

PRODUCT: SODA ASH DENSE

SECTION 1: PRODUCT INFORMATION

T.D.G. CLASSIFICATION.....NOT REGULATED

PACKING GROUP N.AP.

PRODUCT NAMEDENSE SODA ASH
CHEMICAL NAMESODIUM CARBONATE ANHYDROUS

SYNONYMSSODA ASH; SODA SALT; SODA CRYSTAL; DISODIUM CARBONATE

WHMIS CLASSIFICATION...... D2B: MATERIAL CAUSING OTHER TOXIC EFFECTS

MATERIAL USE...... REFER TO TECHNICAL LITERATURE; CLEANING AGENTS; FOOD ADDITIVE;

SECTION 2: HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	%	T.L.V.	C.A.S. #	LD/50,ROUTE,SPECIE	LC/50,ROUTE,SPECIE
		10 MG/M ³		4000 MG/KG	800 MG/M ³ /2H
SODIUM CARBONATE	~100	(PNOC ACGIH 93-94)	497-19-8	(ORAL, RAT)	(GUINEA PIG)

SECTION 3: PHYSICAL DATA

BOILING POINT. N.AV.

 MELTING POINT
 815°C (1563.8°F)

 PH(1% SOLN/WATER)
 11.5 [BASIC]

 SPECIFIC GRAVITY (WATER=1)
 2.533 @ 20°C

 SOLUBILITY IN WATER (% W/W)
 30% @ 30°C

 COEFFICIENT OF WATER/OIL
 N.AV.

DIST.

VOLATILITY N.AV.

SECTION 4: FIRE AND EXPLOSION DATA

FLAMMABILITY..... NOT FLAMMABLE

IF YES, UNDER WHICH CONDITIONS?

EXTINGUISHING MEDIA FOR FIRES INVOLVING THIS PRODUCT, WATER FOG, CARBON DIOXIDE (CO₂),

ALCOHOL FOAM OR DRY CHEMICAL MAY BE USED. WATER SHOULD NOT BE USED IT MAY RESULT IN HEAT FORMATION. WEAR NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS (SCBA) WHEN EITHER IN CONFINED AREAS OR EXPOSED TO COMBUSTION PRODUCTS. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS.

BREATHING APPARATUS

FLASH POINT(C), METHOD N.AP. AUTO IGNITION TEMPERATURE . . . N.AP.

T.D.G. FLAM. CLASS NOT REGULATED

UPPER FLAMMABLE LIMIT (UFL). N.AP.

(% BY VOL)

LOWER FLAMMABLE LIMIT (LFL) N.AP.

(% BY VOL) PRODUCTS

PRODUCT: SODA ASH DENSE

EXPLOSION DATA SENSITIVITY TO STATIC......N.AV. DISCHARGE SENSITIVITY TO IMPACT.....N.AV.

EXPLOSIVE POWER. SODIUM CARBONATE AND ITS SOLUTION WILL NOT BURN OR SUPPORT

COMBUSTION.

SECTION 5: REACTIVITY DATA

CHEMICAL STABILITY

YES YES NO, WHICH CONDITIONS? AVOID EXCESSIVE HEAT.

COMPATIBILITY WITH OTHER SUBSTANCES:

NO, WHICH ONES? CONTACT WITH ACIDS WILL RELEASE CARBON DIOXIDE GAS. CAN REACT

VIOLENTLY WITH RED HOT ALUMINUM METAL; FLUORINE GAS; LITHIUM AND

2.4.6 TRINITROTOLUENE

CONDITIONS TO AVOID SIMULTANEOUS EXPOSURE TO SODA ASH AND LIME DUST (CaO). IN THE PRESENCE

MOISTURE (ie. PERSPIRATION) THE TWO MATERIALS COMBINE TO FORM CORROSIVE

CAUSTIC SODA (NaOH) WHICH MAY CAUSE BURNS

REACTIVITY CONDITIONS MAY CORRODE FERROUS METALS AND MILD STEEL IN PRESENCE OF MOISTURE

STRONG ACIDS, MAGNESIUM, FLUORINE GAS, PHOSPHOROUS PENTOXIDE.

SULPHURIC ACID, RED HOT ALUMINUM METAL AND WATER.

HAZARDOUS POLYMERIZATION WILL NOT OCCUR

OF DECOMPOSITION ABOVE 400°C

SECTION 6: TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY

SKIN CONTACT. IRRITANT. MILD TO SEVERE IRRITATION. MAY CAUSE SKIN IRRITATION FROM

PROLONGED CONTACT, ESPECIALLY IN HOT WEATHER. SYMPTOMS INCLUDE

ITCHING, BURNING, AND INFLAMMATION.

SKIN ABSORPTION. N.AV.

WATERING. PROLONGED CONTACT MAY DAMAGE EYES.

INHALATION DUST OR MIST INHALATION MAY IRRITATE NOSE, THROAT AND LUNGS. SYMPTOMS

INCLUDE COUGHING, SNEEZING BREATHING DIFFICULTY AND CHEST DISCOMFORT. INHALATION, CHRONIC. . . . N.AV.

INGESTION ALTHOUGH LOW IN TOXICITY, INGESTION CAN BE HARMFUL. MAY CAUSE BURNING

SENSATIONS, NAUSEA, VOMITING, STOMACH ACHE, STOMACH CRAMPS,

CIRCULATORY COLLAPSE, DIARRHEA, AND DEATH.

EFFECTS OF ACUTE EXPOSURE. MODERATELY TOXIC

EFFECTS OF CHRONIC EXPOSURE. . . . EXCESSIVE CONTACT MAY PRODUCE "SODA ULCERS" ON HANDS AND

PERFORATION OF THE NASAL SEPTUM. REPEATED EXPOSURE TO A HIGHLY TOXIC

MATERIAL MAY PRODUCE GENERAL DETERIORATION OF HEALTH BY AN

ACCUMULATION IN ONE OR MANY HUMAN ORGANS.

LD 50 MATERIAL, SPECIES & SEE SECTION II

ROUTE

LC 50 MATERIAL, SPECIES & SEE SECTION II

ROUTE

EXPOSURE LIMIT OF MATERIAL SEE SECTION II

IRRITANCY OF MATERIAL SKIN IRRITATION: MILD (RABBIT)

SOLUTIONS MAY BE CORROSIVE.

SENSITIZING CAPABILITY OF SENSITIVITY REACTIONS MAY OCCUR FROM PROLONGED AND REPEATED

EXPOSURE

MATERIAL

CARCINOGENICITY OF MATERIAL.... NONE REPRODUCTIVE EFFECTS N.AV. SYNERGISTIC MATERIALS.....N.AV. MUTAGENIC EFFECTS N.AV. TERATAGENIC EFFECTS N.AV.

PRODUCT: SODA ASH DENSE

SECTION 7 : PREVENTATIVE MEASURES							
GLOVES/TYPE	WEAR COTTON GLOVES. IMPERVIOUS FOR SOLUTIONS OR WHERE CONTACT IS						
	REPEATED						
RESPIRATORY/TYPE	IN DUSTY ATMOSPHERE, USE AN APPROVED DUST RESPIRATOR. BE SURE TO USE A						
	MSHA/NIOSH APPROVED RESPIRATOR OR EQUIVALENT.						
	. CHEMICAL SAFETY GOGGLES. DO NOT WEAR CONTACT LENSES.						
FOOTWEAR/TYPE							
CLOTHING /TYPE	. WEAR IMPERVIOUS PROTECTIVE CLOTHING. HARD HAT WITH BRIM. FULL SUIT.						
	SUGGESTED PROTECTIVE CLOTHING MIGHT NOT BE SUFFICIENT; CONSULT A						
OTHER/TYPE	SPECIALIST <u>BEFORE</u> HANDLING THIS PRODUCT.						
ENGINEERING CONTROLS	. LOCAL EXHAUST: IN ALL AREAS WHERE DUSTY OR MISTY CONDITIONS PREVAIL.						
	NATURAL VENTILATION: ADEQUATE FOR OTHER AREAS. USE OTHER						
	ENGINEERING CONTROLS TO KEEP AIRBORNE LEVELS BELOW RECOMMENDED						
	EXPOSURE LIMITS. IF USER OPERATIONS GENERATE DUST, FUME, OR MIST, USE						
	VENTILATION TO KEEP EXPOSURE TO AIRBORNE CONTAMINANTS BELOW THE						
	EXPOSURE LIMIT.						
LEAK/SPILL	. PICK UP SOLIDS AND PLACE IN A TIGHTLY SEALED CONTAINER. CAUTIOUSLY						
	SPRAY RESIDUE WITH PLENTY OF WATER. KEEP CONTAMINATED WATER FROM						
	ENTERING SEWERS AND WATER COURSES. USE APPROPRIATE TOOLS TO PUT THE						
	SPILLED SOLID IN A CONVENIENT WASTE DISPOSAL CONTAINER. IF NECESSARY:						
	NEUTRALIZE THE RESIDUE WITH A DILUTE SOLUTION OF ACETIC ACID. FINISH						
	CLEANING BY SPREADING WATER ON THE CONTAMINATED SURFACE AND DISPOSE						
WA CEE DIODOGAL	OF ACCORDING TO LOCAL AND REGIONAL AUTHORITY REQUIREMENTS.						
WASTE DISPOSAL	IN ACCORDANCE WITH MUNICIPAL, PROVINCIAL AND FEDERAL REGULATIONS						
	. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. AVOID BREATHING DUST OR						
AND EQUIPMENT	MIST. WHEN DISSOLVING, ADD WATER CAUTIOUSLY WITH STIRRING. MAINTAIN A						
GTOD A GE NEEDG	GOOD PERSONAL HYGIENE STORE IN A COOL, DRY, WELL VENTILATED PLACE. STORE AWAY FROM						
STORAGE NEEDS	INCOMPATIBLE MATERIALS. PROLONGED STORAGE MAY CAUSE PRODUCT TO						
CAVE							
CAKE	AND BECOME WET FROM ATMOSPHERIC MOISTURE. KEEP CONTAINER TIGHTLY CLOSED. HIGHLY TOXIC OR INFECTIOUS MATERIALS SHOULD BE STORED IN A						
	SEPARATE LOCKED SAFETY CABINET ROOM.						
	SEPARATE LUCKED SAFETT CABINET KUUM.						

SECTION 8 : FIRST AID MEASURES

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SKIN CONTACT: REMOVE ANY CONTAMINATED CLOTHING AND WASH AFFECTED AREA WITH PLENTY OF SOAP AND

WATER. WASH WITH A DISINFECTANT SOAP AND COVER THE CONTAMINATED SKIN WITH AN ANTI-BACTERIAL CREAM. GENTLY AND THOROUGHLY WASH THE CONTAMINATED SKIN WITH RUNNING WATER AND NON-ABRASIVE SOAP. BE PARTICULARLY CAREFUL TO CLEAN FOLDS, CREVICES, CREASES AND GROIN. COVER THE IRRITATED SKIN WITH AN EMOLLIENT. OBTAIN MEDICAL

ATTENTION IMMEDIATELY.

SPECIAL SHIPPING INSTRUCTIONS . . . SEE SECTION 1 TDG CLASSIFICATION

EYE CONTACT: CHECK FOR AND REMOVE ANY CONTACT LENSES. DO NOT USE AN EYE OINTMENT. FLUSH THE EYES

WITH RUNNING WATER FOR 15 MINUTES. HOLD THE EYELIDS APART DURING THE RINSING TO ENSURE FLUSHING OF THE ENTIRE SURFACE OF THE EYE AND LIDS WITH WATER. SEEK MEDICAL ATTENTION.

INHALATION: REMOVE TO FRESH AIR OR ALLOW THE VICTIM TO REST IN A WELL VENTILATED AREA. RESTORE

AND/OR SUPPORT BREATHING. OBTAIN MEDICAL ATTENTION IMMEDIATELY.

INGESTION: GIVE 8 - 12 OUNCES OF WATER. DO NOT INDUCE VOMITING. EXAMINE THE LIPS AND MOUTH (IF

NECESSARY, WEAR PROTECTIVE GLOVES) TO ASCERTAIN WHETHER THE TISSUES ARE DAMAGED, A POSSIBLE INDICATION THAT THE TOXIC MATERIAL WAS INGESTED; THE ABSENCE OF SUCH SIGNS, HOWEVER, IS NOT CONCLUSIVE. LOOSEN TIGHT CLOTHING SUCH AS A COLLAR, TIE, BELT, OR WAISTBAND. IF THE VICTIM IS NOT BREATHING, PERFORM MOUTH-TO-MOUTH RESUSCITATION.

OBTAIN MEDICAL ATTENTION IMMEDIATELY.

SECTION 9: PREPARATION INFORMATION

EMERGENCY PHONE NO (613) 996 6666 (CANUTEC)

N.AP. = NOT APPLICABLE N.AV. = NOT AVAILABLE

PREPARED BY......KENCRO CHEMICALS LIMITED

PRODUCT: SODA ASH DENSE

LEGEND:

LFL LOWER FLAMMABLE LIMIT

MSHA MINE SAFETY & HEALTH ADMINISTRATION

NIOSH NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH

T.D.G. TRANSPORTATION OF DANGEROUS GOODS ACT/REGULATIONS

TLV THRESHOLD LIMIT VALUE

UFL UPPER FLAMMABLE LIMIT
WHMIS WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM

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