

# Material Safety Data Sheet



COMBAT EXTRA

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## SECTION I - IDENTIFICATION

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MANUFACTURER'S NAME .....Haviland Consumer Products Inc.  
MANUFACTURER'S ADDRESS .....421 Ann St., NW, Grand Rapids, MI 49504  
PHONE NUMBER..... (616) 361-6691  
EMERGENCY PHONE NUMBER .....CHEMTREC (800) 424-9300  
EFFECTIVE DATE.....7/15/04  
TRADE NAME.....**COMBAT EXTRA**  
CHEMICAL FAMILY.....Poly Quaternary

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## SECTION II - HAZARDOUS INGREDIENTS

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HAZARDOUS INGREDIENTS	OSHA PEL	TLV (Units)	CAS NUMBER
Poly [oxyethylene (dimethyliminio) ethylene- (dimethyliminio) ethylene dichloride]	Not Established	Not Established	31075-24-8
Copper Triethanolamine Complex:	Not Established	Not Established	None
Triethanolamine	Not Established	Not Established	102-71-6
Copper as Metal	Not Established	Not Established	7440-50-8

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## SECTION III - PHYSICAL DATA

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BOILING POINT ..... Above 212oF  
FREEZING POINT ..... No Information Available  
VAPOUR PRESSURE ..... 14.7 @ 20oC  
VAPOUR DENSITY (air=1) ..... Vapor is Water  
SOLUBILITY IN H2O ..... Miscible  
ODOUR AND APPEARANCE ..... Clear Blue Liquid; Slight Odor  
SPECIFIC GRAVITY ..... 1.2  
pH..... 6-7

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## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

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FLASHPOINT AND METHOD OF DETERMINATION .....Above 212oF  
LOWER EXPLOSIVE LIMIT (% by Volume) ..... Not Applicable  
UPPER EXPLOSIVE LIMIT (% by Volume) ..... Not Applicable  
MEANS OF EXTINCTION.....Water fog, carbon dioxide, and dry chemical.  
SPECIAL FIRE FIGHTING PROCEDURES.....None Currently Known  
UNUSUAL FIRE HAZARD.....None Currently Known

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## SECTION V - HEALTH HAZARD DATA

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CARCINOGENICITY, REPRODUCTIVE EFFECTS ..... None  
NTP?..... No  
IARC MONOGRAPHS?..... No  
OVER EXPOSURE EFFECTS ..... Irritation to eyes.  
PRIMARY ROUTE (S) OF ENTRY ..... Eye Contact  
SPECIFIC FIRST AID PROCEDURES ..... In case of contact: Immediately wash eyes and skin with plenty of water.  
If inhaled: Remove to fresh air. If swallowed: Get medical attention.  
EXPOSURE AGGRAVATED MEDICAL ..... None Currently Known  
CONDITIONS

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## SECTION VI - REACTIVITY DATA

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CHEMICAL STABILITY ..... Stable  
CONDITIONS TO AVOID ..... Not Applicable  
INCOMPATIBLE MATERIALS ..... None Currently Known  
HAZARDOUS DECOMPOSITION PRODUCTS ..... None Currently Known  
HAZARDOUS POLYMERIZATION ..... Will Not Occur  
POLYMERIZATION AVOID ..... Not Applicable

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## SECTION VII - SPILL OR LEAK PROCEDURE

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LEAK AND SPILL PROCEDURES ..... Absorb with sawdust or sand and bury in approved landfill.  
WASTE DISPOSAL ..... Do not reuse empty drum. Return to drum reconditioner or destroy by perforating or crushing; dispose of according to federal, state and local regulations.

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## SECTION VIII - SPECIAL PROTECTION

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RESPIRATORY PROTECTION ..... None Needed for Normal Use  
VENTILATION ..... Not Required for Normal Use  
PROTECTIVE GLOVES ..... Rubber or other impervious materials.  
EYE PROTECTION ..... Chemical splash proof goggles.  
OTHER PROTECTIVE EQUIPMENT ..... A safety shower and eye bath should be available. For operations where spills or splashing may occur, use an impervious body covering and boots.  
HANDLING PROCEDURES AND EQUIPMENT ..... Keep container closed when not in use.

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## SECTION IX - SPECIAL PRECAUTIONS

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HAZARD CLASS ..... None  
DOT SHIPPING NAME ..... None  
UN NUMBER ..... None  
REPORTABLE QUANTITY (RQ) ..... Not Listed

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REFERENCES

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