

UNITED RESIN CORP -- METAL BOND HARDENER 4X-93 -- 8040-00-753-4800

===== Product Identification =====

Product ID:METAL BOND HARDENER 4X-93

MSDS Date:10/02/1992

FSC:8040

NIIN:00-753-4800

Kit Part:Y

MSDS Number: BQYGW

=== Responsible Party ===

Company Name:UNITED RESIN CORP

Address:4359 NORMANDY CT

City:ROYAL OAK

State:MI

ZIP:48073

Country:US

Info Phone Num:800-521-4757

Emergency Phone Num:313-549-8200

CAGE:1FD35

=== Contractor Identification ===

Company Name:UN

ITED RESIN CORPORATION

Address:4359 NORMANDY COURT

City:ROYAL OAK

State:MI

ZIP:48073

Country:US

Phone:248-549-8200/

CAGE:1FD35

===== Composition/Information on Ingredients =====

Ingred Name:POLYAMIDE RESIN

CAS:68410-23-1

Other REC Limits:NONE SPECIFIED

Ingred Name:TERTIARY AMINE DERIVATIVE OF PHENOL

CAS:90-72-2

RTECS #:SN3500000

Other REC Limits:NONE SPECIFIED

Ingred Name:SYNTHETIC GRAPHITE

CAS:7782-42-5

RTECS #:MD9659600

Other REC Limits:NONE SPECIFIED

OSHA PEL:15 MPPCF RD

UST
ACGIH TLV:2 MG/M3 RDUST; 9293

Ingred Name:COPPER (SARA III)
CAS:7440-50-8
RTECS #:GL5325000
Other REC Limits:NONE SPECIFIED
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

===== Hazards Identification =====

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:SKIN: SEVERE IRRITATION OR CHEMICAL
BURNS. EYE: SEVERE EYE IRRITATION, SWELLING, CHEMICAL BURNS.
INHALATION: IRRITATING TO UPPER
RESPIRATORY TRACT. INGESTION:
GASTROINTESTINAL IRRITATION OR ULCERATION . MAY CAUSE DAMAGE TO
MUCOUS MEMBRANES IF SWALLOWED.
Explanation of Carcinogenicity:THIS MATERIAL IS NEITHER CARCINOGENIC OR
POTENTIALLY CARCINOGENIC.

===== First Aid Measures =====

First Aid:INHALATION: REMOVE VICTIM TO FRESH AIR. EYES: FLUSH EYES WITH
GENEROUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. GET MED
ATTENTION IF NECESSARY. SKIN: IMMEDIATELY WASH SKIN WI
TH SOAP &
WATER. WASH CON TAMINATED CLOTHING BEFORE REUSE. INGESTION: DONT
INDUCE VOMITING. GIVE LARGE AMOUNTS OF WATER OR MILK IF AVAILABLE.
CALL DR. TREATMENT BASED ON JUDGEMENT OF DR IN RESPONSE TO
REACTIONS OF VICTIM.

===== Fire Fighting Measures =====

Flash Point Method:COC
Flash Point:400F,204C
Extinguishing Media:WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL
Fire Fighting Procedures:DONT ENTER CONFINED FIRE SPACE W/OUT FULL
PROTEC

T GEAR INCLUDING POS PRESSURE, SELF-CONTAINED, NIOSH BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS W/WATER. Unusual Fire/Explosion Hazard:CONTAINER AREAS EXPOSED TO INTENSE HEAT OR FLAME SHOULD BE COOLED WITH WATER TO PREVENT PRESSURE BUILD-UP AND/OR WEAKENING OF CONTAINER STRUCTURE.

===== Accidental Release Measures =====

Spill Release Procedures:USE CAUTIOUS JUDGEMENT WHEN CLEANING SPILLS. SMALL SPILLS MAY BE COLLECTED WITH ABSORBENT MATERIAL, SUCH AS CLAY OR SAND. LARGE SPILLS SHOULD BE DIKED AND CONTAINED WITH ABSORBENT MATERIALS. FLUSH ARE A WITH WATER SPRAY TO REMOVE RESIDUE.

===== Handling and Storage =====

Handling and Storage Precautions:STORE AT AMBIENT TEMPERATURES IN WELL VENTILATED AREA. AVOID SPARKS, OPEN FLAMES AND EXTREME HEAT. STORE SEPARATELY FROM AMINE CURING AGENTS.

Other Precautions:PROTECT CONTAINER FROM PHYSICAL DAMAGE. CONTAINERS, EVEN EMPTY CAN CONTAIN HAZARDOUS RESIDUE. HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL PRACTICES. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. WASH CONTAMINATED CLOTHING BEFORE REUSE.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:WEAR NIOSH APPROVED RESPIRATORY PROTECTION WHERE EXPOSURE LIMITS ARE EXCEEDED OR IN THE ABSENCE OF PROPER ENVIRONMENTAL CONTROL.

Ventilation:USE ONLY WITH ADEQUATE VENTILATION. LOCAL EXHAUST IS RECOMMENDED. MECHANICAL EXHAUST CAN BE USED AS A BACK-UP SYSTEM.

Protective Gloves:CHEMICAL RESISTANT GLOVES (RUBBER/PVA)

Eye Protection:SAFETY GLASSES, GOGGLES W/SIDE SHIELDS

Other Protective Equipment:CHEMICAL RESISTANT CLOTHING AS REQUIRED TO MINIMIZE SKIN CONTACT.

Work Hygienic Practices:WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING, APPLYING COSMETICS, OR USING TOILET FACILITIES.

Supplemental Safety and Health

KEY1:C1. THIS ENTRY DESCRIBES PART 2 OF A TWO PART KIT. SEE THIS SAME NSN, P/N IND A, FOR P

ART 1 DATA.

===== Physical/Chemical Properties =====

HCC:B2

Vapor Pres:NEGLIGIBLE

Vapor Density:>1

Spec Gravity:1.09 (WATER=1)

Solubility in Water:MODERATE

Appearance and Odor:AMBER LIQUID WITH AMMONIACAL ODOR

Percent Volatiles by Volume:0

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

NONE KNOWN

Stability Condition to Avoid:AVOID HIGH TEMPERATURES, OPEN FLAME AND
UNSCHEDULED CONTACT WITH RESIN SY
STEMS.

Hazardous Decomposition Products:COMBUSTION BY-PRODUCTS MAY INCLUDE
OXIDE OF NITROGEN (NOX) AND CARBON WHEN BURNING.

Conditions to Avoid Polymerization:AVOID MIXING RESIN AND HARDENER IN
UNCONTROLLABLE QUANTITIES.

===== Disposal Considerations =====

Waste Disposal Methods:DISPOSE OF FLUSH LEGALLY. DISPOSE IN ACCORDANCE
WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

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