



KENCRO

CHEMICALS

PRODUCT: SODA ASH DENSE

SECTION 1: PRODUCT INFORMATION

T.D.G. CLASSIFICATION	NOT REGULATED
UN NUMBER	N.AP.
PACKING GROUP	N.AP.
PRODUCT NAME	DENSE SODA ASH
CHEMICAL NAME	SODIUM CARBONATE ANHYDROUS
SYNONYMS	SODA ASH; SODA SALT; SODA CRYSTAL; DISODIUM CARBONATE
WHMIS CLASSIFICATION	D2B: MATERIAL CAUSING OTHER TOXIC EFFECTS
CHEMICAL FORMULA	NA ₂ CO ₃
MOLECULAR WEIGHT	105.99 g/mole
CHEMICAL FAMILY	INORGANIC
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
SODIUM CARBONATE	~100	10 MG/M ³ (PNOAC ACGIH 93-94)	497-19-8	4000 MG/KG (ORAL, RAT)	800 MG/M ³ /2H (GUINEA PIG)

SECTION 3: PHYSICAL DATA

APPEARANCE	WHITE (POWDER. HYGOSCOPIC (ABSORBS MOISTURE FROM THE AIR)
PHYSICAL STATE	SOLID
ODOR	NO ODOR
ODOR THRESHOLD	N.AV.
VAPOR PRESSURE (MMHG)	N.AV.
VAPOR DENSITY (AIR=1)	N.AV.
EVAPORATION RATE	N.AV.
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 DIST.	N.AV.
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 (CO ₂), 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.
SPECIAL PROCEDURES	WEAR FULL PROTECTIVE EQUIPMENT INCLUDING SELF-CONTAINED BREATHING APPARATUS
FLASH POINT(C), METHOD	N.AP.
AUTO IGNITION TEMPERATURE	N.AP.

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T.D.G. FLAM. CLASS	NOT REGULATED
UPPER FLAMMABLE LIMIT (UFL) (% BY VOL)	N.AP.
LOWER FLAMMABLE LIMIT (LFL) (% BY VOL) PRODUCTS	N.AP.
EXPLOSION DATA	
SENSITIVITY TO STATIC. DISCHARGE	N.AV.
SENSITIVITY TO IMPACT	N.AV.
RATE OF BURNING	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:	
YES	
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, ACID, RED HOT ALUMINUM METAL AND WATER.
SULPHURIC HAZARDOUS POLYMERIZATION	WILL NOT OCCUR
HAZARDOUS PRODUCTS OF DECOMPOSITION	CARBON MONOXIDE (CO); CARBON DIOXIDE (CO ₂); AND NaO @ TEMPERATURES 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.
EYE CONTACT	IRRITANT. MILD TO MODERATE IRRITATION. SYMPTOMS INCLUDE PAIN AND 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 INGESTION	N.AV. 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 & ROUTE	SEE SECTION II
LC 50 MATERIAL, SPECIES & ROUTE	SEE SECTION II
EXPOSURE LIMIT OF MATERIAL	SEE SECTION II
IRRITANCY OF MATERIAL	SKIN IRRITATION: MILD (RABBIT) SOLUTIONS MAY BE CORROSIVE.
SENSITIZING CAPABILITY OF MATERIAL	SENSITIVITY REACTIONS MAY OCCUR FROM PROLONGED AND REPEATED EXPOSURE
CARCINOGENICITY OF MATERIAL	NONE
REPRODUCTIVE EFFECTS	N.AV.

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SYNERGISTIC MATERIALS N.AV.
MUTAGENIC EFFECTS N.AV.
TERATAGENIC EFFECTS N.AV.

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.

EYE/TYPE CHEMICAL SAFETY GOGGLES. DO NOT WEAR CONTACT LENSES.

FOOTWEAR/TYPE SAFETY SHOES. BOOTS.

CLOTHING /TYPE WEAR IMPERVIOUS PROTECTIVE CLOTHING. HARD HAT WITH BRIM. FULL SUIT. SUGGESTED PROTECTIVE CLOTHING MIGHT NOT BE SUFFICIENT; CONSULT A SPECIALIST BEFORE HANDLING THIS PRODUCT.

OTHER/TYPE EYE BATH AND SAFETY SHOWER

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 OF ACCORDING TO LOCAL AND REGIONAL AUTHORITY REQUIREMENTS.

WASTE DISPOSAL AND EQUIPMENT HANDLING PROCEDURES IN ACCORDANCE WITH MUNICIPAL, PROVINCIAL AND FEDERAL REGULATIONS AVOID CONTACT WITH EYES, SKIN AND CLOTHING. AVOID BREATHING DUST OR MIST. WHEN DISSOLVING, ADD WATER CAUTIOUSLY WITH STIRRING. MAINTAIN A GOOD PERSONAL HYGIENE.

STORAGE NEEDS STORE IN A COOL, DRY, WELL VENTILATED PLACE. STORE AWAY FROM INCOMPATIBLE MATERIALS. PROLONGED STORAGE MAY CAUSE PRODUCT TO 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.

SPECIAL SHIPPING INSTRUCTIONS SEE SECTION 1 TDG CLASSIFICATION

SECTION 8: FIRST AID MEASURES

INSTRUCTIONS:

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.

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.

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SECTION 9: PREPARATION INFORMATION

EMERGENCY PHONE NO	(613) 996 6666 (CANUTEC)
N.AP. = NOT APPLICABLE	
N.AV. = NOT AVAILABLE	
PREPARED BY	KENCRO CHEMICALS LIMITED
	(905) 827 4133
DATE	JUNE 2008

LEGEND:

ACGIH	AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS
CAS #	CHEMICAL ABSTRACTS SERVICE REGISTRY NUMBER
LFL	LOWER FLAMMABLE LIMIT
MSHA	MINE SAFETY & HEALTH ADMINISTRATION
N.AP	NOT APPLICABLE
N. AV	NOT AVAILABLE
NIOSH	NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH
SCBA	SELF-CONTAINED BREATHING APPARATUS
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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