ EC_{100} \end{array}$	62.5 120 250
		Not Specified	48	$\begin{array}{c} EC_0 \\ EC_{50} \\ EC_{100} \end{array}$	62.5 98 250
SCENEDESMUS SUBSPICATUS (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
PSEUDOMONAS PUTIDA (bacteria)	Other	Not Specified	17	$\begin{array}{c} EC_{10} \\ EC_{50} \\ EC_{90} \end{array}$	62 107 220
OTHER BACTERIA (bacteria)	Other – DEV-L3	Not specified	Not Specified	EC_{10}	> 20
OTHER BACTERIA (Spirulina labyrinthiformis)	Static	Photosynthesis effect	2	EC	0.32
CHRONIC TOXICITY DAPHNIA MAGNA (crustacea)	Other	Mortality Reproduction Rate	21 days 21 days	LC ₀ NOEC	> 10 > 10

NOTE: RESULTS REPORTED ABOVE ARE BASED ON RESEARCH OF STUDIES CONDUCTED ON SODIUM HYDROSULFITE. ACTUAL PRODUCTS HAVE NOT BEEN TESTED. RESULTS EXPECTED TO BE GREATER THAN THOSE REPORTED ABOVE.

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 (D002) IF pH≥ 12.5. SUCH WASTE IS SUBJECT TO LAND DISPOSAL RESTRICTIONS OUTLINED IN 40 CFR 268.

PRODUCT IS NOT ANTICIPATED TO BECOME RCRA HAZARDOUS WASTE BECAUSE WHEN EXPOSED TO AIR, pH DROPS RAPIDLY.

DISPOSE OF MATERIAL IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS AT APPROVED WASTE MANAGEMENT SITE.

SECTION 14 - TRANSPORT INFORMATION

U.S. DOT REGULATED: NOT REGULATED

SHIPPING NAME: CHEMICALS N.O.I. (Not Otherwise Identified)

UN/NA NUMBER: NOT APPLICABLE

CANADIAN TRANSPORT REGULATION:

SHIPPING NAME:

UN/NA NUMBER:

NOT APPLICABLE

NOT APPLICABLE

INTERNATIONAL AIR TRANSPORTATION

REGULATIONS:

NOT REGULATED

SHIPPING NAME:

NOT APPLICABLE

UN/NA NUMBER:

NOT APPLICABLE

INTERNATIONAL MARITIME DANGEROUS GOODS

REGULATION:NOT REGULATEDSHIPPING NAME:NOT APPLICABLEUN/NA NUMBER:NOT APPLICABLE

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 SUBSTANCES CONTROL ACT (TSCA).

SARA (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

SARA (SECTION 311/312):		SARA (SECTION 302):	
REACTIVE HAZARD:	N	EXTREMELY HAZARDOUS SUBSTANCE:	N
PRESSURE HAZARD:	N	CERCLA HAZARDOUS SUBSTANCE:	Y
FIRE HAZARD:	N		
IMMEDIATE/ACUTE:	Y		
DELAYED/CHRONIC:	N		

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 EXPECTED

LOSS ON DRYING (%): 70-95% (DUE TO LOSS OF WATER)

CERCLA - COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT:

2. SODIUM SALT

5. SODIUM SALT, MINERAL ACID DERIVATIVE

(FOR COMPONENTS LISTED IN SECTION 2)

RO = 1000 lbsRQ = 5000 lbs

RCRA (RESOURCE CONSERVATION & RECOVERY

ACT) HAZARDOUS WASTE:

YES, IF pH > 12.5. PRODUCT NOT ANTICIPATED TO BECOME HAZARDOUS WASTE SINCE pH DROPS RAPIDLY

WHEN EXPOSED TO AIR.

D002 RCRA#:

FDA: THIS PRODUCT IS NOT REGISTERED WITH THE FOOD AND

DRUG ADMINSTRATION (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 176.10 & 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

ALL COMPONENTS LISTED LISTED ON DOMESTIC SUBSTANCE LIST (DSL):

LISTED AS PRIORITY SUBSTANCE: COMPONENTS ARE NOT LISTED

LISTED AS TOXIC SUBSTANCE: COMPONENTS ARE NOT LISTED

EXPORT CONTROL LIST: COMPONENTS ARE NOT LISTED

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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: D **DIVISION:** 2B

EUROPEAN/INTERNATIONAL REGULATIONS:

EUROPEAN INVENTORY OF EXISTING COMMERCIAL

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

EUROPEAN PRIORITY LISTS: THIS CHEMICAL SUBSTANCE IS NOT LISTED IN A

> PRIORITY LIST (AS FORSEEN UNDER COUNCIL REGULATION (EEC) NO 793/93 ON THE EVALUATION

AND CONTROL OF THE RISKS OF EXISTING

SUBSTANCES).

Xn (HARMFUL) **HAZARD SYMBOLS:**

RISK PHRASES: R22 - Harmful if swallowed.

R31 – Contact with acids liberates toxic gas.

SAFETY PHRASES: S7 – Keep container tightly closed.

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:

RIGHT TO KNOW (RTK) SUBSTANCE NUMBER – 1697 (Sodium Dithionite) **NEW JERSEY:**

CALIFORNIA PROPOSITION 65: PRODUCT IS NOT LISTED

LABEL INFORMATION:

LABEL HAZARDS:

CAUTION! MAY CAUSE EYE AND SKIN IRRITATION.

LABEL PRECAUTIONS: AVOID CONTACT WITH EYES, SKIN AND CLOTHING. WASH THOROUGHLY AFTER

HANDLING. WEAR PROPER PROTECTIVE EQUIPMENT.

AVOID BREATHING VAPORS. 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

HMIS - Hazardous Materials Identification System

IARC - International Agency for Research on Cancer

LC - Lethal Concentration

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)

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 CCPA AND ADHERES TO THE CODES OF RESPONSIBLE CARE.

