

MATERIAL SAFETY 3M
 DATA SHEET 3M Center
 St. Paul, Minnesota
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DIVISION: COMMERCIAL GRAPHICS
 TRADE NAME:

SCOTCHCAL BRAND OVERPRINT CLEAR 1920DR FOR CONTROLTAC 190
 ID NUMBER/U.P.C. :
 75-3467-6296-8 00-51128-36968-5 75-3467-6427-9 00-51128-40091-3
 75-3467-7805-5 00-51128-41508-5 DR-5219-0047-9 - - -
 DR-5219-0048-7 - - -
 ISSUED: December 13, 2001
 SUPERSEDES: March 12, 2001
 DOCUMENT: 06-1797-7

1. INGREDIENT	C.A.S. NO.	PERCENT	
CYCLOHEXANONE.....	108-94-1	15	- 25
ETHYL ACRYLATE-METHYL METHACRYLATE POLYMER.....	9010-88-2	15	- 25
ETHYL 3-ETHOXYPROPIONATE.....	763-69-9	10	- 20
ADIPIC ACID,POLYMERS WITH DIOL/MONOHYDRIC OH (NJTSRN 121307- 5038P).....	TradeSecret	10	- 20
HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM).....	64742-94-5	10	- 20
2-BUTOXYETHYL ACETATE.....	112-07-2	5	- 10
VINYL ACETATE-VINYL ALCOHOL-VINYL CHLORIDE POLYMER.....	25086-48-0	1	- 5
2,4-DIHYDROXYBENZOPHENONE.....	131-56-6	0.5	- 1.5
METHYL METHACRYLATE.....	80-62-6	0.1	- 1.0
BIS(1,2,2,6,6-PENTAMETHYL-4- PIPERIDINYL) SEBACATE.....	41556-26-7	0.1	- 1.0

This product contains the following toxic chemical or chemicals subject to
 the reporting requirements of Section 313 of Title III of the Emergency
 Planning and Community Right-To-Know Act of 1986 and 40 CFR Part 372:

2-BUTOXYETHYL ACETATE
 METHYL METHACRYLATE

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

2. PHYSICAL DATA

BOILING POINT:..... > 313 F
VAPOR PRESSURE:..... < 5.2 mmHg
VAPOR DENSITY:..... > 3.4 Air=1
EVAPORATION RATE:..... < .23 BuOAc=1
SOLUBILITY IN WATER:..... moderate
SPECIFIC GRAVITY:..... ca. 1.013 Water=1 ASTM
PERCENT VOLATILE:..... 50 - 60 %
pH:..... N/A
VISCOSITY:..... 3500 - 4500 centipoise ASTM
MELTING POINT:..... N/D

APPEARANCE AND ODOR:
Liquid, solvent odor

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... 117 F TCC
FLAMMABLE LIMITS - LEL:..... ca. 0.5 %
FLAMMABLE LIMITS - UEL:..... ca. 8.6 %
AUTOIGNITION TEMPERATURE:..... N/D

EXTINGUISHING MEDIA:
Water spray, Carbon dioxide, Dry chemical, Foam

SPECIAL FIRE FIGHTING PROCEDURES:
Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head. Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
Not determined.

NFPA HAZARD CODES: HEALTH: 2 FIRE: 2 REACTIVITY: 0
UNUSUAL REACTION HAZARD: none

OSHA FIRE HAZARD CLASS: Class II Combustible Liquid

4. REACTIVITY DATA

STABILITY: Stable

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4. REACTIVITY DATA (continued)

INCOMPATIBILITY - MATERIALS/CONDITIONS TO AVOID:

Strong Oxidizing Agents.

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon Monoxide and Carbon Dioxide, Hydrogen Chloride.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:

Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Ventilate area. Extinguish all ignition sources. Contain spill. Cover with inorganic absorbent material. Collect spilled material. Clean up residue. Place in a U.S. DOT-approved container.

RECOMMENDED DISPOSAL:

Incinerate in a permitted hazardous waste incinerator. Combustion products will include HCl. Dispose of waste product in a facility permitted to accept chemical waste. Reclaim if feasible.

ENVIRONMENTAL DATA:

Not determined.

REGULATORY INFORMATION:

Volatile Organic Compounds: ca. 507 gms/liter.
VOC Less H2O & Exempt Solvents: ca. 507 gms/liter.

Since regulations vary, consult applicable regulations or authorities before disposal. U.S. EPA Hazardous Waste Number = D001 (Ignitable)

EPCRA HAZARD CLASS:

FIRE HAZARD: Yes PRESSURE: No REACTIVITY: No ACUTE: Yes CHRONIC: Yes

6. SUGGESTED FIRST AID

EYE CONTACT:

Immediately flush eyes with large amounts of water. Get immediate medical attention.

SKIN CONTACT:

Flush skin with large amounts of water. If irritation persists, get medical attention.

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6. SUGGESTED FIRST AID (continued)

INHALATION:

Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.

IF SWALLOWED:

If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

7. PRECAUTIONARY INFORMATION

EYE PROTECTION:

Avoid eye contact. Wear unvented goggles during operations in which exposure is likely.

SKIN PROTECTION:

Wear appropriate gloves when handling this material. A pair of gloves made from the following material(s) are recommended: butyl rubber, nitrile rubber. Use one or more of the following personal protection items as necessary to prevent skin contact: apron, butyl rubber.

RECOMMENDED VENTILATION:

Use with appropriate local exhaust ventilation. If exhaust ventilation is not adequate, use appropriate respiratory protection.

RESPIRATORY PROTECTION:

Avoid prolonged breathing of vapors. Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: half-mask organic vapor respirator, full-face organic vapor respirator.

PREVENTION OF ACCIDENTAL INGESTION:

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

RECOMMENDED STORAGE:

Store away from heat. Keep container dry. Keep container closed when not in use. Keep container in well-ventilated area.

FIRE AND EXPLOSION AVOIDANCE:

Keep container tightly closed. Keep away from heat, sparks, open flame, and other sources of ignition. Prevent all sources of ignition. Ground containers securely when transferring contents. Wear low static or properly grounded shoes. Combustible liquid and vapor. No smoking while handling this material. Explosive when mixed with oxidizing substance.

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 7. PRECAUTIONARY INFORMATION (continued)

EXPOSURE LIMITS

INGREDIENT	VALUE	UNIT	TYPE	AUTH	SKIN*
CYCLOHEXANONE.....	25	PPM	TWA	ACGIH	Y
CYCLOHEXANONE.....	25	PPM	TWA	OSHAV	Y
	OSHA VACATED PEL				
CYCLOHEXANONE.....	50	PPM	TWA	OSHA	
ETHYL ACRYLATE-METHYL METHACRYLATE POLYMER.....	NONE	NONE	NONE	NONE	
ETHYL 3-ETHOXYPROPIONATE.....	50	PPM	TWA	CMRG	
ETHYL 3-ETHOXYPROPIONATE.....	100	PPM	STEL	CMRG	
ADIPIC ACID,POLYMERS WITH DIOL/MONOHYDRIC OH (NJTSRN 121307- 5038P).....	NONE	NONE	NONE	NONE	
HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM).....	17	PPM	TWA	CMRG	
2-BUTOXYETHYL ACETATE.....	25	PPM	TWA	CMRG	Y
VINYL ACETATE-VINYL ALCOHOL-VINYL CHLORIDE POLYMER.....	NONE	NONE	NONE	NONE	
2,4-DIHYDROXYBENZOPHENONE.....	NONE	NONE	NONE	NONE	
METHYL METHACRYLATE.....	100	PPM	TWA	OSHA	
METHYL METHACRYLATE.....	50	PPM	TWA	ACGIH	
	SENSITIZER				
METHYL METHACRYLATE.....	100	PPM	STEL	ACGIH	
	SENSITIZER				
BIS(1,2,2,6,6-PENTAMETHYL-4- PIPERIDINYL) SEBACATE.....	1	MG/M3	TWA	CMRG	

* SKIN NOTATION: Listed substances indicated with 'Y' under SKIN refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption.

SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists
- CMRG: Chemical Manufacturer Recommended Exposure Guidelines
- OSHA: Occupational Safety and Health Administration
- OSHAV: Occupational Safety and Health Administration Vacated PEL.
 Vacated Permissible Exposure Limits (PEL) are enforced as the OSHA PEL in some states. Check with your local regulatory authority.
- NONE: None Established

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8. HEALTH HAZARD DATA

EYE CONTACT:

Moderate Eye Irritation: signs/symptoms can include redness, swelling, pain, tearing, and hazy vision.

SKIN CONTACT:

Moderate Skin Irritation (after prolonged or repeated contact): signs/symptoms can include redness, swelling, itching, and dryness.

May be absorbed through the skin and produce effects similiar to those caused by inhalation and/or ingestion.

INHALATION:

Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness.

Irritation (upper respiratory): signs/symptoms can include soreness of the nose and throat, coughing and sneezing.

Prolonged or repeated overexposure, above recommended guidelines, may cause:

Kidney Effects: signs/symptoms can include reduced urine volume, blood in urine and back pain.

Liver Effects: signs/symptoms can include yellow skin(jaundice) and tenderness of upper abdomen.

WHILE THE FOLLOWING EFFECTS ARE ASSOCIATED WITH ONE OR MORE OF THE INDIVIDUAL INGREDIENTS IN THIS PRODUCT AND ARE REQUIRED TO BE INCLUDED ON THE MSDS BY THE U.S. OSHA HAZARD COMMUNICATION STANDARD, THEY ARE NOT EXPECTED EFFECTS DURING FORESEEABLE USE OF THIS PRODUCT.

Methemoglobinemia: signs/symptoms can include blue skin color, and difficulty breathing. Coma and death may occur in cases of severe overexposure.

Cataract Formation: signs/symptoms include impaired vision.

IF SWALLOWED:

Ingestion is not a likely route of exposure to this product.

Irritation of Gastrointestinal Tissues: signs/symptoms can include pain, vomiting, abdominal tenderness, nausea, blood in vomitus, and blood in feces.

Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, muscular weakness, incoordination, slowed reaction time, fatigue, blurred vision, slurred speech, giddiness, tremors and convulsions.

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

8. HEALTH HAZARD DATA (continued)

WHILE THE FOLLOWING EFFECTS ARE ASSOCIATED WITH ONE OR MORE OF THE INDIVIDUAL INGREDIENTS IN THIS PRODUCT AND ARE REQUIRED TO BE INCLUDED ON THE MSDS BY THE U.S. OSHA HAZARD COMMUNICATION STANDARD, THEY ARE NOT EXPECTED EFFECTS DURING FORESEEABLE USE OF THIS PRODUCT.

Blood disorders: signs/symptoms can include prolonged weakness and fatigue.

Methemoglobinemia: signs/symptoms can include blue skin color, and difficulty breathing. Coma and death may occur in cases of severe overexposure.

Cataract Formation: signs/symptoms include impaired vision.

SECTION CHANGE DATES

INGREDIENTS	SECTION CHANGED SINCE March 12, 2001	ISSUE
PRECAUTIONARY INFO.	SECTION CHANGED SINCE March 12, 2001	ISSUE

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