



KENCRO

CHEMICALS

PRODUCT: SODIUM METABISULPHITE

SECTION 1: PRODUCT INFORMATION

T.D.G. CLASSIFICATION	NOT REGULATED
UN NUMBER	N.AP.
PACKING GROUP	N.AP.
PRODUCT NAME	SODIUM METABISULPHITE
SYNONYMS	SODIUM PYROSULFITE; PYROSULFUROUS ACID, DISODIUM SALT
WHMIS CLASSIFICATION	E D2
CHEMICAL FORMULA	NA ₂ S ₂ O ₅
MOLECULAR WEIGHT	190.11G/MOLE
CHEMICAL FAMILY	INORGANIC SALT
MATERIAL USE	FOOD ADDITIVE E223

SECTION 2: HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	%	T.L.V.	C.A.S. #	LD/50,ROUTE,SPECIE	LC/50 ROUTE SPECIE
SODIUM METABISULPHITE	>98 W/W	5 MG/M ³	7681-57-4	FCC: 1540 MG/KG (ORAL, RAT) FOOD GRADE: 115 MG/KG (ORAL,RAT)	N.AV.
SODIUM SULFATE	2		7757-82-6	N.AV.	N.AV.

SECTION 3: PHYSICAL DATA

APPEARANCE	CRYSTALS, OFF-WHITE
PHYSICAL STATE	SOLID
ODOUR	PUNGENT SULFUR DIOXIDE GAS ODOUR
ODOUR THRESHOLD	N.AV.
VAPOUR PRESSURE (MMHG)	N.AP.
VAPOUR DENSITY (AIR=1)	N.AP.
EVAPORATION RATE	N.AP.
BOILING POINT	DECOMPOSES RAPIDLY ABOVE (150°C)
FREEZING POINT N.AP.	
PH FCC	4.6 (5% SOLUTION)
	FOOD GRADE 4.3 (1% SOLUTION)
SPECIFIC GRAVITY (WATER=1) FCC	1.4
	FOOD GRADE 1.48
SOLUBILITY IN WATER (% W/W) TEMP. °C	10 15 20 25 30 40 50 60 70 80
	g NA ₂ S ₂ O ₅ 38.8 39.2 39.6 40.1 40.5 41.7 42.8 44.1 45.1 46.9
COEFFICIENT OF WATER/OIL	N.AP.
DIST.	
BULK DENSITY	FCC 1.2-1.3 KG/DM ³
	FOOD GRADE 1.48 G/ML

SECTION 4: FIRE AND EXPLOSION DATA

FLAMMABILITY	NOT FLAMMABLE
IF YES, UNDER WHICH CONDITIONS?	
EXTINGUISHING MEDIA	FOR FIRES INVOLVING THIS PRODUCT, WATER, WATER FOG OR CARBON DIOXIDE (CO ₂) MAY BE USED

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SPECIAL PROCEDURES	WEAR NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS WHEN EITHER IN CONFINED AREAS OR EXPOSED TO COMBUSTION PRODUCTS
FLASH POINT(C), METHOD	N.AP.
AUTO IGNITION TEMPERATURE	N.AP.
UPPER FLAMMABLE LIMIT(UFL) (% BY VOL)	N.AP.
LOWER FLAMMABLE LIMIT(LFL) (% BY VOL)	N.AP.
UNUSUAL FIRE AND EXPLOSION HAZARDS	EXCESSIVE TEMPERATURE MAY CAUSE PRODUCT TO DECOMPOSE. CONTACT WITH SMALL AMOUNTS OF WATER GIVE OFF HEAT
HAZARDOUS COMBUSTION PRODUCTS	NONE KNOWN
EXPLOSION DATA	
SENSITIVITY TO STATIC DISCHARGE	N.AP.
SENSITIVITY TO IMPACT	N.AP.
RATE OF BURNING	N.AP.
EXPLOSIVE POWER	N.AP.

SECTION 5: REACTIVITY DATA

CHEMICAL STABILITY	
YES	STABLE AT AMBIENT TEMPERATURE AND ATMOSPHERIC PRESSURE.
NO, WHICH CONDITIONS?	AVOID EXCESSIVE HEAT. PROTECT FROM HUMIDITY
COMPATIBILITY WITH OTHER SUBSTANCES	YES
NO, WHICH ONES	AVOID CONTACT WITH ACIDS AND OXIDIZING AGENTS
REACTIVITY CONDITIONS	NITRATES & NITRITES - MAY IGNITE OR EVEN EXPLODE. AVOID EXCESSIVE HEAT (>150°C), OXIDIZERS, ACIDS, WATER OR ICE. PROTECT FROM HUMIDITY.
HAZARDOUS POLYMERIZATION CONDITIONS TO AVOID	WILL NOT OCCUR TEMPERATURES ABOVE 150°C CAUSE EVOLUTION OF TOXIC AND CORROSIVE GAS - SULPHUR DIOXIDE
HAZARDOUS PRODUCTS DECOMPOSITION	HEAT AND SULFUR DIOXIDE GAS IN CONTACT WITH HEAT, WATER, ICE, OF ACIDS OR OXIDIZING AGENTS WHICH MAY BE HARMFUL OR DEADLY WHEN INHALED DURING DECOMPOSITION (150°C).

SECTION 6: TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY	
SKIN CONTACT	MAY CAUSE SKIN IRRITATION WITH PROLONGED EXPOSURE. SULPHITE SENSITIVE INDIVIDUAL MAY EXPERIENCE A SEVERE AND DEADLY ALLERGIC REACTION.
EYE CONTACT	MAY CAUSE MODERATE IRRITATION. PROLONGED CONTACT MAY BE SEVERELY IRRITATING OR CAUSE BURNS.
INHALATION	MAY CAUSE IRRITATING EFFECTS OF THE RESPIRATORY TRACT. BREATHING OF DUST MAY AGGRAVATE ASTHMA OR OTHER PULMONARY DISEASES. MAY PRODUCE GASTRO INTESTINAL UPSET, NAUSEA OR VOMITING.
INGESTION	WILL CAUSE ADVERSE HEALTH EFFECTS. INGESTIONS OF LARGE DOSES MAY BE FATAL.
EFFECTS OF ACUTE EXPOSURE	REFER TO ROUTE OF ENTRY
EFFECTS OF CHRONIC EXPOSURE	N.AV.
LD 50 MATERIAL, SPECIES & ROUTE	SEE SECTION II
LC 50 MATERIAL, SPECIES & ROUTE	SEE SECTION II
EXPOSURE LIMIT OF MATERIAL	SEE SECTION II
IRRITANCY OF MATERIAL	SEE ABOVE
SENSITIZING CAPABILITY OF MATERIAL	N.AV.
CARCINOGENICITY OF MATERIAL	N.AV.
REPRODUCTIVE TOXICITY	N.AV.
TERATOGENICITY	N.AV.
MUTAGENICITY	N.AV.
SYNERGISTIC PRODUCTS	N.AV.

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SECTION 7: PREVENTATIVE MEASURES

GLOVES/TYPE	WEAR RUBBER OR PLASTIC 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.	WEAR CHEMICAL GOGGLES
FOOTWEAR/TYPE	BOOTS
CLOTHING /TYPE	FULL SUIT
OTHER/TYPE.	AND WASH CONTAMINATED CLOTHING BEFORE REUSE. WASH THOROUGHLY AFTER HANDLING.
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 STATIONS AND WASHING FACILITIES SHOULD BE AVAILABLE.
LEAK/SPILL	WEAR NECESSARY PROTECTIVE CLOTHING AND EQUIPMENT. SWEEP UP WHILE AVOIDING DUST GENERATION. PLACE IN A PROPERLY LABELLED CONTAINER FOR LATER DISPOSAL. LARGER SPILLS MAY REQUIRE A VACUUM. 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.
WASTE DISPOSAL	DISPOSAL SHALL BE IN ACCORDANCE TO ALL APPLICABLE FEDERAL, PROVINCIAL AND MUNICIPAL WASTE REGULATIONS
HANDLING PROCEDURES	DO NOT HANDLE UNLESS THE SAFETY PRECAUTIONS HAVE BEEN READ AND EQUIPMENT UNDERSTOOD. AVOID EYE AND SKIN CONTACT. AVOID INHALATION OF DUST OR VAPORS. DO NOT PUNCTURE, DRAG OR SLIDE CONTAINERS. DO NOT SMOKE IN ANY CHEMICAL HANDLING OR STORAGE AREA. AFTER HANDLING, ALWAYS WASH HANDS THOROUGHLY WITH SOAP AND WATER. WASH HANDS BEFORE EATING.
STORAGE NEEDS	STORE IN A COOL, DRY, WELL-VENTILATED LOCATION. PROTECT FROM HUMIDITY. AVOID DUST GENERATION. KEEP CONTAINERS TIGHTLY CLOSED AND PROPERLY LABELLED. STORE AWAY FROM INCOMPATIBLE MATERIALS (ACIDS, OXIDIZING AGENTS AND HEAT SOURCES).
SPECIAL SHIPPING INSTRUCTIONS	SEE SECTION 1 TDG CLASSIFICATION

SECTION 8: FIRST AID MEASURES

INSTRUCTIONS

EYE CONTACT: CHECK FOR AND REMOVE ANY CONTACT LENSES. FLUSH EYES IMMEDIATELY WITH FLOWING WATER FOR AT LEAST 15 MINUTES WHILE KEEPING THE UPPER AND LOWER EYELIDS APART. GET MEDICAL ATTENTION.

SKIN CONTACT: REMOVE CONTAMINATED CLOTHING AND SHOES. WASH CLOTHING BEFORE REUSE. THOROUGHLY CLEAN SHOES BEFORE REUSE. WASH AFFECTED SKIN AREA WITH SOAP AND WATER AND RINSE THOROUGHLY WITH FLOWING WATER FOR AT LEAST 15 MINUTES. CONSULT A PHYSICIAN IF IRRITATION PERSISTS OR DEVELOPS.

INGESTION: DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. IF LARGE QUANTITIES OF THIS MATERIAL ARE SWALLOWED, CALL A PHYSICIAN IMMEDIATELY. LOOSEN TIGHT CLOTHING SUCH AS A COLLAR, TIE, BELT OR WAISTBAND. IF PATIENT IS CONSCIOUS GIVE 8-12 OUNCES OF WATER.

INHALATION: IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION. GET MEDICAL ATTENTION FOR EXPOSURE TO SULFUR DIOXIDE GAS.

SPECIAL NOTE: NEVER GIVE FLUIDS OR INDUCE VOMITING TO AN UNCONSCIOUS VICTIM. PLACE VICTIM IN A STABLE SIDE POSITION AND KEEP WARM.

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SECTION 9: PREPARATION INFORMATION

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PREPARED BY	KENCRO CHEMICALS LIMITED
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DATE	JUNE 2008

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LEGEND:

CAS # CHEMICAL ABSTRACTS SERVICE REGISTRY NUMBER
LFL LOWER FLAMMABLE LIMIT
MSHA MINE SAFETY AND HEALTH ADMINISTRATION
N.AP NOT APPLICABLE
N. AV. NOT AVAILABLE
NIOSH NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH
TDG TRANSPORTATION OF DANGEROUS GOODS ACT/REGULATIONS
TLV THRESHOLD LIMIT VALUE
UFL UPPER FLAMMABLE LIMIT
WHMIS WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM