

MATERIAL SAFETY DATA SHEET
Manic

Sanitation inc.

66, rue Fraser Rivière-du-Loup, Québec G5R 1C2

tel: (418) 862-6393 fax: (418) 862-1876

PRODUCT INFORMATION

PRODUCT NAME C-13	WHMIS CLASS: D2A E
CHEMICAL FAMILY BASIC OXIDIZING AGENT	

PHYSICAL PROPERTIES

APPEARANCE AND ODOUR	LIQUID	CLEAR GREENISH YELLOW	CHLORINE
BOILING POINT (°C)	N.Av.	EVAPORATION RATE (nBuAc= 1)	N.Av.
VAPOR PRESSURE (mm Hg)	N.Av.	VISCOSITY (cps) 22°C 20rpm spindle #	N.Av.
VAPOR DENSITY (AIR = 1)	N.Av.	FREEZING POINT (°C)	0
SOLUBILITY IN WATER	COMPLETE	pH	14,0
VOLATILE BY VOLUME	75,6	SPECIFIC GRAVITY (WATER = 1)	1,245
ACTIVE MATERIAL	24,4		

HAZARDOUS INGREDIENTS

INGREDIENTS	CAS OR UN number	%	TLV (units)
POTASSIUM HYDROXIDE	CAS 1310-58-3	7-13	2mg/m ³
SODIUM METASILICATE	CAS 6834-92-0	1-5	N.Av.
SODIUM HYPOCHLORITE	CAS 7681-52-9	1-5	N.Av.

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used): N.Av.	
FLAMMABLE LIMITS	LOWER: N.Av. UPPER: N.Av.
EXTINGUISHING MEDIA:	N.Av.
SPECIAL FIRE FIGHTING PROCEDURES:	N.Av.
UNUSUAL FIRE AND EXPLOSIVE HAZARDS:	N.Av.
AUTOIGNITION TEMPERATURE:	N.Av.
DATE: January 31, 2011	phone:(418) 862-6393
	DIRECTOR R&D

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TOXICOLOGICAL PROPERTIES

THRESHOLD LIMIT VALUE: N.Av.

EFFECTS OF OVEREXPOSURE:

SKIN CONTACT: CAN CAUSE SEVERE IRRITATION WITH BLISTERING AND ECZEMA

EYE CONTACT: CAUSES SEVERE IRRITATION OF MUCUOUS MEMBRANCES OF THE EYES.MAY CAUSE SEVERE EYE DAMAGE

INHALATION IRRITATION OF THE NOSE AND THROAT,COUGHING,DIFFICULTY BREATHING; MAY CAUSE PULMONARY EDEMA

INGESTION BURNING IN THE MOUTH AND THROAT,ABDOMINAL CRAMPS,NAUSEA,VOMITING,DIARRHEA,SHOCK, MAY LEAD TO CONVULSIONS, COMA AND DEATH

EMERGENCY AND FIRST AID PROCEDURES:

SKIN CONTACT:FLUSH WITH WATER FOR AT LEAST 15 MINUTES,GET MEDICAL HELP PROMPTLY

EYE CONTACT: HOLD EYE LIDS OPEN AND WASH THOROUGHLY WITH CLEAN WATER FOR AT LEAST 15 MINUTES, GET MEDICAL HELP PROMPTLY

INHALATION REMOVE TO FRESH AIR AND OBTAIN MEDICAL HELP IMMEDIATELY

INGESTION GET MEDICAL HELP IMMEDIATELY.RINSE OUT MOUTH WITH WATER,GIVE LARGE QUANTITY OF WATER TO DRINK.
INDUCE VOMITING AND GIVE MORE WATER TO DRINK

REACTIVITY DATA

STABLE: UNSTABLE

CONDITIONS TO AVOID: TEMPERATURES »40°C ,SUNLIGHT,CONTACT WITH METAL

INCOMPATIBILITY WITH: STRONG ACIDS AND CAUSTIC,AMMONIA,OXIDIZABLE MATERIALS,UREA,NICKEL,COOPER,TIN,IRON,

HAZARDOUS DECOMPOSITION PRODUCTS: CHLORINE BY REACTION WITH ACIDS/OXYGEN BY REACTION WITH METAL

HAZARDOUS POLYMERIZATION: NO

CONDITIONS TO AVOID: N.Av.

SPILL OR LEAK PROCEDURES

PREVENTIVES MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

RINSE WELL WITH WATER

WASTE DISPOSAL METHOD:

FOLLOW FEDERAL,PROVINCIAL AND LOCAL ORDINANCES FOR DISPOSAL OF ALCALI DETERGENT

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: CANISTER-TYPE RESPIRATORS FOR CHLORINE

VENTILATION ADEQUATE TO HAVE NO EVIDENCE OF EYE NOSE OR THROAT IRRITATION

PROTECTIVE GLOVES: RUBBER,P.V.C.

EYE PROTECTION: TIGHT-FITTING CHEMICAL

OTHER PROTECTIVE EQUIPMENT: RUBBER BOOTS & APRON,SAFETY SHOWERS & EYE WASH FOUNTAIN

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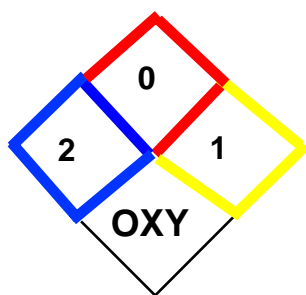
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SPECIAL PRECAUTIONS

STORAGE TEMPERATURE	MIN 1°C	MAX 29°C
TDG: CORROSIVE LIQUID, BASIC, INORGANIC, NOS(POTASSIUM HYDROXIDE) UN 3266 CLASS 8 PQ.GR. II PLACARDS 8 LABELS 8 + WAY-UP		

NFPA



SIMD / HMIS

Santé / Health	2
Inflammabilité / Flammability	0
Réactivité / Reactivity	1
Protection personnelle / Personal protection h	