

**MATERIAL SAFETY DATA SHEET****I. GENERAL INFORMATION**

Distributed by:

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PRODUCT NAME HYPERKUHL SUPERCOOLANT
CHEMICAL FORMULA PROPRIETARY
CHEMICAL FAMILY COOLING WATER TREATMENT
CORROSION INHIBITOR

The above information complies with OSHA's hazard communication standard 29CFR1910.1200.
The standard must be consulted for specific requirements.

II. HAZARDOUS INGREDIENTS

PRINCIPAL HAZARDOUS INGREDIENTS	%	OSHA PEL OR ACGIH TLV	CAS NO.
SODIUM HYDROXIDE	<2	TLV: 2MG/CU METERPER 8HR. TWA. PEL: 2 MG/CU	1310-73-2
SODIUM NITRITE	<2	NO PEL OR TLV EST.	7632-00-0
SODIUM TETRABORATE	<5	TLV: 1 MG/CU METER	1330-43-4
SODIUM MOLYBDATE	<2	OSHA TWA 5MG/CU METER AS MO.	7631-95-0
SODIUM MERCAPTOBENZOTHAZOLE	<1	NO PEL OR TLV EST.	2429-26-4
OCTYLPHENOXYPOLYETHOXYETHANOL	<1	NO PEL OR TLV EST.	9036-19-5

III. PHYSICAL DATA

BOILING POINT:	>220°F	SPECIFIC GRAVITY: (H ₂ O=1)	1.042
MELTING POINT:	N.A.	VAPOR PRESSURE:	N.E.
VAPOR DENSITY:	N.A.	SOLUBILITY IN WATER:	COMPLETE
Ph:	APPROX. 9.8		
APPEARANCE AND ODOR:	BLUE LIQUID, NO DISTINCT ODOR		

IV. FIRE AND EXPLOSION DATA

FLASH POINT: N/A FLAMMABLE LIMITS IN AIR, % VOL. LOWER-N/A UPPER-N/A

AUTO IGNITION TEMPERATURE NE EXTINGUISHER MEDIA AS USED ON SURROUNDING FIRE

SPECIAL FIRE-FIGHTING PROCEDURES: WEAR SELF-CONTAINED BREATHING APPARATUS WITH FULL FACE
PIECE APPROVED BY NIOSH. USE WATER SPRAY TO COOL EXPOSED CONTAINERS OF POTENTIAL OXIDIZER,
OR DRENCH.

UNUSUAL FIRE AND EXPLOSION HAZARDS: HYPERKUHL CONTAINS AN OXIDIZING AGENT. IT CAN
SUPPLY OXYGEN TO STIMULATE OR ACCELERATE THE COMBUSTION OF ORGANIC OR OTHER COMBUSTIBLE
MATERIALS.

V. PHYSICAL HAZARDS

STABILITY:	STABLE	CONDITIONS TO AVOID: EXTREME HEAT
MATERIALS TO AVOID:		STRONG ACIDIC SOLUTIONS, AMMONIUM COMPOUNDS.
HAZARDOUS DECOMPOSITION PRODUCTS:		GASEOUS NITROGEN OXIDES.
HAZARDOUS POLYMERIZATION:		WILL NOT OCCUR

VI. HEALTH HAZARDS

ACUTE:	IRRITANT	CHRONIC:	NONE
SIGNS AND SYMPTOMS OF EXPOSURE: CONTINUOUS AND REPEATED CONTACT WITH HYPERKUHL MAY CAUSE LOCAL IRRITATION ON SKIN AND EYES.			

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: NONE CURRENTLY KNOWN.

CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN I.A.R.C.: NO
NATIONAL TOXICOLOGY PROGRAM: NO

514742

VII. EMERGENCY AND FIRST AID PROCEDURES

EYES: IMMEDIATELY FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES. IF IRRITATION OCCURS, GET MEDICAL ATTENTION.
SKIN: FLUSH WITH SOAP AND WATER. IF IRRITATION OCCURS, GET MEDICAL ATTENTION.
INHALATION: IF AFFECTED, REMOVE TO FRESH AIR.
INGESTION: IF PERSON IS CONSCIOUS, GIVE WATER TO DILUTE. DO NOT INDUCE VOMITING. SEEK MEDICAL ATTENTION IMMEDIATELY.

VIII. ENVIRONMENTAL DATA: SPILL AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: SMALL SPILL: FLUSH TO WASTE WITH LARGE QUANTITIES OF WATER. LARGE SPILL: COMPLETELY CONTAIN ALL SPILLED MATERIAL. ABSORB ONTO INERT COMPOUND AND RECLAIM TO A CLOSED DOT APPROVED CONTAINER. RESIDUE MAY BE FLUSHED TO WASTE WITH LARGE QUANTITIES OF WATER. SEE SECTION X FOR MORE REGULATORY INFO.

WASTE DISPOSAL METHODS: DISPOSE OF CONTAMINATED PRODUCT VIA AN APPROVED CHEMICAL WASTE DISPOSAL FIRM AND IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.

IX. CONTROL MEASURES

RESPIRATORY PROTECTION: NIOSH-APPROVED RESPIRATOR FOR EXPOSURES ABOVE OSHA PEL.
EYE AND FACE: SPLASH PROOF GLASSES IF LIQUID CONTACT IS POSSIBLE.
HANDS, ARMS AND BODY: IMPERVIOUS CLOTHING.
OTHER: EYE WASH AND QUICK DRENCH SHOWER IS RECOMMENDED.

X. REGULATORY INFORMATION

DOT SHIPPING NAME: COMPOUND, INDUSTRIAL PROCESS, WATER TREATING, LIQUID
HAZARD CLASSIFICATION: NA
DOT LABEL REQUIRED: NR UN/NA NUMBER: NA

SARA TITLE III REPORTING: SECTION 311 X 312 X 313 X
SARA 313 REPORTABLE PRODUCT: SODIUM NITRITE
SARA TPQ: NA
CERCLA REPORTABLE QUANTITY OF PRODUCT: 340 GALLONS DUE TO SODIUM NITRITE CONTENT.

HMIS: HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 1

NE= NOT ESTABLISHED
NA = NOT APPLICABLE
NR = NOT REQUIRED
< = LESS THAN, > = GREATER THAN

DATE PREPARED: APRIL, 1999
PREPARED BY: JOHN KRENSON

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