

C 2135

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CHEMICAL EMERGENCY HOTLINE 1-800-228-5635 Ext. 005

Product Name: **BLEACH - GENERIC**

MATERIAL SAFETY DATA SHEET ESSENTIALLY SIMILAR TO OSHA-20

NE=NOT ESTABLISHED NA=NOT APPLICABLE

SECTION 1 - GENERAL INFORMATION

CHEMICAL FAMILY:	hypochlorite	HAZARD SIGNALS:	
HAZARD CLASSIFICATION:	strong irritant	HEALTH 2	REACTIVITY 1
SHIPPING NAME:	Hypochlorite solution containing not more than 7% available chlorine	FIRE 0	OTHER OXY
	ORM-B, NA1791	(0=insignificant; 1=slight; 2=moderate 3=high; 4=extreme. Describes short term hazards only)	

SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS	CAS #	TLV	OSHA PEL	SECTION 313	% (optional)
Sodium hypochlorite	7681-52-9	1.5 as Cl	1.5 as Cl	no	<7% available Cl

SECTION 3 - PHYSICAL DATA

Boiling point	>212 °F	Vapor pressure	30 mm Hg
Specific gravity	>1	Vapor density	n.a.
Percent volatile	>90	Evaporation rate	like water
Solubility in water	complete		
Appearance and odor	Clear colorless liquid, pungent odor		

SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT: none T.C.C.

Flammable limits-- lower: na

Flammable limits-- upper: na

EXTINGUISHING MEDIA: not combustible, use as appropriate for surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus and full protective clothing. Use water to cool nearby containers.

UNUSUAL FIRE & EXPLOSION HAZARDS: This product may cause a fire if it dries on clothing, wood or other combustibles without rinsing or dilution. Contact with flammable liquids or vapors may cause immediate fire or explosion if heated, or it may result in delayed explosion. Decomposition will release oxygen which will increase the burning rate of flammable vapors.

SECTION 5 - REACTIVITY DATA

STABLE: yes conditions to avoid: excessive heat and contamination of any kind.

MATERIALS TO AVOID: reducing agents, combustibles, nitrogen compounds, and metals such as iron & copper, as well as magnesium, aluminum, tin, and manganese.

HAZARDOUS DECOMPOSITION PRODUCTS: chlorine, hypochlorous acid, hydrogen chloride, oxygen, sodium chlorate, depending on temperature and pH, which may cause pressure buildup in closed non-vented containers.

HAZARDOUS POLYMERIZATION: will not occur.

SECTION 6 - HEALTH HAZARD DATA

Threshold limit value: 1.5 as chlorine.
 Health hazards - Chronic unknown.
 Carcinogenicity: NTP? no IARC Monographs? no OSHA? no
 Medical conditions generally aggravated by exposure: asthma or other lung problems.

EFFECTS OF ACUTE OVEREXPOSURE

EYES vapors will irritate eyes. liquid is corrosive to eyes and may cause serious burns.
SKIN brief exposure may irritate skin. Longer exposure causes irritation, rash, blisters and burns.
INHALATION Vapors and mist severely irritate the nose and mouth. Prolonged exposure will cause irritation of the upper respiratory tract and lungs with cough and difficulty breathing.
INGESTION Liquid is a severe irritant if swallowed and may cause a sudden evolution of oxygen causing a distension of esophagus or stomach. Corrosive to tissues contacted.

EMERGENCY AND FIRST AID PROCEDURES

EYES Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids apart. Remove Contact lenses if applicable. Contact a physician.
SKIN Rinse thoroughly with water. Remove contaminated clothing and wash before reuse. Contact a physician if irritation persists.
INHALATION Remove to fresh air. Seek medical attention if breathing difficulties occur.
INGESTION Rinse mouth with water then drink lots of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Immediately call CHEMICAL EMERGENCY HOTLINE for advice. (phone number at top of this form.)

SECTION 7 - PROTECTIVE EQUIPMENT

RESPIRATOR TYPE: Use appropriate respiratory protection to avoid breathing mists or vapors.
VENTILATION Use with adequate ventilation to avoid breathing concentrated mists or sprays.
EYE PROTECTION safety goggles or face shield. Contact lenses should not be worn while working with this product because they can contribute to the severity of injury from an accidental contact.
PROTECTIVE GLOVES rubber gauntlet type gloves.
OTHER PROTECTIVE EQUIPMENT Eyewash stations and safety showers in the work area. Rubber protective clothing including footwear if contact is likely.

SECTION 8-PRECAUTIONS FOR HANDLING AND USE

HANDLING AND STORING: Store in a cool dry place away from other chemicals and sources of contamination. Keep container closed when not in use. Store only in properly vented containers. Do not block vent in container top. Never add anything else to the container. Wash thoroughly after handling.
OTHER PRECAUTIONS: Empty container will retain product residue. Always observe safety precautions as if they were full.
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Observe all safety precautions. Remove sources of ignition. Contain spill with a non-combustible absorbent dike. Dilute with water and allow product to decompose. Then put into DOT approved waste containers. Keep out of sewers and soil.
WASTE DISPOSAL METHODS: Dispose of waste as allowed by local, state and federal regulations.

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