

# MATERIAL SAFETY DATA SHEET

MSDS FORMAT MEETS ANSI Z400.1-1993 AND OSHA 1910.1200

## SECTION 1 · CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT CODE *P5163CT*  
PRODUCT NAME *MR 375 DRY FLUOROCARBON RELEASE*  
MSDS REVISION NUMBER *2*  
DATE OF PREPARATION OR REVISION *March 26, 2003*

### MANUFACTURER INFORMATION

### SUPPLIER INFORMATION

*Plastic Moulding Supplies*  
*24 BRUNEL ROAD*  
*CORBY*  
*NORTHANTS*  
*NN 17 4JW*

### EMERGENCY:

Mfg. Part #:

Supplier Part #: *MR375*

## SECTION 2 · COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT, TECHNICAL DESCRIPTION	CAS NUMBER	OSHA PEL		ACGIH TLV		% WT
<i>Liquefied Petroleum Gas</i>	<i>68476-85-7</i>	<i>1000</i>	<i>ppm</i>	<i>1000</i>	<i>ppm</i>	<i>70-80</i>
<i>Trichloroethylene</i>	<i>79-01-9</i>	<i>100</i>	<i>ppm</i>	<i>50</i>	<i>ppm</i>	<i>10-20</i>
<i>Polytetrafluoroethylene</i>	<i>9002-84-0</i>	<i>15</i>	<i>mg/m<sup>3</sup></i>	<i>15</i>	<i>mg/m<sup>3</sup></i>	<i>&lt; 5</i>

*N/E = None Established*

## SECTION 3 · HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

**CONTENTS EXTREMELY FLAMMABLE AND UNDER PRESSURE. STORE BELOW 120° F, OUT OF SUNLIGHT AND AWAY FROM HEAT SOURCES. DO NOT PUNCTURE OR INCINERATE. AVOID CONTACT WITH SKIN AND EYES. VAPOR HARMFUL. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.**

HMIS Ratings: Health-2 Fire-4 Reactivity-0 Protective Equipment-B

### POTENTIAL HEALTH EFFECTS

**EYE:** *Liquid or vapors may cause redness, burning, tearing, swelling and/or pain.*

**SKIN:** *Frequent or prolonged contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).*

**INGESTION:** *Due to being an aerosol, product does not lend itself to ingestion. Should ingestion occur, it may cause irritation to membranes of the mouth, throat and gastrointestinal tract, resulting in vomiting and/or cramps.*

**INHALATION:** *Prolonged or repeated overexposure is anesthetic. May cause irritation of the respiratory tract, or acute nervous system depression characterized by headache, dizziness, staggering gait, or confusion.*

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**MEDICAL CONDITIONS AGGRAVATED:** *Skin contact may aggravate an existing dermatitis. Others unknown.*

**CARCINOGEN DATA:** *Trichloroethylene is listed by IARC in Group 3 (not classifiable) and rated by ACGIH as Class A5, not suspected as a human carcinogen. It is also listed with California Proposition 65 as being carcinogenic. None of the other ingredients in this product are listed with OSHA, IARC or NTP as carcinogenic.*

## SECTION 4 - FIRST AID MEASURES

**INGESTION:** *Unlikely due to being in aerosol form. Should actual ingestion occur, do not induce vomiting! Drink a glass of water or milk to dilute. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.*

**EYE:** *Immediately flush with plenty of clear water for at least 15 minutes. Make sure to flush under the eyelids. Consult a physician for definitive treatment.*

**SKIN:** *Remove with soap and water. Continue flushing with water for several minutes. Use skin cream to counter resulting dryness. Consult a physician if irritation continues or if large skin area is affected.*

**INHALATION:** *Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if symptoms persist or if unconscious.*

## SECTION 5 - FIRE FIGHTING MEASURES

**FLASH POINT:** *Propellant < 0°F*

**FLAMMABLE LIMITS:** *LEL: 1.8% UEL: 9.5%*

**EXTINGUISHING MEDIA:** *For warehouse and storage conditions, use NFPA Class B extinguishers (CO2, dry chemical or universal aqueous film forming foam).*

**SPECIAL FIRE FIGHTING PROCEDURES:** *Use water spray to cool fire exposed aerosol containers for containers can rupture violently from heat developed pressure.*

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** *Contents extremely flammable and under pressure. In addition, when liquid or vapor comes into contact with flames or red hot metal, products of combustion will be created. Firemen should wear self-contained breathing apparatus.*

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

**CONTAINMENT PROCEDURES:** *Product is an aerosol, therefore spills and leaks are unlikely. In case of rupture, released content should be contained as any other solvent spill.*

**SPILL CLEANUP:** *Spills from aerosol cans are unlikely and are generally of small volume. Large spills are therefore not normally considered a problem. In case of actual rupture, avoid breathing vapors and ventilate area well. Remove all sources of ignition and use non-sparking equipment. Soak up material with inert absorbent and place in safety containers for proper disposal.*

**SPECIAL INSTRUCTIONS:** *Aerosol products represent a limited hazard and will not spill or leak unless ruptured. In case of rupture contents are generally evacuated from the can rapidly. Area should be ventilated immediately and continuous ventilation provided until all fumes and vapors have been removed. Aerosol cans should never be incinerated or burned. See Section 13 for disposal considerations.*

**REPORTING REQUIREMENTS:** *Spills due to the rupture of a single aerosol can are generally below any regulatory reporting requirements. However, if larger spills somehow result, the reporting requirements of the EPA and other local, state and federal agencies should be observed.*

## SECTION 7 - HANDLING AND STORAGE

*Avoid prolonged or repeated skin contact. Avoid breathing vapors. Store in area below 120°F. Do not incinerate (burn) containers. Assure can is in a secure place to prevent knocking over and accidental rupture. Always replace overcap when not in use. For storage of pallet quantities, compliance with ANSI/NFPA 30B is recommended.*

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## SECTION 8 · EXPOSURE CONTROLS/PERSONAL PROTECTION

**SKIN PROTECTION:** For brief contact, no precautions other than clean body-covering clothing should be needed. When prolonged or repeated contact could occur, use protective clothing such as Sol-Vex® gloves or other clothing impervious to the ingredients listed in section 2.

**EYE PROTECTION:** Safety glasses with side shields are recommended as a minimum for any type of industrial chemical handling. Where eye contact could occur, chemical splash proof goggles are recommended.

**RESPIRATORY PROTECTION:** Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required an appropriate NIOSH approved respirator for organic vapor should be worn. If respirators are needed, assure compliance with OSHA standard 29 CFR 1910.134.

**ENGINEERING CONTROLS:** General ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Local exhaust ventilation or an enclosed handling system may be needed to control air contamination below that of the lowest TLV/PEL rated ingredient from Section 2.

**EXPOSURE GUIDELINE:** Since this product is a mixture, an OSHA or ACGIH exposure value is not available. In determination of any exposure procedures, protection or testing, use the lowest rated ingredient in Section 2.

## SECTION 9 · PHYSICAL AND CHEMICAL PROPERTIES

**BOILING POINT** .....: Propellant < 0°F  
**VAPOR PRESSURE** .....: No data  
**VAPOR DENSITY (Air=1)** .....: Above 1.0  
**WATER SOLUBILITY**.....: Negligible  
**SPECIFIC GRAVITY (H<sub>2</sub>O=1)**.....: Below 1.0  
**PERCENT VOLATILE**.....: 95.0 % Wt Max  
**APPEARANCE AND ODOR**.....: Clear, colorless liquid with an ethereal odor

## SECTION 10 · STABILITY AND REACTIVITY

**STABILITY** .....: Stable  
**HAZARD POLYMERIZATION** .....: Will not occur  
**CONDITIONS TO AVOID**.....: Heat, sparks, flame, red hot metal  
**INCOMPATIBILITIES** .....: Strong oxidizing materials  
**DECOMPOSITION PRODUCTS** ...: Oxides of carbon, HCL fumes, and possible trace amounts of phosgene

## SECTION 11 · TOXICOLOGICAL INFORMATION

**ACUTE ORAL LD50** .....: Trichloroethylene >5 g/kg (rat), Polytetrafluoroethylene >12 g/kg (rat)  
**ACUTE DERMAL LD50**.....: No data  
**ACUTE INHALATION LC50**.....: Liquefied Petroleum Gas 57.42% v/v (mice), Trichloroethylene 8000 ppm/4h (rat)

## SECTION 12 · ECOLOGICAL INFORMATION

*This product has not been tested for environmental effects*

## SECTION 13 · DISPOSAL CONSIDERATIONS

*An aerosol container that does not contain a significant amount of liquid would meet the definition of scrap metal (40 CFR 261.1(c)(6)), and would be exempt from RCRA regulation under 40 CFR 261.6(a)(3)(iv) if it is to be recycled. If containers are not recycled they must be managed under all applicable RCRA and state regulations.*

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## SECTION 14 · TRANSPORTATION INFORMATION

### DOT HM-181 INFORMATION

Proper Shipping Name.....: *Consumer Commodity*  
Hazard Class or Division.....: *ORM-D*  
Identification Number.....: *none*  
Packaging Group.....: *-*  
Label(s) Required.....: *none*

### INTERNATIONAL TRANSPORTATION REGULATIONS

Proper Shipping Name.....: *Consumer Commodity*  
Class or Division.....: *9*  
Subsidiary Risk.....: *-*  
Hazard Label(s).....: *Miscellaneous*  
Packaging Group.....: *-*  
UN or ID Number.....: *ID8000*

## SECTION 15 · REGULATORY INFORMATION

**TOXIC SUBSTANCES CONTROL ACT:** *All of the ingredients in this product are on the TSCA inventory.*

**SARA TITLE III, SECTION 313:** The following ingredients are 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: *Trichloroethylene (15%)*

**CLEAN AIR ACT (CAA):** The following ingredients appear on the List of Hazardous Air Pollutants (HAP - 42 USC 7412, Title I, Part A, p112): *Trichloroethylene*

**CLEAN WATER ACT (CWA):** The following ingredients appear on the CWA List of Hazardous Substances (40 CFR 116.4): *Trichloroethylene*

**CALIFORNIA PROPOSITION 65:** The following ingredients appear on the Proposition 65 list(s): *Trichloroethylene (C)*

**CANADIAN WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS):** The following ingredients are listed: *LPG, Trichloroethylene*

## SECTION 16 · OTHER INFORMATION

*No other data available*

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