

MATERIAL SAFETY DATA SHEET
Cortec, Spray Technologies Division
1300 South River Street
Spooer, 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

***** BUDGET DUST-A-WAY 10210* *****
**

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: Budget Dust-A-Way (Self-pressurized)
PRODUCT DESCRIPTION: An economical, non-ozone-depleting blend of Dimethyl Ether and 1,1,1,2-Tetrafluoroethane gases. Used for removing foreign particles from delicate devices. **Potentially extremely flammable – not for use on energized equipment.**
RESTRICTIONS: Non-restricted

SECTION II - HAZARDOUS INGREDIENTS

| INGREDIENT NAME(S) | CAS # | OCCUPATIONAL EXPOSURE LIMITS | |
|----------------------------|----------|------------------------------|------------|
| | | TLV OR PEL | ORAL LD-50 |
| 1,1,1,2-Tetrafluoroethane- | 811-97-2 | 500 ppm (See below*) | N.E. |
| Dimethyl Ether | 115-10-6 | 1000 ppm (See below**) | N.E. |

*500 ppm / 8 hr. shift Workplace Environmental Exposure Level (WEEL) is established by the American Industrial Hygiene Association

**1000 ppm / 8 hr. shift Workplace Environmental Exposure Level (WEEL) is established by the American Industrial Hygiene Association

Carcinogenic: **OSHA** = no **NTP** = no **IARC** = no

SECTION III - PHYSICAL DATA

APPEARANCE: Colorless, liquified gas
ODOR: Slight ethereal odor
BOILING POINT: -13 degrees F. (-25 degrees C.)
VAPOR DENSITY (Air = 1): 2.9
VAPOR PRESSURE (At 70 degrees F.): 70 psig
SOLUBILITY IN WATER (At 70 degrees F.): 3.9%
SPECIFIC GRAVITY: 0.87
EVAPORATION RATE (Ether = 1): >1

SECTION IV - FIRE AND EXPLOSION DATA

HMIS RATING: Health – 1, Fire – 4, Reactivity - 1
FLASH POINT: Estimated at –42 degrees F. (-41 degrees C.) (See section VI for additional flammability data)
FLAMMABLE LIMITS: LEL: 3.4% UEL: 18.0%
EXTINGUISHING MEDIA: As appropriate for surrounding combustibles.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Decomposition may occur with high temperature or open flames. Containers exposed to heat may over-pressurize and fail explosively.
SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should wear self-contained breathing apparatus. Cool fire-exposed containers with water fog.

SECTION V - HEALTH HAZARD DATA

EMERGENCY AND FIRST AID PROCEDURES:
Eye Contact: If liquid phase contents are sprayed into eyes, immediately flush eyes with tepid water for at least 15 minutes

and immediately consult a physician; freeze burns can occur if liquid phase of gas contents contacts eye tissue. Skin Contact: Rinse affected area with tepid water. If freeze burn occurs skin irritation develops or persists, consult a physician promptly. Inhalation: Remove to fresh air, administer oxygen if necessary. If victim has stopped breathing begin CPR. Get immediate medical attention. Ingestion: If liquid phase contents are swallowed, get immediate medical attention; liquid phase contents can freeze mucous membranes, eye tissues and skin. **IMPORTANT:** Keep container upright during use; avoid inverting, tilting or shaking can during use – failure to observe this warning may result in liquified gas being expelled from can to possibly damage work pieces or freeze burn user.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: Cardiovascular disease
PRIMARY ROUTES OF ENTRY: Inhalation, skin and eye contact.

HEALTH HAZARDS (acute and chronic) / EFFECTS OF OVEREXPOSURE:

1. Acute skin contact with liquified gas phased contents may result in freeze burn to exposed tissues.
2. Contact of eye tissues with liquified gas phased contents may result in freeze burns.
3. Excessive inhalation of high vapor concentrations may cause dizziness, weakness, fatigue, nausea, headache, unconsciousness, possible asphyxiation.
4. Swallowing this product is expected to cause headache, nausea, vomiting, stomach cramps and diarrhea.

SECTION VI - REACTIVITY DATA

STABILITY: Stable under normal use and storage conditions.
HAZARDOUS POLYMERIZATION: Will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS (under fire conditions): Hydrochloric and hydrofluoric acids, possibly carbonyl halides.
INCOMPATIBILITY: Avoid alkali or alkaline earth metals, powdered AL, ZN, BE, etc., oxygen or oxidizers.
CONDITIONS TO AVOID: Contact with incompatible materials and open flames, heat, sparks. Though not classified as flammable via standard test methods (Code 16, 1500.3(C)(6), contents can be ignited or flashed under certain circumstances.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Immediately extinguish potential ignition sources, ventilate area. Contents are rapidly absorbed into air.
WASTE DISPOSAL: Dispose of waste or unwanted product in accordance with existing Federal, State and Local environmental regulations. Waste may be reclaimed or incinerated by permitted facilities.

SECTION VIII - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: Not normally required; mechanical (general) ventilation is usually adequate. Positive pressure, air-supplied respirators are recommended in high vapor concentrations or oxygen-deficient atmospheres.
PROTECTIVE GLOVES: PVA or neoprene gloves.
EYE PROTECTION: Safety glasses are generally adequate.
OTHER PROTECTIVE EQUIPMENT: Eye wash station.

SECTION IX - SPECIAL PRECAUTIONS AND STORAGE DATA

PRECAUTIONS TO BE TAKEN IN HANDLING: Avoid eye and skin contact with liquified gas phased contents. Avoid excessive inhalation of vapors. Use 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 sources, open flame, out of direct sunlight.

SECTION X - SHIPPING DATA

U.N./N.A. NUMBER: UN1954

DOT/IATA SHIPPING NAME: Compressed gases, flammable, n.o.s. (Dimethyl Ether / 1,1,1,2-Tetrafluoroethane)

DOT/IATA HAZARD CLASS: 2.1

DOT/IATA REQUIRED LABELS: (a) 2, Flammable gas; (b) Cargo Aircraft Only (air shipment only)

DOT EXCEPTION: DOT-E 11516 (7th revision), expiration date March 31, 2002, permits DOT 2Q spec containers not exceeding 667 ml capacity and internal pressure not exceeding 180 psig at 130 degrees F. to be shipped via ground mode, domestically excepted from proper shipping name entered in body of shipping documents. Ground shipments packaged per direction of DOT-E 11516 are additionally excepted from labeling requirements and placarding requirements as well as from other regulation normally imposed upon highway carriage as outlined in Code 49. *Copy of DOT-E 11516 is periodically revised by DOT and is always available upon request by telephoning DOT at (202) 366-4510. Copy of DOT-E 11516 must accompany air shipments of this material.*

IMDG SHIPPING NAME: Compressed gases, flammable, n.o.s. (Dimethyl Ether / 1,1,1,2-Tetrafluoroethane)

FREIGHT CLASS: NMFC 86150

LTL: 70

TL: 40

MW: 30

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

PREPARED BY: Roger Hanson

DATE PREPARED: 12-19-00 SUPERSEDES: 03-23-00

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