

MATERIAL SAFETY DATA SHEET

SECTION 1

PRECISION CONVERTING
6650 CONCORD PARK DRIVE
HOUSTON, TX 77040
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EMERGENCY RESPONSE 1-800-424-9300

PRODUCT NAME: PC-1027 SILICONE MOLD RELEASE
CHEMICAL NAME AND SYNONYMS: SILICONE AEROSOL WITH HFC SOLVENT
FORMULA: SILICONE MOLD RELEASE
COMPOSITION: SILICONE IN NON-FLAMMABLE SOLVENT WITH PROPANE PROPELLANT

SECTION 2 – HAZARDOUS INGREDIENTS

HAZARDOUS MIXTURES OF SOLIDS, LIQUIDS, OR GASES	%	OSHA PEL PPM	ACGIH TLV PPM	CAS #
PROPANE (A-70 PROPELLANT)*	5-15	1,000		68-476-86-8
ISOBUTANE (A-70 PROPELLANT)*	5-15	800		68-476-86-8
1,1 DICHLORO-1-FLUOROETHANE	65-75	N.E.	N.E.	1717-00-6
PAINTABLE SILICONE	5-8	N.A.	N.A.	TRADE SECRET

(REGULATORY AGENCIES LIMITS WILL TAKE PRECEDENT OVER THIS FIGURE)

*THE PROPELLANT IS A MIXTURE OF PROPANE & ISOBUTANE AND HAS A SEPARATE CAS #.
ALL INGREDIENTS IN THIS MIXTURE ARE IN COMPLIANCE WITH TOSCA AND ARE LISTED ON THE TOSCA INVENTORY.

SECTION 3 – PHYSICAL DATA

	PROPANE & ISOBUTANE A-70 PROPELLANT	HCFC 141B
BOILING POINT (°F)	-116.3	85
VAP. PRESS. (MM HG) @ 70°F	70 PSIG	520
VAPOR DENSITY (AIR = 1) @ 68°F	1.77	1.1
SOLUBILITY IN WATER - %	SLIGHT	N.A.
SPECIFIC GRAVITY (H ₂ O = 1 @ 68°F)	0.541	1.20
PERCENT VOLATILE BY WT. (%)	100	100
EVAPORATION RATE (CCL4 = 1)	VERY RAPID	RAPID
APPEARANCE	COLORLESS	COLORLESS

SECTION 4 – FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY: THIS PRODUCT IS NOT FLAMMABLE BY THE FLAME EXTENSION TEST

EXTINGUISHING MEDIA: USE WATER FOG, DRY CHEMICAL OR CARBON DIOXIDE

FLASH POINT OF INGREDIENTS: HCFC141B – NO FLASH POINT, BUT IT WILL BURN WHEN IT IS DILUTED WITH AIR
(METHOD USED) SILICONE – NONE A-70 PROPELLANT -138°F (TCC)

FLAMMABLE LIMITS: THE MIXTURE HAS NOT BEEN TESTED. HCFC 141B LFL: 6.0% @ 25°C UFL: 20.3% @ 25°C.
A-70 PROPELLANT LFL: 1.8%. UFL: 9.6%. SILICONE UNKNOWN, BUT IT BURNS WITH DIFFICULTY.

SPECIAL FIRE FIGHTING PROCEDURES: USE SELF CONTAINED BREATHING APPARATUS (SCBA) TO PROTECT AGAINST DECOMPOSITION PRODUCTS IF LARGE QUANTITIES OF THE MOLD RELEASES CONTACT THE FIRE.

UNUSUAL FIRE AND EXPLOSION HAZARD: TEMPERATURE OF CAN SHOULD NOT EXCEED 120°F. EXCESSIVE PRESSURE CAN CAUSE CAN TO BURST.

HAZARDOUS DECOMPOSITION PRODUCTS: IF EXPOSED TO A FIRE, THE INGREDIENTS WILL DECOMPOSE TO WATER, CARBON DIOXIDE, CARBON MONOXIDE, HALOGEN ACIDS, AND SMALL AMOUNTS OF CARBONYL HALIDES SUCH AS PHOSGENE. THE HCFC 141B BEGINS TO DECOMPOSE AT 480 TO 500°F.

SECTION 5 – REACTIVITY DATA

STABILITY: STABLE AT AMBIENT TEMPERATURES AND NORMAL PRESSURES. HCFC 141B IS UNSTABLE AT TEMPERATURES ABOVE 480°F.

CONDITIONS TO AVOID: SINCE THE INTERNAL PRESSURE CAN CAUSE CANS TO BURST, DO NOT EXCEED 120°F. WHEN X-9056 IS BEING SPRAYED, AVOID OPEN FLAMES, WELDING ARCS, AND ANY OTHER HIGH TEMPERATURE SOURCES, WHICH MAY CAUSE COMBUSTION AND THERMAL DECOMPOSITION.

INCOMPATIBILITY: SOLVENTS ARE INCOMPATIBLE WITH STRONG OXIDIZERS & ACTIVE METALS. AVOID CONTACT WITH ALUMINUM AND ZINC POWDERS.

HAZARDOUS DECOMPOSITION PRODUCTS: HCFC 141B – HF, HCL, CARBONYL HALIIDES, CO & CO₂ MAY BE GENERATED. THEY DECOMPOSE AT TEMPERATURES ABOVE 480°F.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

SECTION 6 – HEALTH HAZARD DATA

THE INGREDIENTS IN PC-1027 ARE OF RELATIVELY LOW TOXICITY.

EYE CONTACT: THE HCFC 141B IS A MILD IRRITANT

SKIN CONTACT: MAY CAUSE DEFATING OF SKIN. OTHERWISE, IT IS ESSENTIALLY NON-IRRITATING. HCFC 141B: REPEATED AND LONG TERM CONTACT CAN CAUSE IRRITATION AND DEFATTING OF THE SKIN. THE LD50 FOR RABBITS IS GREATER THAN 2,000 MG/KG. PROPELLANT CAN CAUSE FROSTBITE.

INGESTION: HCFC 141B: IT ISN'T LIKELY HARMFUL. ORAL LD50 FOR RATS IS GREATER THAN 5,000 MG/KG.

INHALATION: HCFC 141B: OVER EXPOSURE MAY CAUSE DIZINESS, LOSS OF CONCENTRATION, AND IRRITATION. HIGH EXPOSURE LEVELS CAN AFFECT THE CENTRAL NERVOUS SYSTEM CAUSING DEPRESSION (INTOXICATION) AND CARDIAC ARRHYTHIMIA. IT WILL DISPLACE AIR IN LOW OR ENCLOSED SPACES AND CAN CAUSE ASPHYXIATION. IN ANIMALS, BREATHING HIGH CONCENTRATIONS CAUSES ANESTHESIA. TESTS WITH HCFC 141B GAVE THE FOLLOWING RESULTS FOR THE IMMEDIATE (ACUTE) LEVEL:

ACUTE INHALATION: ALBINO RATS: (4 HR LC50) 62,000PPM
SUBCHRONIC INHALATION: INCREASE CHOLESTEROL/DECREASE BODY WEIGHT 20,000 PPM
NO EFFECT LEVEL: 8,000 PPM
CARDIAC SENSITIZATION LEVEL: 10,000 PPM
TERATOLOGY, RAT FETAL TOXIC: 20,000 PPM
NO EFFECT LEVEL: 8,000 PPM
TERATOLOGY, RABBIT FETAL TOXIC: 4,200 PPM
EFFECT LEVEL: 1,400 PPM

ACUTE OR CHRONIC HEALTH HAZARDS

THIS PRODUCT DOES NOT CONTAIN INGREDIENTS LISTED AS CARCINOGENS BY IARC, NTP, OR OSHA

SECTION 7 – FIRST AID PROCEDURES

EYES: WASH EYES WITH WATER FOR 15 MINUTES. LIFT THE EYE LIDS OCCASIONALLY TO REMOVE ANY RESIDUAL MATERIAL. GET MEDICAL ATTENTION IF IRRITATION PERSISTS

SKIN: WASH SKIN PROMPTLY WITH SOAP AND WATER. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

INGESTION: DO NOT INDUCE VOMITING. DO NOT GIVE STIMULANTS. GET MEDICAL ATTENTION.

INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE MOUTH-TO-MOUTH RESUSCITATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION.

SECTION 8 – SPILL, LEAK, AND DISPOSAL PROCEDURES

ACTION TO TAKE FOR SPILLS: ELIMINATE ALL SOURCES OF IGNITION IN THE VICINITY OF THE SPILL OR RELEASED VAPORS. USE ABSORBENT SWEEPING COMPOUND TO SOAK UP MATERIAL AND PUT IT INTO A CLOSED CONTAINER.

DISPOSAL METHOD FOR WASTE AND CONTAINER: DISPOSE AS HAZARDOUS WASTE IN COMPLIANCE WITH ALL EPA, RCRA, AND ALL FEDERAL, STATE, AND LOCAL REGULATIONS.

SECTION 9 – HANDLING INFORMATION

VENTILATION: TEN AIR CHANGES PER HOUR IS TYPICAL. SINCE THE VAPORS ARE HEAVIER THAN AIR, THEY MAY TEND TO CONCENTRATE IN LOW SPOTS WHERE VENTILATION IS POOR.

EYE PROTECTION: USE CHEMICAL SAFETY GLASSES. DO NOT WEAR CONTACTS.

PROTECTIVE CLOTHING: LONG SLEEVES AND LONG PANTS CAN BE USED TO PREVENT CONTACT WITH THE SKIN. GLOVES SHOULD BE USED TO PREVENT FROSTBITE AND HAND CONTACT.

OTHER PRECAUTIONS: THE HCFC 141B BREAKS DOWN ABOVE 480°F TO FORM POISONOUS FUMES.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: KEEP AWAY FROM HEAT, SPARKS, OR OPEN FLAME. STORE AT TEMPERATURES BELOW 120°F.

OTHER PRECAUTIONS: WHEN SPRAYING MORE THAN ONE HALF CAN CONTINUOUSLY OR MORE THAN ONE CAN CONSECUTIVELY, BE SURE THERE IS ADEQUATE VENTILATION TO PREVENT CONCENTRATION OF VAPORS FROM EXCEEDING TLV LIMITS.

HAZARDOUS TRANSPORTATION DATA (49 CFR 172. 101-2). DOT NAME: CONSUMER COMMODITY ORM-D

TRI: 1,1-DICHLORO-1-FLUOROETHANE IS REPORTABLE UNDER THE TRI (THE TOXIC CHEMICAL RELEASE INVENTORY REPORT REQUIRED BY THE USEPA UNDER SARA TITLE III; EPCRA SECTION 313).

SUPPLEMENTAL STATE COMPLIANCE INFORMATION

NEW JERSEY RIGHT TO KNOW: LABELING CHEMICAL NAME	CAS #
1,1-DICHLORO 1-FLUOROETHANE	1717-00-6
ISOBUTANE (MIXTURE IS A-70 PROPANE)	68-476-86-8
PROPELLANT	68-476-86-8

SECTION 11 – SOURCE AND DATE INFORMATION

THIS MATERIAL SAFETY DATA SHEET IS PREPARED FROM INFORMATION OBTAINED FROM THE MATERIAL SAFETY DATA SHEETS PROVIDED BY THE COMPANIES WHO SELL THE RAW MATERIALS TO US OR THEIR SUPPLIERS. WE ENDEAVOR TO SEE THAT THE INFORMATION GIVEN HERIN IS ACCURATE AND UP TO DATE. WHEN SEVERAL MATERIAL SAFETY DATA SHEETS ARE USED TO PREPARE THIS MSDS, THE SUPPLIER'S REVISION DATES ARE LISTED BELOW. WHEN ADDITIONAL INFORMATION IS RECEIVED, THIS MATERIAL SAFETY DATA SHEET WILL BE UPDATED AND REISSUED AT YOUR REQUEST.

RAW MATERIAL	REVISION DATE	ISSUE DATE
PROPANE PROPELLANT	08/--/92	05/23/94
1,1 CHLORO-1-FLUOROETHANE (HCFC 141B)	03/--/93	11/29/94
PAINTABLE SILICONE	10/15/85	10/13/85