



CANADA COLORS & CHEMICALS LTD  
80 SCARSDALE ROAD  
DON MILLS, ONTARIO, CANADA M3B 2R7  
(416)-449-7750

PRODUCT : SODA ASH DENSE (GENERAL)

CODE: 800140

### SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER/SUPPLIER.....GENERAL CHEMICAL CANADA LTD.  
201 CITY CENTRE DRIVE  
MISSISSAUGA, ONTARIO  
L5B 3A3  
PREPARED BY.....ENVIRONMENTAL & REGULATORY AFFAIRS DEPARTMENT  
PREPARATION DATE.....JAN 02/2003  
PRODUCT NAME.....SODA ASH DENSE (GENERAL)  
PRODUCT CODE.....800140  
CHEMICAL FORMULA.....NA2CO3  
MOLECULAR WEIGHT.....105.99  
CHEMICAL FAMILY.....INORGANIC  
MATERIAL USE.....REFER TO TECHNICAL LITERATURE  
CAS NUMBER (D.S.L. REPORTING)....497-19-8  
EMERGENCY PHONE NO.....(416)-444-2112

### SECTION 02: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS/COMPOSITION	EXPOSURE LEVELS	LD/50, ROUTE, SPECIES	LC/50, ROUTE, SPECIES
SODIUM CARBONATE % :~100 CAS #:497-19-8	SEE/VOIR SECTION 11	SEE SECTION 11	SEE SECTION 11

### SECTION 03: HAZARDS IDENTIFICATION

ROUTE OF ENTRY:  
SKIN CONTACT.....MAY CAUSE SKIN IRRITATION FROM PROLONGED CONTACT,  
ESPECIALLY IN HOT WEATHER.  
SKIN ABSORPTION.....N.AV.  
EYE CONTACT.....MAY IRRITATE OR BURN EYES.  
INHALATION.....DUST OR MIST INHALATION MAY IRRITATE NOSE, THROAT AND LUNGS.  
INGESTION.....ALTHOUGH LOW IN TOXICITY, INGESTION CAN BE HARMFUL. MAY  
CAUSE NAUSEA, VOMITING, STOMACHACHE, AND DIARRHEA.  
EFFECTS OF ACUTE EXPOSURE.....MODERATELY TOXIC.  
EFFECTS OF CHRONIC EXPOSURE.....EXCESSIVE CONTACT MAY PRODUCE "SODA ULCERS" ON HANDS AND  
PERFORATION OF THE NASAL SEPTUM.  
INHALATION, CHRONIC.....N.AV.

### SECTION 04: FIRST AID MEASURES

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**SECTION 04: FIRST AID MEASURES**

INSTRUCTIONS:.....IN CASE OF INHALATION, REMOVE TO FRESH AIR. RESTORE AND/OR SUPPORT BREATHING. CONSULT A PHYSICIAN. IF INGESTED, GIVE WATER, DO NOT INDUCE VOMITING, CALL A PHYSICIAN. SKIN CONTACT:.. REMOVE ANY CONTAMINATED CLOTHING AND WASH AFFECTED AREA WITH PLENTY OF SOAP AND WATER. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. EYE CONTACT:.. 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. GET IMMEDIATE MEDICAL ATTENTION.

**SECTION 05: FIRE FIGHTING MEASURES**

FLAMMABILITY.....NOT FLAMMABLE  
IF YES, UNDER WHICH  
CONDITIONS?  
EXTINGUISHING MEDIA.....SUITABLE FOR SURROUNDING FIRE.  
SPECIAL PROCEDURES.....WEAR FULL PROTECTIVE EQUIPMENT INCLUDING A SELF-CONTAINED  
BREATHING APPARATUS.  
FLASH POINT (C), METHOD.....N.AP.  
AUTO IGNITION TEMPERATURE.....N.AV.  
UPPER FLAMMABLE LIMIT (% BY.....N.AP.  
VOL.)  
LOWER FLAMMABLE LIMIT (% BY.....N.AP.  
VOL.)  
EXPLOSION DATA  
EXPLOSIVE POWER.....N.AP.  
RATE OF BURNING.....N.AP.  
SENSITIVITY TO STATIC.....N.AP.  
DISCHARGE  
SENSITIVITY TO IMPACT.....N.AP.  
UNUSUAL FIRE AND EXPLOSION.....NONE  
HAZARDS  
HAZARDOUS COMBUSTION PRODUCTS...SEE HAZARDOUS DECOMPOSITION PRODUCTS.

**SECTION 06: ACCIDENTAL RELEASE MEASURES**

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.

**SECTION 07: HANDLING AND STORAGE**

HANDLING PROCEDURES AND.....AVOID CONTACT WITH EYES, SKIN, AND CLOTHING. AVOID  
EQUIPMENT BREATHING DUST OR MIST. AVOID INGESTION. WHEN DISSOLVING,  
ADD WATER CAUTIOUSLY WITH STIRRING. WEAR PROTECTIVE  
EQUIPMENT DURING HANDLING. MAINTAIN A GOOD PERSONAL HYGIENE.

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**SECTION 07: HANDLING AND STORAGE**

STORAGE NEEDS.....STORE IN A COOL, DRY AND DARK PLACE. STORE AWAY FROM INCOMPATIBLE MATERIALS. PROLONGED STORAGE MAY CAUSE PRODUCT TO CAKE AND BECOME WET FROM ATMOSPHERIC MOISTURE.

**SECTION 08: EXPOSURE CONTROLS/PERSONAL PROTECTION**

GLOVES/ TYPE.....WEAR COTTON GLOVES. IMPERVIOUS FOR SOLUTIONS OR WHERE CONTACT IS REPEATED.

RESPIRATORY/TYPE.....IN DUSTY ATMOSPHERE, USE AN APPROVED DUST RESPIRATOR.

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

FOOTWEAR/TYPE.....SAFETY SHOES

CLOTHING/TYPE.....WEAR IMPERVIOUS PROTECTIVE CLOTHING. HARD HAT WITH BRIM.

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.

**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE.....POWDER. SOLID

ODOUR.....NO ODOUR

ODOUR THRESHOLD.....N.AV.

VAPOUR PRESSURE (MMHG).....N.AP.

VAPOUR DENSITY (AIR=1).....N.AP.

EVAPORATION RATE.....N.AP.

BOILING POINT.....N.AP.

MELTING POINT (C).....854

PH.....11.3. (1%). 11.8. (38%)

SPECIFIC GRAVITY (WATER=1).....2.533

SOLUBILITY IN WATER (% W/W).....17% SOLUTION @ 20 (C)

COEFFICIENT OF WATER/OIL DIST...N.AV.

**SECTION 10: STABILITY AND REACTIVITY**

CHEMICAL STABILITY:

YES.....YES

NO, WHICH CONDITIONS?

COMPATABILITY 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 DUSTS (CaO). IN THE PRESENCE OF 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.

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**SECTION 10: STABILITY AND REACTIVITY**

HAZARDOUS PRODUCTS OF.....HEATING SODA ASH LIBERATES CO<sub>2</sub>. Na<sub>2</sub>CO<sub>3</sub> (SOLID) = Na<sub>2</sub>O  
DECOMPOSITION (SOLID) + CO<sub>2</sub> (GAS)  
HAZARDOUS POLYMERIZATION.....WILL NOT OCCUR

**SECTION 11: TOXICOLOGICAL INFORMATION**

EXPOSURE LIMIT OF MATERIAL.....NOT ESTABLISHED  
LC 50 OF MATERIAL, SPECIES &.....N.AV.  
ROUTE  
LD 50 OF MATERIAL, SPECIES &.....ORAL-RAT: 2.8GM/KG  
ROUTE  
CARCINOGENICITY OF MATERIAL.....NONE  
REPRODUCTIVE EFFECTS.....N.AV.  
IRRITANCY OF MATERIAL.....SKIN IRRITATION: MILD-. (RABBIT)  
SENSITIZING CAPABILITY OF.....SENSITIVITY REACTIONS MAY OCCUR FROM PROLONGED AND REPEATED  
MATERIAL EXPOSURE.  
SYNERGISTIC MATERIALS.....N.AV.

**SECTION 12: ECOLOGICAL CONSIDERATIONS****SECTION 13: DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL.....IN ACCORDANCE WITH MUNICIPAL, PROVINCIAL AND FEDERAL  
REGULATIONS.

**SECTION 14: TRANSPORT INFORMATION**

UN NUMBER.....N.AP.  
PACKING GROUP.....N.AP.  
TDG CLASSIFICATION.....NOT REGULATED

**SECTION 15: REGULATORY INFORMATION**

WHMIS CLASSIFICATION.....D2B  
CPR COMPLIANCE.....THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE  
HAZARD CRITERIA OF THE CPR AND THE MSDS CONTAINS ALL THE  
INFORMATION REQUIRED BY THE CPR.

**SECTION 16: OTHER INFORMATION**

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