



MATERIAL SAFETY DATA SHEET

SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: EXP 31300 and EXP 31301 Compressed Gas Dusters (X82055 and X82056)

DISTRIBUTOR: Corporate Express.
One Environmental Way
Broomfield, CO 80021

SUPPLIER: KENSINGTON TECHNOLOGY GROUP
2000 Alameda de Las Pulgas
SAN MATEO, CA 94403

FOR MEDICAL OR FIRST AID EMERGENCY CALL INFOTRAC
1-800-535-5053 or 1-352-323-3500
24 HOURS PER DAY; 7 DAYS PER WEEK

MANUFACTURER: AEROFIL TECHNOLOGY, INC.
225 INDUSTRIAL PARK DRIVE
SULLIVAN, MO 63080

SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

ITEM	CHEMICAL NAME	CAS NUMBER	WT/WT % LESS THAN
01	ETHANE, 1, 1-DIFLUORO	75-37-6	100.0%

EXPOSURE LIMITS

ITEM	ACGIH		OSHA		COMPANY	
	TLV-TWA	TLV-STEL	PEL-TWA	PEL-CEILING	TLV-TWA	SKIN
01	NO INFO	NO INFO	NO INFO	NO INFO	1000 ppm	NO

(See Section 16 for abbreviation legend)

SECTION 3 – HAZARDS IDENTIFICATION

***** EMERGENCY OVERVIEW***:** KEEP FROM REACH OF CHILDREN. DO NOT PUNCTURE, INCINERATE, OR PLACE AEROSOL PRODUCT CONTAINERS IN COMPACTORS. CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED SINCE CONTAINERS RETAIN PRODUCT RESIDUES (VAPOR, LIQUID, AND/OR SOLID). ALL HAZARD PRECAUTIONS GIVEN MUST BE OBSERVED. DO NOT FLAME CUT, BRAZE, OR USE WELDING TORCH. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THIS PRODUCT MAY BE HARMFUL OR FATAL.

EFFECTS OF OVEREXPOSURE – EYE CONTACT: MAY CAUSE IRRITATION, REDNESS, TEARING, BLURRED VISION.

EFFECTS OF OVEREXPOSURE – SKIN CONTACT: CONTACT WITH LIQUID FROM THIS PRODUCT MAY CAUSE FROSTBITE. PROLONGED OR REPEATED CONTACT CAN CAUSE MODERATE IRRITATION DEFATTING, DERMATITIS.

EFFECTS OF OVEREXPOSURE – INHALATION: EXCESSIVE INHALATION OF VAPORS CAN CAUSE NASAL AND RESPIRATORY IRRITATION, DIZZINESS, WEAKNESS, FATIGUE, NAUSEA, HEADACHE, POSSIBLE UNCONSCIOUSNESS, AND EVEN ASPHYXIATION. POSSIBLE CARDIAC ARRHYTHMIAS AT HIGH CONCENTRATIONS

EFFECTS OF OVEREXPOSURE – INGESTION: THIS IS NOT AN ANTICIPATED ROUTE OF ENTRY.

EFFECTS OF OVEREXPOSURE – CHRONIC HAZARDS: No Information.

PRIMARY ROUTE (S) OF ENTRY: SKIN CONTACT, INHALATION, EYE CONTACT

SECTION 4 – FIRST AID MEASURES

FIRST AID – EYE CONTACT: FLUSH WITH LARGE AMOUNTS OF WATER, LIFTING UPPER AND LOWER LIDS OCCASIONALLY, GET MEDICAL ATTENTION.

FIRST AID – SKIN CONTACT: FLUSH THOROUGHLY WITH WATER TO WARM SKIN, TREAT FOR FROSTBITE IF NECESSARY.

FIRST AID – INHALATION: REMOVE INDIVIDUAL TO FRESH AIR. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. GIVE ARTIFICIAL RESPIRATION IF BREATHING HAS STOPPED. KEEP PERSON WARM AND QUIET. GET MEDICAL ATTENTION.

FIRST AID – INGESTION: THIS IS NOT AN ANTICIPATED ROUTE OF ENTRY.

SECTION 5 – FIRE FIGHTING MEASURES

FLASH POINT: -58 F
(PENSKY-MARTENS C.C.)

LOWER EXPLOSIVE LIMIT: 3.9%
UPPER EXPLOSIVE LIMIT: 16.9%

AUTOIGNITION TEMPERATURE: N.D.

EXTINGUISHING MEDIA: CO2, DRY CHEMICAL, WATERFOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: VAPORS ARE HEAVIER THAN AIR AND TRAVEL ALONG THE GROUND OR MAY BE MOVED BY VENTILATION AND IGNITED BY IGNITION SOURCES AT LOCATIONS DISTANT FROM MATERIAL HANDLING POINT. FOR AEROSOL PRODUCTS – EXPOSURE TO TEMPERATURES OVER 130F MAY CAUSE CONTAINERS TO BURST, RELEASING HIGHLY FLAMMABLE GAS.

SPECIAL FIREFIGHTING PROCEDURES: WEAR SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE WHEN FIGHTING FIRES. KEEP FIRE EXPOSED CONTAINERS COOL WITH WATER FOG.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: ELIMINATE SOURCES OF IGNITION AND VENTILATE AREA. PERSONS NOT PROPERLY EQUIPPED SHOULD BE EXCLUDED FROM AREA. STOP SPILL AT SOURCE IF POSSIBLE. AVOID INHALATION OF VAPORS. AVOID CONTACT WITH LIQUID. THIS PRODUCT CONSISTS OF MATERIALS WHICH ARE GASES AT ROOM TEMPERATURE. IN THE EVENT OF AN ACCIDENTAL RELEASE, THE CONTENTS OF THIS PRODUCT WILL EVAPORATE. IF UNEMPTIED AEROSOLS ARE TO BE DISPOSED OF, DO SO IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

SECTION 7 – HANDLING AND STORAGE

HANDLING: No Information.

STORAGE: DO NOT STORE ABOVE 120F. DO NOT STORE IN DIRECT SUNLIGHT.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: PROVIDE SUFFICIENT MECHANICAL VENTILATION (GENERAL AND/OR LOCAL EXHAUST) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV (S).

RESPIRATORY PROTECTION: IF WORK PLACE EXPOSURE LIMITS OF PRODUCT OR ANY COMPONENT IS EXCEEDED, USE A NIOSH/MSHA APPROVED RESPIRATOR. CONSULT YOUR SAFETY EQUIPMENT SUPPLIER FOR RECOMMENDATIONS.

SKIN PROTECTION: NOT NECESSARY UNDER NORMAL CONDITIONS. WEAR INSULATED RUBBER GLOVES IF THERE IS ANTICIPATED EXPOSURE TO LIQUID PRODUCT.

EYE PROTECTION: SAFETY GLASSES ARE RECOMMENDED TO PROTECT AGAINST FLYING DIRT AND OTHER OBJECTS DISPLACED BY AIR DUSTER.

OTHER PROTECTIVE EQUIPMENT: NONE KNOWN

HYGIENIC PRACTICES: WASH HANDS BEFORE EATING OR SMOKING. SMOKE IN DESIGNATED AREAS ONLY. REMOVE AND LAUNDRER CLOTHING IF CONTAMINATED.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE	: -13 to -13 F	VAPOR DENSITY	: Is heavier than air
ODOR	: SLIGHT ETHER-LIKE ODOR	THRESHOLD	: N.D.
APPEARANCE	: COLORLESS GAS	EVAPORATION RATE:	Is faster than Butyl Acetate
SOLUBILITY IN H2O:	NEGLIGIBLE	SPECIFIC GRAVITY	: 0.9006
FREEZE POINT	: N.D.	pH @ 0.0%	: N.A.
VAPOR PRESSURE	: N.D.	VISCOSITY	: N.D.
PHYSICAL STATE	: LIQ. IN CAN		
COEFFICIENT OF WATER/OIL DISTRIBUTION: N.D.			

(See Section 16 for abbreviation legend)

SECTION 10 – STABILITY AND REACTIVITY

CONDITIONS TO AVOID: HEAT, SPARKS, WELDING ARCS, OPEN FLAME, STATIC ELECTRICITY, OR OTHER SOURCE OF IGNITION.

INCOMPATIBILITY: ALKALI, ALKALINE EARTH METALS.

HAZARDOUS DECOMPOSITION PRODUCTS: HYDROFLUORIC ACID AND POSSIBLY CARBONYL FLUORIDE. CARBON MONOXIDE AND CARBON DIOXIDE

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

SECTION 11 – TOXICOLOGICAL PROPERTIES

No product or component toxicological information is available.

SECTION 12 – ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: No Information.

SECTION 13 – DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: No Information.

SECTION 14 – TRANSPORTATION INFORMATION

DOT Proper Shipping Name	1,1 – Difluoroethane
Hazard Class	2.1
Identification Number	UN 1030
Packing Group	Not Applicable

This product is packaged under DOT Exemption Number DOT-E 11516 and is **FORBIDDEN** on passenger aircraft and passenger rail.

SECTION 15 – REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS: AS FOLLOWS –

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

CERCLA – SARA HAZARD CATEGORY: This product has been reviewed according to the EPA ‘Hazard Categories’ promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

SARA SECTION 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

=====CHEMICAL NAME===== CAS NUMBER =====WT/WT % IS LESS THAN
No SARA Section 313 components exist in this product.

TOXIC SUBSTANCES CONTROL ACT: This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

=====CHEMICAL NAME===== CAS NUMBER
No information is available.

U.S. STATE REGULATIONS: AS FOLLOWS –

CALIFORNIA PROPOSITION 65: WARNING: The chemical (s) noted below and contained in this product, are known to the state of California to cause cancer, birth defects or other reproductive harm:

=====CHEMICAL NAME===== CAS NUMBER ===== WT/WT % IS LESS THAN
No Proposition 65 chemicals exist in this product at levels above 1 ppm.

INTERNATIONAL REGULATIONS: AS FOLLOWS –

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

CANADIAN WHMIS CLASS: No information available.

SECTION 16 – OTHER INFORMATION

HMIS RATINGS – HEALTH: 2 FLAMMABILITY: 4 REACTIVITY: 1

PREVIOUS MSDS REVISION DATE: 1/8/05

REASON FOR REVISION: PERIODIC REVISION

VOC CONTENT: 0.0% BY WEIGHT, 0 GRAMS/LITER TOTAL PRODUCT, 0 GRAMS/LITER LESS
WATER AND EXEMPT, 0.00 LBS/GAL

LEGEND: N.A. – Not Applicable
N.E. – Not Established
N.D. – Not Determined

DISCLAIMER

The information contained on this MSDS has been checked and should be accurate. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations. The environmental information and hazardous materials identification system have been included by Aerofil Technology, in order to provide additional health and hazard classification information. The ratings recommended are based upon the criteria supplied by the developers of these rating systems, together with Aerofil Technology's interpretation of the available data. Proper personal protective equipment varies widely with conditions of use and anticipated exposure. We recommend that a supervisor or other qualified person determine proper PPE for intended use.