

3M General Offices
3M Center
St. Paul, Minnesota 55144-1000
(612) 733-1110

00-07
624

Duns No.: 00-617-3082

MATERIAL SAFETY
DATA SHEET



DIVISION: ADHESIVES, COATINGS AND SEALERS

TRADE NAME:

3M Accelator/Cleaner Part No. 08958
3M I.D. NUMBER: 62-4180-3709-9

ISSUED: AUGUST 11, 1988
SUPERSEDES: APRIL 12, 1988
DOCUMENT: 10-2463-7

1. INGREDIENT	C.A.S. NO.	PERCENT	EXPOSURE		LIMITS	
			VALUE	UNIT	TYPE	AUTH
1,1,1-trichloroethane	71-55-6	90.0 - 100.0	350	ppm	TWA	ACGIH
isopropyl alcohol	67-63-0	1.0 - 10.0	400	ppm	TWA	ACGIH
carbon dioxide	124-38-9	1.0 - 10.0	5000	ppm	TWA	ACGIH
1,4-dioxane	123-91-1	1.0 - 10.0	25	ppm	TWA	ACGIH

SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists

2. PHYSICAL DATA

BOILING POINT:..... Compressed Gas
VAPOR PRESSURE:..... Compressed Gas
VAPOR DENSITY:..... 4.60 Air = 1
EVAPORATION RATE:..... > 3.00 Ether = 1
SOLUBILITY IN WATER:..... Moderate
SP. GRAVITY:..... N/A
PERCENT VOLATILE:..... 100.00 %
VOLATILE ORGANICS:..... 70.00 gm/l
pH:..... N/D
VISCOSITY:..... N/A - aerosol
APPEARANCE AND ODOR: Green, liquid, chlorinated solvent odor

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... Non-flammable
FLAMMABLE LIMITS - LEL:..... 8.00 %
FLAMMABLE LIMITS - UEL:..... 10.50 %
AUTOIGNITION TEMPERATURE: ... N/D
EXTINGUISHING MEDIA:
CO2, foam, dry chemical
SPECIAL FIRE FIGHTING PROCEDURES:
Fire fighters should be equipped with self-contained breathing apparatus when fighting fires involving this material. Water may be used to prevent pressure buildup and rupture when exposed to extreme heat.
UNUSUAL FIRE AND EXPLOSION HAZARDS:
Aerosol package classified non-flammable. Cans will rupture from internal pressure at approximately 190F. When heated to decomposition, toxic fumes are formed. (Treat as pressurized container.)
NFPA-HAZARD-CODES: HEALTH 3 FIRE 3 REACTIVITY 1
UNUSUAL REACTION HAZARD: None

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

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4. REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY - MATERIALS TO AVOID:

Strong oxidizers (i.e., peroxides, permangantes, nitric acid, etc.)
CONDITIONS TO AVOID: Do not puncture or incinerate. Do not store at temperatures above 120F.

HAZARDOUS POLYMERIZATION: Will Not Occur

HAZARDOUS DECOMPOSITION PRODUCTS:

CO, CO2, HCl and possible trace amounts of chlorine and phosgene when subjected to excessive heat or flame.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:

If cans rupture, observe precautions from other sections. Extinguish all ignition sources and ventilate area. Use inorganic absorbent to absorb spill, place absorbed product and partially full cans in a U.S. Dept. of Transportation approved metal container and seal.

RECOMMENDED DISPOSAL:

Incinerate absorbed product and partially full cans in a hazardous waste facility; more than 99% of the hydrogen chloride in exhaust gas must be removed. U.S. EPA Hazardous Waste No.: D001 (Ignitable). Dispose of empty cans in a sanitary landfill or incinerate in a commercial facility capable of handling aerosol cans. Consult applicable regulations or authorities before disposal.

ENVIRONMENTAL DATA:

Volatile Organic Compound (VOC):

Maximum VOC = 70 grams/liter.

Maximum VOC minus Water minus Exempt Solvents = 143 grams/liter.

6. SUGGESTED FIRST AID

EYE CONTACT:

Immediately flush eyes with large amounts of water for at least 10 minutes. Call a physician.

SKIN CONTACT:

Wash affected area with soap and water.

INHALATION:

Move affected person to fresh air at once. Call a physician.

IF SWALLOWED:

DO NOT INDUCE VOMITING. Drink two glasses of milk or water. Call a physician or poison control center. Do not give liquids to an unconscious person.

OTHER FIRST AID:

NONE

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7. PRECAUTIONARY INFORMATION

FOR INDUSTRIAL OR PROFESSIONAL USE ONLY.

Do not take internally. Use in areas with sufficient ventilation to maintain vapor concentrations below recommended exposure limits. Avoid breathing vapor and mist. Avoid contact with eyes and skin; wear safety glasses and impervious gloves when spraying product. Avoid vapor contact with open flames, welding arcs or other high temperature sources which can cause vapor decomposition and form harmful gases. Use only as directed. Intentional misuse by deliberately concentrating and inhaling or swallowing may be harmful or fatal. Do not puncture or incinerate can. Do not store at temperatures above 120F. Keep out of the reach of children.

ADDITIONAL EXPOSURE LIMITS

INGREDIENTS	EXPOSURE		LIMITS	
	VALUE	UNIT	TYPE	AUTH
1,1,1-trichloroethane	1900	mg/m3	TWA	ACGIH
1,1,1-trichloroethane	450	ppm	STEL	ACGIH
1,1,1-trichloroethane	2450	mg/m3	STEL	ACGIH
1,1,1-trichloroethane	350	ppm	TWA	OSHA
1,1,1-trichloroethane	1900	mg/m3	TWA	OSHA
isopropyl alcohol	980	mg/m3	TWA	ACGIH
isopropyl alcohol	500	ppm	STEL	ACGIH
isopropyl alcohol	1225	mg/m3	STEL	ACGIH
isopropyl alcohol	400	ppm	TWA	OSHA
isopropyl alcohol	980	mg/m3	TWA	OSHA
carbon dioxide	9000	mg/m3	TWA	ACGIH
carbon dioxide	30000	ppm	STEL	ACGIH
carbon dioxide	54000	mg/m3	STEL	ACGIH
carbon dioxide	5000	ppm	TWA	OSHA
carbon dioxide	9000	mg/m3	TWA	OSHA
1,4-dioxane	90	mg/m3	TWA	ACGIH
1,4-dioxane	100	ppm	TWA	OSHA
1,4-dioxane	360	mg/m3	TWA	OSHA

SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists
- OSHA: Occupational Safety and Health Administration

8. HEALTH HAZARD DATA

EYE CONTACT: Liquid and vapor may cause eye irritation. Excessive overexposure to carbon dioxide may cause vision effects with transient blindness.

SKIN CONTACT: May cause skin irritation.

INHALATION: Vapor overexposure may cause respiratory system irritation and light-headedness. Deliberate misuse by concentration and inhalation of 1,1,1-trichloroethane may cause sudden death. Chronic overexposure to carbon dioxide may cause significant physiological effects including liver, kidney, heart, and striated muscle damage, and causes changes in blood and urine composition.

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8. HEALTH HAZARD DATA (continued)

Chronic overexposure to 1,1,1-trichloroethane may cause mild liver and kidney injury, and heart rhythm disturbances. Symptoms of overexposure may include headache, dizziness, nausea, giddiness, vomiting, diarrhea, and incoordination.

INGESTION: Accidental ingestion is unlikely from an aerosol container. Ingestion may cause digestive system irritation and nervous system impairment. Ingestion of large amounts of 1,1,1-trichloroethane may cause burns, nausea, vomiting, lowered blood pressure, heart rhythm disturbances and mild liver and kidney damage. Intentional concentration and swallowing the liquid product can be harmful or fatal. Symptoms of overexposure may include nausea, vomiting, diarrhea, dizziness, sleepiness, decreased reaction time and slurred speech. Solvent aspiration into the lungs as a result of vomiting may cause lung damage, which can be fatal.

NOTE: 1,1,1-trichloroethane contains stabilizers, including 1,4-dioxane, a potential cancer hazard. No carcinogenic potential was revealed from studies in which laboratory animals were exposed by inhalation or ingestion to 1,1,1-trichloroethane containing 2.0% 1,4-dioxane. No birth defects or reproductive disorders were observed among exposed laboratory animals.

SECTION CHANGE DATES

HEADING	SECTION CHANGED SINCE	APRIL 12, 1988	ISSUE
INGREDIENTS	SECTION CHANGED SINCE	APRIL 12, 1988	ISSUE
PHYSICAL DATA	SECTION CHANGED SINCE	APRIL 12, 1988	ISSUE
FIRE & EXP. DATA	SECTION CHANGED SINCE	APRIL 12, 1988	ISSUE
HEALTH HAZD. DATA	SECTION CHANGED SINCE	APRIL 12, 1988	ISSUE

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

The information on this Data Sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. Any use of the product which is not in conformance with this Data Sheet or which involves using the product in combination with any other product or any other process is the responsibility of the user.