



# MATERIAL SAFETY DATA SHEET

Date: August 21, 2001

OSHA MEETS  
29 CFR 1910.1200  
STANDARDS

**NFPA HAZARD RATINGS (HMIS)**  
HEALTH 3 0=INSIGNIFICANT 3=HIGH  
FLAMMABILITY 1 1=SLIGHT 4=EXTREME  
REACTIVITY 0 2=MODERATE

**TRANSPORTATION INFORMATION**  
PROPER SHIPPING NAME: Corrosive liquids, n.o.s.  
(Diethylene triamine)  
HAZARD CLASS/DIVISION: 8 (Corrosive)  
REF: 49 CFR 173.136  
IDENTIFICATION NUMBER: UN 1760

IDENTITY (AS USED ON LABEL AND LIST)

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## EPOXY HARDENER

### SECTION I

MANUFACTURER'S NAME

EMERGENCY TELEPHONE NUMBER

Color-Crown Corporation  
928 E. Sligh Ave.  
Seffner, FL 33584

Chemtrec (800) 424-9300

TELEPHONE NUMBER FOR INFORMATION

(813) 655-4880

Date Prepared: August 21, 2001

### SECTION II HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

HAZARDOUS COMPONENTS (SPECIFIC CHEMICAL ID COMMON NAME(S))	CAS#	%	ACGIH TWA	ACGIH STEL	SARA TITLE III	RQ
		OPTIONAL	PPM	MG/M3	MG/M3	LBS
Dibutyl phthalate (a,b,c)	84-74-2	<5		5		10
Diethylene triamine	111-40-0		1	4		
Nonylphenol	25154-52-3					
N-Aminoethylpiperazine	111-41-1					
Phenol (a,b,c,d,e)	108-95-2	<5	5	19	YES	1000
Tetraethylene pentamine	112-57-2					

(a) A "YES" in the SARA TITLE III column indicates a toxic chemical subject to annual reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

(b) Indicates that the Resource Conservation and Recovery Act (RCRA) has determined the waste for this chemical is listed as hazardous and must be handled according to regulations in 40 CFR 260-281.

(c) Indicates the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) has notification requirements for releases or spills to the environment of the Reportable Quantity (RQ) or greater amounts, according to 40 CFR 302.

(d) Indicates an Extremely Hazardous Substance, if your facility has a designated amount of this substance, Threshold Planning Quantity (TPQ) in inventory, the regulations of 40 CFR 355 and 370 apply, including submission of Tier I/Tier II forms every 3/1.

(e) Indicates and employee's skin exposure shall be prevented or reduced to the extent necessary in the circumstances through the use of gloves, coveralls, goggles, or other appropriate equipment.

### SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

BOILING POINT 212° F	SPECIFIC GRAVITY (WATER=1) 0.9842
VAPOR PRESSURE (MM HG) 17mm@20°C	MELTING POINT n/a
VAPOR DENSITY (AIR=1) >1	EVAPORATION RATE (WATER=1) <1
SOLUBILITY IN WATER Approx 20%	% VOLATILE (BY WT) <10
APPEARANCE AND ODOR Dark amber liquid, slight ammoniacal odor	

The information contained herein is believed to be accurate but is not warranted to be so. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed.

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## EPOXY HARDENER

### SECTION IV – FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED)

FLAMMABLE LIMITS LEL: n/a UEL: n/a

>200°F

EXTINGUISHING MEDIA

CO<sub>2</sub>; water; water fog; dry chemical; chemical foam

SPECIAL FIRE FIGHTING PROCEDURES

Firefighters must wear full facepiece self-contained breathing apparatus in positive pressure mode. Do not use solid stream of water, since stream will scatter and spread fire. Fine water spray can be used to keep fire-exposed containers cool.

UNUSUAL FIRE AND EXPLOSION HAZARES

Closed containers can explode due to buildup of pressure when exposed to extreme heat; do not use direct stream of water on pool fires as product may reignite on water surface. *Caution*-Material will support combustion!

### SECTION V – REACTIVITY DATA

STABILITY

CONDITIONS TO AVOID

UNSTABLE: STABLE: XXX

Extreme temperatures; keep away from all ignition sources

INCAPABILITY (MATERIALS TO AVOID):

Strong acids, oxidizing agents

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

Thermal decomposition may yield CO;CO<sub>2</sub>

HAZARDOUS POLYMERIZATION

CONDITIONS TO AVOID

MAY OCCUR: WILL NOT OCCUR:XXX

NONE

### SECTION VII – HEALTH HAZARD DATA

ROUTES OF ENTRY-SIGNS AND SYMPTOMS OF EXPOSURE

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Corrosive and irritating to upper respiratory tract and mucous membranes.

Remove to fresh air; wash mouth and nasal pages with water repeatedly; if breathing difficulties persist seek medical attention.

SKIN: Corrosive and irritating; chemical burns may result from Contact; severe irritant.

Wash contacted area with soap and water; NO NOT attempt to neutralize with chemical agents; seek immediate medical attention.

EYES: CORROSIVE; Contact with eyes is painful and irritating and will cause chemical burns. Brief contact causes severe eye damage and prolonged contact causes permanent eye injury which may be followed by blindness.

Immediately flush eyes for 15 minutes in clear running water while holding eyelids open; get medical attention immediately.

INGESTION: Corrosive and irritating to digestive tract; may cause gastric distress, stomach pains and vomiting.

Drink large quantities of water or milk; do not give anything by mouth to unconscious person; DO NOT induce vomiting; seek medical attention immediately.

HEALTH HAZARDS (ACUTE AND CHRONIC): Corrosive to skin and eyes; prolonged inhalation of this product may cause ulcers to the upper respiratory tract; repeated or prolonged exposure may cause chronic phenol poisoning resulting in vomiting, diarrhea, lack of appetite, difficulty in swallowing, headache, fainting, dizziness, dark urine, mental disturbance, skin rash, liver or kidney damage.

CARCINOGENICITY: NTP?No IARC MONOGRAPHS? No OSHA REGULATED? No

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Preexisting skin, eye, or respiratory disorders may become aggravated through prolonged exposure.

### SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: *CORROSIVE*. Evacuate and ventilate area; confine and absorb into absorbent; place material into approved containers for disposal; for spills in excess of allowable limits (RQ) notify the National Response Center (800) 424-8802; refer to CERCLA 40 CFR 302 and SARA Title III, Section 313 40 CFR 372 for detailed instruction concerning reporting requirements.

WASTE DISPOSAL METHOD: dispose of in accordance with Local, State, and Federal Regulations. Refer to RCRA regulations 40 CFR 260-281 Part 261.20 for waste disposal instructions for corrosive materials; do not flush to sanitary sewer or waterway.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep container closed when not in use; protect containers from abuse; protect from extreme temperatures.

OTHER PRECAUTIONS: Keep this and all other chemicals out of reach of children; minimize body contact with this product as well as all chemicals in general. Avoid inhaling concentrated fumes or vapors.

### SECTION VIII – CONTROL MEASURES

RESPIRATORY PROTECTION (SPECIFY TYPE): None required while threshold limits (Section II) are kept below maximum allowable concentrations; if TWA exceeds limits, NIOSH approved respirator must be worn.

VENTILATION LOCAL EXHAUST: Required

SPECIAL: To maintain minimum TWA and STEL levels.

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MECHANICAL: Yes  
PROTECTIVE GLOVES: Neoprene or rubber

EYE PROTECTION: Goggles with side shields; safety eyebath nearby.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Coveralls, apron, or other equipment should be worn to minimize skin contact.

WORK/HYGIENIC PRACTICES: Practice safe workplace habits minimize body contact with this, as well as all chemicals in general.

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Color Crown Corporation • 928 Sligh Ave. • Seffner, FL 33584 • (800) 282-1599 • [www.stardek.com](http://www.stardek.com)

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