

MATERIAL SAFETY
DATA SHEET

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DIVISION: ADHESIVES DIVISION

TRADE NAME:

3M 1606 Cable Cleaner and Degreaser (obsolete)

ID NUMBER/U.P.C.: 62-4622-2925-3 00-21200-21309-0 62-4622-4725-5 - - -

ISSUED: APRIL 17, 1998 (INACTIVE)

SUPERSEDES: FEBRUARY 11, 1997

DOCUMENT: 10-9113-1

1. INGREDIENT	C.A.S. NO.	PERCENT
1-1-1-TRICHLOROETHANE	71-55-6	40.0 - 50.0
PERCHLOROETHYLENE	127-18-4	40.0 - 50.0
CARBON DIOXIDE (PROPELLANT)	124-38-9	1.0 - 10.0
1,4-DIOXANE	123-91-1	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:

1-1-1-TRICHLOROETHANE
PERCHLOROETHYLENE
1,4-DIOXANE

2. PHYSICAL DATA

BOILING POINT:..... Compressed gas
VAPOR PRESSURE:..... Compressed gas
VAPOR DENSITY:..... ca. 5.00 Air = 1
EVAPORATION RATE:..... < 5.00 Ether = 1
SOLUBILITY IN WATER:..... Very slight
SP. GRAVITY:..... N/A
PERCENT VOLATILE:..... 100.00 % by wt
pH:..... N/D
VISCOSITY:..... N/A
MELTING POINT..... N/D
APPEARANCE AND ODOR: Aerosol, colorless, sweet odor

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... Non-Flam.
FLAMMABLE LIMITS - LEL:..... 8.00 % by vol
FLAMMABLE LIMITS - UEL:..... 10.50 % by vol
AUTOIGNITION TEMPERATURE: ... N/D
EXTINGUISHING MEDIA:
Water spray, Carbon dioxide, Dry chemical, Foam

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

MATERIAL SAFETY
DATA SHEET**3M**MSDS: 3M 1606 Cable Cleaner and Degreaser (obsolete)
APRIL 17, 1998

PAGE: 2 of 7

3. FIRE AND EXPLOSION HAZARD DATA (continued)**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:

Closed containers exposed to heat from fire may build pressure and explode. Vapors may travel long distances along the ground or floor to an ignition source and flash back.

NFPA HAZARD CODES: HEALTH: 3 FIRE: 1 REACTIVITY: 1**UNUSUAL REACTION HAZARD:** none**4. REACTIVITY DATA****STABILITY:** Stable**INCOMPATIBILITY - MATERIALS TO AVOID:**

Heat.

HAZARDOUS POLYMERIZATION: Will Not Occur**HAZARDOUS DECOMPOSITION PRODUCTS:**

Carbon Monoxide and Carbon Dioxide, Hydrogen Chloride, Phosgene, Chlorine.

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. Cover with absorbent material. Collect spilled material. Place in a U.S. DOT-approved container.

RECOMMENDED DISPOSAL:

Incinerate in a permitted hazardous waste incinerator in the presence of a combustible material. Facility must be capable of handling aerosol cans. Combustion products will include HCl. Dispose of empty cans in a sanitary landfill. Dispose of completely absorbed waste product in a facility permitted to accept chemical wastes.

ENVIRONMENTAL DATA:

1,1,1-Trichloroethane (CAS #71-55-6) is listed as a priority pollutant by US EPA Clean Water Act, Section 307.

REGULATORY INFORMATION:

Volatile Organic Compounds: 609 gms/liter South Coast Air Quality Mgmt Dist Method Rule 443.1, calculated.
VOC Less H2O & Exempt Solvents: 1479 gms/liter South Coast Air Quality Mgmt Dist Method Rule 443.1, calculated.

Since regulations vary, consult applicable regulations or authorities

MATERIAL SAFETY
DATA SHEET**3M**MSDS: 3M 1606 Cable Cleaner and Degreaser (obsolete)
APRIL 17, 1998

PAGE: 3 of 7

5. ENVIRONMENTAL INFORMATION (continued)

before disposal.

EPCRA HAZARD CLASS:**FIRE HAZARD:** No **PRESSURE:** Yes **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** Yes**6. SUGGESTED FIRST AID****EYE CONTACT:**

Immediately flush eyes with large amounts of water for at least 15 minutes. Get immediate medical attention.

SKIN CONTACT:

Immediately flush skin with large amounts of water. Remove contaminated clothing. If irritation persists, call a physician. Wash contaminated clothing before reuse.

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.

OTHER FIRST AID:**NOTE TO PHYSICIANS:** Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary.**7. PRECAUTIONARY INFORMATION****EYE PROTECTION:**

Avoid eye contact with vapor, spray, or mist. Wear unvented goggles during operations in which exposure is likely.

SKIN PROTECTION:

Avoid skin contact. Wear appropriate gloves when handling this material. A pair of gloves made from the following material(s) are recommended: polyvinyl alcohol, fluoroelastomer (Viton).

VENTILATION PROTECTION:

Use with appropriate local exhaust ventilation. Use in a well-ventilated area. Provide sufficient ventilation to maintain emissions below recommended exposure limits. Use with adequate dilution ventilation. If exhaust ventilation is not adequate, use appropriate respiratory protection.

RESPIRATORY PROTECTION:

Avoid breathing of vapors, mists or spray. Select one of the following NIOSH approved respirators based on airborne concentration

MATERIAL SAFETY
DATA SHEET**3M**MSDS: 3M 1606 Cable Cleaner and Degreaser (obsolete)
APRIL 17, 1998

PAGE: 4 of 7

7. PRECAUTIONARY INFORMATION (continued)

of contaminants and in accordance with OSHA regulations: half-mask organic vapor respirator, Half-mask organic vapor respirator with dust/mist prefilter, full-face organic vapor respirator, full-face organic vapor respirator with dust/mist prefilter.

PREVENTION OF ACCIDENTAL INGESTION:

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

RECOMMENDED STORAGE:

Store in a cool place. Store away from acids. Store away from heat. Keep container in well-ventilated area. Keep out of the reach of children.

FIRE AND EXPLOSION AVOIDANCE:

Keep away from heat, sparks, open flame, and other sources of ignition. Do not pierce or burn container, even after use.

INGREDIENTS		EXPOSURE LIMITS		TYPE	AUTH	SKIN*
		VALUE	UNIT			
1-1-1-TRICHLOROETHANE	.....	350	ppm	TWA	ACGIH	
1-1-1-TRICHLOROETHANE	.....	450	ppm	STEL	ACGIH	
1-1-1-TRICHLOROETHANE	.....	350	ppm	TWA	OSHA	
1-1-1-TRICHLOROETHANE	.....	450	ppm	STEL	OSHA	
PERCHLOROETHYLENE	.....	25	ppm	TWA	ACGIH	
PERCHLOROETHYLENE	.....	100	ppm	STEL	ACGIH	
PERCHLOROETHYLENE	.....	25	ppm	TWA	OSHA	
CARBON DIOXIDE (PROPELLANT)	.....	5000	ppm	TWA	ACGIH	
CARBON DIOXIDE (PROPELLANT)	.....	30000	ppm	STEL	ACGIH	
CARBON DIOXIDE (PROPELLANT)	.....	10000	ppm	TWA	OSHA	
CARBON DIOXIDE (PROPELLANT)	.....	30000	ppm	STEL	OSHA	
1,4-DIOXANE	.....	25	ppm	TWA	ACGIH	Y
1,4-DIOXANE	.....	25	ppm	TWA	OSHA	Y

* 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
- AIHA: American Industrial Hygiene Assoc. Workplace Environmental Exposure Level
- OSHA: Occupational Safety and Health Administration

8. HEALTH HAZARD DATA**EYE CONTACT:**

Severe Eye Irritation: signs/symptoms can include redness, swelling,

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

MATERIAL SAFETY
DATA SHEETMSDS: 3M 1606 Cable Cleaner and Degreaser (obsolete)
APRIL 17, 1998

PAGE: 5 of 7

6. HEALTH HAZARD DATA

(continued)

pain, tearing, cloudy appearance of the cornea, impaired vision and possible permanently impaired vision.

SKIN CONTACT:

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

INHALATION:

Arrhythmia: signs/symptoms can include palpitations, pounding, or irregular pulse.

Cardiac Sensitization: sudden heart stoppage due to a reflex effect on the nerves which control the heart. This effect usually occurs only after inhalation of concentrated vapors such as in intentional abusive sniffing of certain solvents and propellants.

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

Chemical Pneumonitis: signs/symptoms include coughing, shortness of breath and wheezing.

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

Single exposure may cause:

Pulmonary Edema: signs/symptoms can include coughing, congestion, difficulty breathing, which can result in respiratory failure and death.

Prolonged or repeated exposure 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.

Lung Damage: signs/symptoms can include coughing, difficulty breathing, wheezing, tightness in chest, congestion, and coughing up of blood.

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.

MATERIAL SAFETY
DATA SHEET**3M**MSDS: 3M 1606 Cable Cleaner and Degreaser (obsolete)
APRIL 17, 1998

PAGE: 6 of 7

8. HEALTH HAZARD DATA

(continued)

High Blood Pressure: signs/symptoms may include dizziness, severe headache and unconsciousness.

ringing in Ears.

Peripheral Neuropathy: signs/symptoms can include tingling of extremities, incoordination, numbness, weakness and tremors.

Simple Asphyxiation: signs/symptoms can include light-headedness, rapid heart beat, a feeling of suffocation and blue color. Unconsciousness and death may occur if oxygen deprivation is severe or prolonged. Simple asphyxiation results from the displacement of oxygen in air to a concentration which is less than that necessary to maintain life.

IF SWALLOWED:

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

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.

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.

Irritation of the Oral Mucosa: signs/symptoms can include bleeding, redness, swelling, and pain of the gums.

Aspiration Pneumonitis: signs/symptoms can include coughing, difficulty breathing, wheezing, coughing up blood and pneumonia, which can be fatal.

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.

CANCER:

WARNING: Contains a chemical which can cause cancer. (123-91-1) (NTP anticipated human carcinogen, IARC possible human carcinogen 2B, Calif. Proposition 65)

WARNING: Contains a chemical which can cause cancer. (127-18-4) (NTP

MATERIAL SAFETY
DATA SHEETMSDS: 3M 1606 Cable Cleaner and Degreaser (obsolete)
APRIL 17, 1998

PAGE: 7 of 7

8. HEALTH HAZARD DATA (continued)

anticipated human carcinogen, IARC possible human carcinogen 2B,
Calif. Proposition 65)**OTHER HEALTH HAZARD INFORMATION:**Warning: Contains 1,1,1-trichloroethane, a substance which harms
public health and the environment by destroying ozone in the upper
atmosphere.

SECTION CHANGE DATES

HEADING**SECTION CHANGED SINCE FEBRUARY 11, 1997 ISSUE**

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

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