



KENCRO

CHEMICALS

SODIUM METABISULPHITE FOOD GRADE

MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY INFORMATION

PRODUCT IDENTIFIER: SODIUM METABISULPHITE FOOD GRADE
PRODUCT USE: REDUCING AGENT, CHEMICAL INTERMEDIATE
CHEMICAL FAMILY: SODIUM DISULPHITE, INORGANIC SALTS
SUPPLIER'S NAME AND ADDRESS: KENCRO CHEMICALS LIMITED
2172 WYECROFT RD., UNIT #4
OAKVILLE, ON
L6L 5V6
905-827-4133
24 HR. EMERGENCY NUMBER: 613-996-6666 (CANUTEC)

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	C.A.S. #	WT.%	LC50	LD50 PARENTERAL	EXPOSURE LIMIT
SODIUM METABISULPHITE	7681-57-4	97-100	N/AV.	910MG/KG (MICE)	5 MG/M ³ 8HR TWA (ACGIH-TLV)

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

IRRITANT TO EYES, SKIN AND RESPIRATORY PASSAGE.
HARMFUL IF SWALLOWED.

SIGNS AND SYMPTOMS OF SHORT-TERM EXPOSURE:

SKIN CONTACT: REPEATED OR PROLONGED CONTACT WITH DUST MAY CAUSE IRRITATION. CONTACT WITH SOLUTION WILL IRRITATE.
SKIN ABSORPTION: NONE KNOWN
EYE CONTACT: CAUSES EYE IRRITATION. DUST OR MIST MAY IRRITATE OR BURN EYES.
INHALATION: INHALATION OF VAPOURS OR MISTS MAY CAUSE IRRITATION OF RESPIRATORY PASSAGES.
INGESTION: HARMFUL IF SWALLOWED.
POTENTIAL CHRONIC HEALTH EFFECTS: PROLONGED CONTACT MAY BE SEVERELY IRRITATING OR CAUSE BURNS.

SECTION 4: FIRST AID MEASURES

GENERAL: CONSULT PHYSICIAN IF IRRITATION PERSISTS IN ANY OF THE BELOW CASES.
INHALATION: IF INHALED MOVE VICTIM TO FRESH AIR.
SKIN CONTACT: IN CASE OF SKIN CONTACT, IMMEDIATELY WASH WITH SOAP AND PLENTY OF WATER. WASH CLOTHING BEFORE REUSE.
EYE CONTACT: IN CASE OF EYE CONTACT, IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. HOLD EYE LIDS OPEN DURING FLUSHING.
INGESTION: IF CONSCIOUS GIVE 2 GLASSES OF WATER AND IMMEDIATELY INDUCE VOMITING AS DIRECTED BY MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

SECTION 5: FIRE FIGHTING MEASURES

FIRE HAZARDS/CONDITION OF FLAMMABILITY:

NON FLAMMABLE

FLASH POINT: N/AV.

FLASH POINT METHOD: N/AV.

AUTO IGNITION TEMPERATURE: N/AV.

LOWER FLAMMABLE LIMIT: NONE **UPPER FLAMMABLE LIMIT:** NONE
(% BY VOL.)

OXIDIZING PROPERTIES: N/AV.

FLAME PROJECTION LENGTH: N/AV.

SUITABLE EXTINGUISHING MEDIA: FOAM, WATER

SPECIAL FIRE-FIGHTING PROCEDURES/EQUIPMENT:

SODIUM METABISULPHITE IS NON-FLAMMABLE BUT MAY DECOMPOSE IN FIRE TO LIBERATE SULFUR DIOXIDE, TOXIC GAS. DECOMPOSITION PRODUCT SODIUM SULFIDE HAS A DANGEROUS FIRE RISK. FIREFIGHTERS SHOULD WEAR FULL PROTECTIVE GEAR INCLUDING SELF-CONTAINED BREATHING APPARATUS WITH FULL FACESHIELD OPERATED IN POSITIVE PRESSURE MODE. WHEN HEATED ABOVE 150°C (302°F), OR MIXED WITH WATER AND/OR ICE, PRODUCT RELEASES SULFUR DIOXIDE GAS AND EXCESS HEAT.

HAZARDOUS COMBUSTION PRODUCTS:

SULFUR DIOXIDE GAS WHICH IS TOXIC AND CORROSIVE. SODIUM SULFIDE RESIDUE WHICH IS FLAMMABLE, STRONG IRRITANT TO SKIN AND TISSUE AND INCOMPATIBLE WITH ACIDS.

SECTION 6: ACCIDENTAL RELEASE MEASURES

LEAK AND SPILL PROCEDURES:

PREVENT RUNOFF INTO DRAINS, SEWERS AND OTHER WATERWAYS. WEAR NIOSH/MSHA APPROVED ORGANIC VAPOUR/MIST RESPIRATOR, SWEEP UP OR VACUUM CAREFULLY TO MINIMIZE THE AMOUNT OF DUST THAT MAY BECOME AIRBORNE. PLACE IN SUITABLE CLEAN, DRY CONTAINERS FOR RECLAMATION OR LATER DISPOSAL. DO NOT FLUSH SPILLED MATERIAL INTO THE SEWER. KEEP UNNECESSARY PEOPLE AWAY.

SECTION 7: HANDLING AND STORAGE

SAFE HANDLING PROCEDURES:

AVOID CONTACT WITH EYES, SKIN OR CLOTHING. AVOID BREATHING DUST. DO NOT WEAR CONTACT LENSES. KEEP AWAY FROM WATER, ICE AND ACIDS. KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME. WEAR PROTECTIVE EQUIPMENT. AFTER HANDLING, ALWAYS WASH HANDS THOROUGHLY WITH SOAP AND WATER. WASH HANDS BEFORE EATING.

STORAGE REQUIREMENTS:

STORE IN A DRY AND WELL-VENTILATED AREA. STORE AWAY FROM WATER, ICE, ACIDS AND OXIDIZING AGENTS. RELEASES SULFUR DIOXIDE SLOWLY AT AMBIENT TEMPERATURES. EMPTY CONTAINERS RETAIN HAZARDOUS PRODUCT RESIDUES, BOTH POWDERS AND DUST.

INCOMPATIBLE MATERIALS:

REACTS WITH ACIDS, OXIDIZING AGENTS, SULFIDES, NITRITES AND NITRATES. WATER AND/OR ICE WHICH GENERATES TOXIC SULFUR DIOXIDE GAS.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE LIMITS

INGREDIENTS	ACGIH TLV		OSHA PEL	
	TWA	STEL	PEL	STEL
SODIUM METABISULPHITE	5 MG/M ³ 8HR	N/AV.	N/AV.	N/AV.

SEE COMPOSITION/INFORMATION ON INGREDIENTS, SECTION 2.

ENGINEERING CONTROLS:

LOCAL EXHAUST SYSTEM IS RECOMMENDED TO KEEP AIR CONTAMINANT CONCENTRATION BELOW APPLICABLE EXPOSURE LIMITS. ADEQUATE VENTILATION SHOULD BE PROVIDED IN CASE OF PRESENCE OF SULFUR DIOXIDE GAS. IF USER OPERATIONS GENERATE DUST, FUME OR MIST, USE VENTILATION TO KEEP EXPOSURE TO AIRBORNE CONTAMINANTS BELOW THE EXPOSURE LIMIT. EYE WASH STATION AND WASHING FACILITIES SHOULD BE AVAILABLE.

GLOVES/TYPE:

CHEMICAL RESISTANT GLOVES

RESPIRATORY/TYPE:

WEAR NIOSH/MSHA APPROVED CHEMICAL FILTER RESPIRATOR IF EXPOSED TO DUST PARTICLES DURING PRODUCT APPLICATION OR IF OCCUPATIONAL EXPOSURE LIMITS (TLV) ARE EXCEEDED.

EYE/TYPE:

SPLASH GOOGLES OR SAFETY GLASSES

FOOTWEAR/TYPE:

IMPERVIOUS BOOTS

CLOTHING/TYPE:

IMPERMEABLE APRON, PROTECTIVE CLOTHING. REMOVE AND WASH CONTAMINATED CLOTHING BEFORE REUSE.

OTHER/TYPE:

EYE BATH AND SAFETY SHOWER FACILITY SHOULD BE IN CLOSE PROXIMITY.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	CRYSTALLINE POWDER	APPEARANCE:	WHITE TO SLIGHTLY YELLOW
ODOUR:	SULFUR DIOXIDE ODOUR, FAINT	ODOUR THRESHOLD:	N/AV.
PH:	4-4.8 (5% SOLUTION @ 20°C)	BOILING POINT:	N/AP.
SPECIFIC GRAVITY:	N/AV.	MELTING/FREEZING POINT:	N/AV.
BULK DENSITY:	1250-1450KG/M ³	DECOMPOSITION TEMPERATURE:	>150°C
VAPOUR DENSITY (AIR=1):	N/AV.	SOLUBILITY IN WATER:	470G/L (20°C)
EVAPOURATION RATE:	N/AV.		
MOLECULAR WEIGHT:	190.11		
MOLECULAR FORMULA:	Na ₂ S ₂ O ₅		

SECTION 10: REACTIVITY AND STABILITY DATA

STABILITY AND REACTIVITY:

STABLE AT AMBIENT TEMPERATURES AND ATMOSPHERIC PRESSURE.

CONDITIONS TO AVOID:

EXPOSURE TO EXCESSIVE HEAT. TEMPERATURES ABOVE 150°C CAUSE EVOLUTION OF TOXIC AND CORROSIVE SULFUR DIOXIDE GAS. REACTS WITH ACIDS, OXIDIZING AGENTS, SULFIDES, NITRITES AND NITRATES (MAY IGNITE OR EVEN EXPLODE). WATER AND/OR ICE WHICH GENERATES TOXIC SULFUR DIOXIDE GAS.

HAZARDOUS DECOMPOSITION PRODUCTS:

SULFUR DIOXIDE (SO₂). SODIUM SULFIDE RESIDUE WHICH IS FLAMMABLE, STRONG IRRITANT TO SKIN AND TISSUE.

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL DATA: SEE COMPOSITION/INFORMATION ON INGREDIENTS, SECTION 2.

CARCINOGENIC STATUS: NOT A KNOWN CARCINOGEN. NOT LISTED AS A CARCINOGEN BY NTP, IARC OR OSHA.

REPRODUCTIVE EFFECTS: N/AV.

TERATOGENICITY: N/AV.

MUTAGENICITY: N/AV.

SENSITIZATION TO MATERIAL:

MAY CAUSE SEVERE OR DEADLY ALLERGIC REACTIONS IF INHALED OR IN SOME ASTHMATICS AND SULPHITE SENSITIVE INDIVIDUALS. POSSIBLE SIGNS AND SYMPTOMS OF ALLERGIC REACTION INCLUDE BRONCHOCONSTRICTION, SWEATING, FLUSHING, HIVES, RAPID HEART RATE, DECREASED BLOOD PRESSURE AND ANAPHYLAXIS.

SYNERGISTIC MATERIALS:N/AV.

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL EFFECTS:

MAY CAUSE OXYGEN CONSUMPTION IN BIOLOGICAL PURIFICATION PLANTS. THE DECOMPOSING ACTIVITY OF THE ACTIVATED SLUDGE IN AN OPERATING BIOLOGICAL WATER TREATMENT PLANT SHOULD NOT BE AFFECTED. SULFUR DIOXIDE IS LIBERATED IN AN ACIDIC ENVIRONMENT.

BIODEGRADABILITY: THIS PRODUCT SHOULD NEVER ENTER WASTE WATER STREAMS WITHOUT PRETREATMENT.

IMPORTANT ENVIRONMENTAL CHARACTERISTICS:

THE ELIMINATION TEST CANNOT BE CONDUCTED AS THE PRODUCT IS INORGANIC.

ECOTOXICOLOGICAL: LC50: 100-200MG/L (RAINBOW TROUT, 48HR).

SECTION 13: DISPOSAL CONSIDERATIONS

HANDLING FOR DISPOSAL:

AVOID CONTACT WITH EYES, SKIN OR CLOTHING. AVOID BREATHING DUST. DO NOT WEAR CONTACT LENSES. KEEP AWAY FROM WATER, ICE AND ACIDS. KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME. WEAR PROTECTIVE EQUIPMENT. EMPTY CONTAINERS RETAIN HAZARDOUS PRODUCT RESIDUES, BOTH POWDERS AND DUST. RECOVERED SOLUTIONS ARE TO BE OXIDIZED WITH SODIUM HYPOCHLORITE OR HYDROGEN PEROXIDE. AFTERWARDS, NEUTRALIZE THE SOLUTION AND DILUTE WITH WATER. FINISH CLEANING BY SPREADING WATER ON THE CONTAMINATED SURFACE.

METHOD OF DISPOSAL: MUST BE DISPOSED OF IN A SPECIAL WASTE DISPOSAL PLANT IN ACCORDANCE WITH LOCAL, PROVINCIAL AND FEDERAL REGULATIONS.

SECTION 14: TRANSPORTATION INFORMATION

PROPER SHIPPING NAME: SODIUM METABISULPHITE
TDG CLASSIFICATION: NOT REGULATED

SECTION 15: REGULATORY INFORMATION

WHMIS CLASSIFICATION: D2B (POISONOUS AND INFECTIOUS MATERIALS, TOXIC)

SECTION 16: OTHER INFORMATION

LEGEND:	ACGIH	AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS
	CAS #	CHEMICAL ABSTRACTS SERVICE REGISTRY NUMBER
	IARC	INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
	LC	LETHAL CONCENTRATION
	LD	LETHAL DOSE
	MSHA	MINE SAFETY AND HEALTH ADMINISTRATION
	N/AP.	NOT APPLICABLE
	N/AV.	NOT AVAILABLE
	NIOSH	NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH
	NTP	NATIONAL TOXICOLOGICAL PROGRAM
	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
	PEL	PERMISSIBLE EXPOSURE LIMIT
	STEL	SHORT TERM EXPOSURE LIMIT
	TDG	TRANSPORTATION OF DANGEROUS GOODS ACT/REGULATIONS
	TLV	THRESHOLD LIMIT VALUE
	TWA	TIME WEIGHTED AVERAGE
	WHMIS	WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM

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