

MATERIAL SAFETY DATA SHEET
Cortec, Spray Technologies Division
1300 South River Street
Spooner, WI 54801

PHONE: 715-635-8711 TOLL FREE 1-800-826-6791
FAX: 715-635-2200

EMERGENCY PHONE NO.: (FOR SPILL, LEAK, FIRE,
EXPOSURE OR ACCIDENT): 1-800-535-5053

***** TEFRAWN 37005, 37006 *****

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: Tefrawn (aerosol)
PRODUCT DESCRIPTION: An excellent synthetic lubricant containing micron particles of Polytetrafluoroethylene (PTFE); when used as a metal lubricant or cutting fluid, this product provides lubricity far superior to silicone or petroleum based products. *NOTE: Tefrawn is not plastics compatible!*
RESTRICTIONS: Non-restricted

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT NAME(S)	CAS#	OCCUPATIONAL EXPOSURE LIMITS	
		TLV OR PEL	ORAL LD-50
Amyl Acetate	623-63-7	100 ppm	N.E.
Methylene Chloride	75-09-2	25 ppm	2000-4000 mg/kg (rat)
Carbon Dioxide	124-38-9	5000 ppm	N.E.

Carcinogenic: **OSHA** = No **NTP** = Yes **IARC** = Yes*
*Methylene Chloride has been found to cause cancer in certain laboratory animals and therefore may present a risk to humans; it is classified as a (Group 2B) carcinogen by IARC.

SECTION III - PHYSICAL DATA

APPEARANCE: Cloudy, white colored liquid
ODOR: Banana odor
BOILING POINT: 165 degrees F. (73.88 degrees C.)
VAPOR DENSITY (Air = 1): 4.9
VAPOR PRESSURE: 3620 mmHg
SOLUBILITY IN WATER: Negligible (<5% by weight)
SPECIFIC GRAVITY: 1.1
EVAPORATION RATE (Ether = 1): 0.4

SECTION IV - FIRE AND EXPLOSION DATA

HMIS RATING: Health - 2, Fire - 1, Reactivity - 0
FLASH POINT: N.E. (See Section VI for flammability info)
FLAMMABLE LIMITS: LEL: N.E. UEL: N.E.
EXTINGUISHING MEDIA: Dry chemical, foam, CO2
UNUSUAL FIRE AND EXPLOSION HAZARDS: Liquid contents are defined as non-flammable and non-explosive. Contents decompose to produce hydrochloric acid or gas and other toxic or irritating vapors including phosgene. Heated containers may become over-pressurized and fail explosively.
SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should wear self-contained breathing apparatus and protective clothing. Cool fire-exposed aerosols with water fog.

SECTION V - HEALTH HAZARD DATA

EMERGENCY AND FIRST AID PROCEDURES:

Eye Contact: Flush eyes with water for at least 15 minutes. Consult a physician. **Skin Contact:** Wash affected area with soap and water. If irritation develops or persists, consult a physician. **Inhalation:** Move victim to fresh air, administer oxygen if necessary. If victim has stopped breathing begin CPR, get immediate medical attention. **Ingestion:** If material is swallowed, consult a physician immediately. **DO NOT** induce vomiting unless physician directed. If spontaneous vomiting occurs, keep victim's head below hips to prevent aspiration of vomitus into lungs.
MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: Pre-existing skin conditions.
PRIMARY ROUTES OF ENTRY: Inhalation, skin and eye contact.
HEALTH HAZARDS (acute and chronic) / EFFECTS OF OVEREXPOSURE: Excessive inhalation of high vapor concentrations may cause dizziness, weakness, fatigue, nausea, headache, unconsciousness. Extreme inhalation overexposure may cause asphyxiation. Aspiration of this material into lungs can cause chemical pneumonitis which may be fatal.

SECTION VI - REACTIVITY DATA

STABILITY: Stable under normal use and storage conditions.
HAZARDOUS POLYMERIZATION: Will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS (under fire conditions): Hydrogen chloride, trace amounts of phosgene and chloride, carbon oxides, irritating aldehydes and ketones.
INCOMPATIBILITY: Avoid strong oxidizing agents, acids, alkalis, base materials, powdered Al, Zn, etc.
CONDITIONS TO AVOID: Avoid spraying near heat, flame, and all ignition sources; aerosol stream is flammable!

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Extinguish ignition sources, ventilate area. Take up spilled material on an inert, absorbent material and place into a DOT approved waste container for disposal. Prevent spilled material from entering sewers or drains.
WASTE DISPOSAL: Dispose of waste or unwanted product in accordance with existing Federal, State or Local environmental regulations. Waste may be reclaimed or incinerated by permitted facilities.

SECTION VIII - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: A NIOSH approved positive pressure, air-supplied respirator must be worn if air monitoring indicates industrial worker exposures exceed OSHA's 25 ppm exposure limit established for Methylene Chloride.
PROTECTIVE GLOVES: Viton or PVA gloves
EYE PROTECTION: Safety glasses, splash goggles, face shield
OTHER PROTECTIVE EQUIPMENT: Eye wash station.

SECTION IX - SPECIAL PRECAUTIONS AND STORAGE DATA

PRECAUTIONS TO BE TAKEN IN HANDLING: Avoid eye and skin contact. Avoid excessive inhalation of vapors - use only in a well-ventilated environment. Intentional inhalation of contents is harmful and may be fatal.
PRECAUTIONS TO BE TAKEN IN STORING: Store containers below 120°F (48°C), away from heat or ignition sources, open flame, out of direct sunlight.

SECTION X - SHIPPING DATA

UN/NA NUMBER: UN1950
DOT/IATA SHIPPING NAME: (DOT): Aerosols, non-flammable, (each not exceeding 1L capacity); (IATA):

Aerosols, non-flammable , containing substances in Division 6.1, Packing Group III (each not exceeding 1 L capacity).
DOT/IATA HAZARD CLASS: (DOT): 2.2; (IATA): 2.2, Sub 6.1.
DOT REQUIRED LABELS: (DOT, ground mode): 2 Non-flammable gas; (IATA): 2 Non-flammable gas, 6 Toxic.

(continued on page 2)

Page 2

Tefrawn 37005, 37006

DOT EXCEPTION: See Code 49 section 172.101, column (8A). Section 173.306(h) permits "limited quantity" materials (inner packagings which do not exceed 1L capacity / 61 cubic

inches and for which internal pressures do not exceed 180 psig at 130 degrees F.) meeting section 171.8 definition of "consumer commodity" to be renamed "Consumer commodity" and reclassified as ORM-D when shipped via ground mode, domestically.

IMDG SHIPPING NAME: Aerosols, non-flammable, (each not exceeding 1L capacity)

FREIGHT CLASS: NMFC 155250

LTL: 65

TL: 35

MW: 30

T.S.C.A STATUS: All components listed

PREPARED BY: Roger Hanson

DATE PREPARED: 03-21-00 SUPERSEDES: 01-31-00

DISCLAIMER: This information is furnished without warranty, expressed, or implied, except that it is accurate to the best knowledge of Cortec, Spray Technologies Division. The data on this sheet relates only to the specific material designated herein. Cortec, Spray Technologies Division assumes no legal responsibility for use or reliance upon this data.

N.E. = NOT ESTABLISHED N.A. = NOT APPLICABLE