

**1 Identification**

**GHS Product Identifier**

Product form: Mixture  
 Trade name: Max Pro VOC Contact Cleaner  
 Product code: 2138

**Recommended use of the chemical and restriction on use**

Use of the substance/mixture: Electronic Cleaner

**Supplier's details**

Max Pro  
 P.O. Box 9962  
 Ft. Lauderdale, FL 33310 USA

Tel.: 954-972-3338

**Emergency phone number**

CHEMTREC 24 Hour Emergency Response  
 USA & Canada 800-424-9300

**2 Hazard(s) identification**

**Classification of the substance or mixture**

Flam. Aerosol 1: H222  
 Compressed gas: H280  
 Muta. 1B: H340  
 Carc. 1B: H350  
 Repr. 2: H361  
 STOT SE 1: H370  
 STOT RE 2: H373

Full text of H-phrases: see section 16

**GHS label elements**



Extremely flammable aerosol

Contains gas under pressure; may explode if heated

May cause genetic defects (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)

May cause cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)

Suspected of damaging fertility or the unborn child (state specific effect if known)(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)

Causes damage to organs (or state all organs affected, if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)

May cause damage to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Do not spray on an open flame or other ignition source.

Do not pierce or burn, even after use.

Do not breathe dust/fume/gas/mist/vapours/spray.

Wash affected areas thoroughly after handling.

Do not eat, drink or smoke when using this product.

Wear protective gloves/protective clothing/eye protection/face protection.

IF exposed: Call a POISON CENTER or doctor/physician.

IF exposed or concerned: Get medical advice/attention.

Get medical advice/attention if you feel unwell.

Specific treatment (see section 4.1 on this label).

Store locked up.

Protect from sunlight. Store in a well-ventilated place.

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Dispose of contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations.

#### **Other hazards which do not result in classification**

Contains gas under pressure; may explode if heated.

### **3 Composition/information on ingredients**

<b>Description</b>	<b>CAS Number</b>	<b>%</b>	<b>Note</b>
2-Propanol	67-63-0	20 - 30	Muta. 1B, H340 Carc. 1B, H350 Asp. Tox. 1, H304
1,1-Difluoroethane, liquefied, under pressure	75-37-6	10 - 30	Liquefied gas, H280
n-hexane	110-54-3	20 - 30	Flam. Liq. 2, H225, Skin Irrit. 2, H315, Repr. 2, H361, STOT SE 3, H336, STOT RE 2, H373, Asp. Tox. 1, H304, Aquatic Chronic 2, H411

### **4 First-aid measures**

#### **Description of necessary first-aid measures**

**First-aid measures general:** Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention. Call a POISON CENTER or doctor/physician.

**First-aid measures after inhalation:** Cough. Remove to fresh air and keep at rest in a position comfortable for breathing.

**First-aid measures after skin contact:** Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

**First-aid measures after eye contact:** Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. Direct contact with the eyes is likely to be irritating. Obtain medical attention if pain, blinking or redness persist.

**First-aid measures after ingestion:** Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

**Most important symptoms/effects, acute and delayed**

**Symptoms/injuries:** Suspected of damaging fertility or the unborn child. May cause genetic defects. May cause cancer. Causes damage to organs.

**Symptoms/injuries after inhalation:** Shortness of breath.

**Indication of immediate medical attention and special treatment needed, if necessary**

No additional information available.

**5 Fire-fighting measures**

**Suitable extinguishing media**

Foam. Dry powder. Carbon dioxide. Water spray. Sand.

**Unsuitable extinguishing media**

Do not use a heavy water stream.

**Specific hazards arising from the chemical**

**Fire hazard:** Extremely flammable gas. Extremely flammable aerosol.

**Explosion hazard:** Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

**Special protective actions for fire-fighters**

**Fire hazard:** Extremely flammable gas. Extremely flammable aerosol.

**Explosion hazard:** Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

**Other information:** Aerosol level 3.

**6 Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

**General measures:** Eliminate every possible source of ignition. No naked lights. No smoking. Isolate from fire, if possible, without unnecessary risk. Remove ignition sources. Use special care to avoid static electric charges.

**For non-emergency personnel**

**Protective equipment:** Gloves. Safety glasses.

**Emergency procedures:** Evacuate unnecessary personnel.

**For emergency responders**

**Protective equipment:** Equip cleanup crew with proper protection. Avoid breathing dust,fume,gas, mist,vapor spray.

**Emergency procedures:** Ventilate area.

**Environmental precautions**

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

**Methods and materials for containment and cleaning up**

**For containment:** Dam up the liquid spill.

**Methods for cleaning up:** Store away from other materials.

**7 Handling and storage**

**Precautions for safe handling**

**Additional hazards when processed:** Flammable gas. Hazardous waste due to potential risk of explosion. Pressurized container: Do not pierce or burn, even after use.

**Precautions for safe handling:** Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not spray on an open flame or other ignition source. Obtain special instructions. Do not handle until all safety precautions have been read and understood. Eliminate all ignition sources if safe to do so. Avoid breathing dust,fume,gas,mist, vapor spray. Do not breathe dust,fumes,gas,mist,vapor spray.

**Hygiene measures:** Wash affected areas thoroughly after handling.

**Conditions for safe storage, including any incompatibilities**

**Technical measures:** Proper grounding procedures to avoid static electricity should be followed.

**Storage conditions:** Keep only in the original container in a cool, well ventilated place away from sunlight. Keep container closed when not in use. Do not expose to temperatures exceeding 50 °C/ 122 °F. Keep in fireproof place.

**Incompatible products:** Strong bases. Strong acids.

**Incompatible materials:** Sources of ignition. Direct sunlight. Heat sources.

**Storage area:** Store in a well-ventilated place.

**8 Exposure controls/personal protection**

**Appropriate engineering controls**

Local exhaust venilation, vent hoods.

**Individual protection measures**

Gloves. Safety glasses. Avoid all unnecessary exposure.



<b>Hand protection:</b>	Wear protective gloves.
<b>Eye protection:</b>	Chemical goggles or safety glasses.
<b>Skin and body protection:</b>	Wear suitable protective clothing.
<b>Respiratory protection:</b>	Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.
<b>Other information:</b>	Do not eat, drink or smoke during use.

## 9 Physical and chemical properties

### Physical and chemical properties

<b>Physical state:</b>	Gas
<b>Appearance:</b>	Clear, colorless liquid.
<b>Color:</b>	Colorless.
<b>Odor:</b>	Characteristic.
<b>Odor threshold:</b>	No data available
<b>pH:</b>	No data available
<b>Relative evaporation rate (butyl acetate=1):</b>	No data available
<b>Melting point:</b>	-62 °C Lowest Component
<b>Freezing point:</b>	No data available
<b>Boiling point:</b>	37 °C Lowest Component
<b>Flash point:</b>	< -18 °C Lowest Component
<b>Auto-ignition temperature:</b>	No data available
<b>Decomposition temperature:</b>	No data available
<b>Flammability (solid, gas):</b>	No data available
<b>Vapor pressure:</b>	No data available
<b>Relative vapor density at 20 °C:</b>	No data available
<b>Relative density:</b>	0.69
<b>Solubility:</b>	Insoluble in water.
<b>Log Pow:</b>	No data available
<b>Viscosity, kinematic:</b>	0.83 cSt
<b>Viscosity, dynamic:</b>	No data available
<b>Explosive properties:</b>	No data available
<b>Oxidizing properties:</b>	No data available
<b>Explosive limits:</b>	No data available
<b>Other information</b>	
<b>VOC content:</b>	45 %

## 10 Stability and reactivity

### Reactivity

No additional information available.

### Chemical stability

Extremely flammable gas. Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Extreme risk of explosion by shock, friction, fire or other sources of ignition.

### Possibility of hazardous reactions

Not established.

### Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Heat. Sparks. Open flame. Overheating.

### Incompatible materials

Strong acids. Strong bases.

### Hazardous decomposition products

Toxic fume. Carbon monoxide. Carbon dioxide.

## 11 Toxicological information

### Toxicological (health) effects

**Acute toxicity:** Not classified

### Numerical measures of toxicity (such as acute toxicity estimates)

#### 1,1-Difluoroethane, liquefied, under pressure (75-37-6)

LC50 inhalation rat (mg/l)	176 mg/l/4h (Rat; Literature study)
LC50 inhalation rat (ppm)	> 437500 ppm/4h Mortality in 2/6 at 43.75% and 1/6 at 38.3%. At ≥ 17.52% lethargy, laboured breathing, reduced responsiveness to sound were observed. At 6.64% only hyperaemia and shallow breathing were observed.

## 12 Ecological information

### Persistence and degradability

#### CLEANER

Persistence and degradability Not established.

#### 1,1-Difluoroethane, liquefied, under pressure (75-37-6)

Persistence and degradability Biodegradability in water: no data available.

#### n-hexane (110-54-3)

Persistence and degradability May cause long-term adverse effects in the environment.

#### Isopropanol (6763-0)

Persistence and degradability Not established.

### Bioaccumulative potential

#### CLEANER

Bioaccumulative potential Not established.

#### 1,1-Difluoroethane, liquefied, under pressure (75-37-6)

Log Pow	0.75 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

**n-hexane (110-54-3)**

Bioaccumulative potential Not established.

**Isopropanol (6763-0)**

Bioaccumulative potential Not established.

**Mobility in soil**

None.

**Other adverse effects****Other information:** Avoid release to the environment.**13 Disposal considerations****Disposal methods****Waste disposal recommendations:** Dispose in a safe manner in accordance with local/national regulations. Container under pressure. Do not drill or burn even after use. Dispose of contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations.**Additional information:** Flammable vapors may accumulate in the container.**Ecology - waste materials:** Avoid release to the environment.**14 Transport information****UN Number****US DOT (ground):** UN1950, Aerosols, 2.1, Limited Quantity**ICAO/IATA (air):** UN1950, Aerosols, 2.1, Limited Quantity**IMO/IMDG (water):** UN1950, Aerosols, 2.1, Limited Quantity**Special Provisions:** N82 - See 173.306 of this subchapter for classification criteria for flammable aerosols.**UN Proper Shipping Name**

Aerosols flammable, (each not exceeding 1 L capacity)

**Transport hazard class(es)**

2.1 - Class 2.1 - Flammable gas 49 CFR 173.115

**Hazard labels (DOT)**

2.1 - Flammable gas

**DOT Special Provisions (49 CFR 172.102):**

N82 - See 173.306 of this subchapter for classification criteria for flammable aerosols.

**Packing group, if applicable**

**DOT Packaging Exceptions  
(49 CFR 173.xxx):** 306

**DOT Packaging Non Bulk  
(49 CFR 173.xxx):** None

**DOT Packaging Bulk  
(49 CFR 173.xxx):** None

**Special precautions for user**

**Overland transport**

No additional information available

**Transport by sea**

**DOT Vessel Stowage Location:** A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

**DOT Vessel Stowage Other:** 48 - Stow "away from" sources of heat, 87 - Stow "separated from" Class 1 (explosives) except Division 14, 126 - Segregation same as for Class 9, miscellaneous hazardous materials

**Air transport**

**DOT Quantity Limitations**

**Passenger aircraft/rail  
(49 CFR 173.27):** 75 kg

**DOT Quantity Limitations:**

**Cargo aircraft only  
(49 CFR 175.75):** 150 kg

**15 Regulatory information**

**Safety, health and environmental regulations specific for the product in question**

**US Federal regulations**

**CLEANER**

**SARA Section 311/312 Hazard Classes:** Delayed (chronic) health hazard  
Fire hazard  
Immediate (acute) health hazard

**1,1-Difluoroethane, liquefied, under pressure (75-37-6)**

**SARA Section 311/312 Hazard Classes:** Fire hazard  
Sudden release of pressure hazard  
Immediate (acute) health hazard

**International regulations**

**Canada**

**CLEANER**

**WHMIS Classification:** Class A - Compressed Gas  
Class B Division 5 - Flammable Aerosol

**EU-Regulations**

No additional information available



**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

**Classification according to Directive 67/548/EEC or 1999/45/EC**

Carc.Cat.2; R45

Muta.Cat.2; R46

Repr.Cat.3; R62

F+; R12

Xn; R20/21/22

Xn; R68/20/21/22

Full text of R-phrases: see section 16

**National regulations**

No additional information available

**US State regulations**

**1,1-Difluoroethane, liquefied, under pressure (75-37-6)**

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

U.S. - Massachusetts - Right To Know List

**16 Other information**

**Other information**

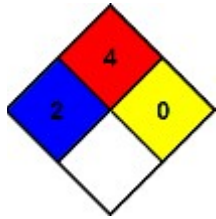
**Indication of changes:** Revision - See : \*.

**Other information:** None

Full text of H-phrases: see section 16:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Asp. Tox. 1	Aspiration hazard Category 1
Carc. 1B	Carcinogenicity Category 1B
Compressed gas	Gases under pressure Compressed gas
Flam. Aerosol 1	Flammable aerosol Category 1
Flam. Liq. 2	Flammable liquids Category 2
Liquefied gas	Gases under pressure Liquefied gas
Muta. 1B	Germ cell mutagenicity Category 1B
Repr. 2	Reproductive toxicity Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 1	Specific target organ toxicity (single exposure) Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H222	Extremely flammable aerosol
H225	Highly flammable liquid and vapor
H280	Contains gas under pressure; may explode if heated
H301	Toxic if swallowed
H304	May be fatal if swallowed and enters airways
H311	Toxic in contact with skin
H315	Causes skin irritation
H331	Toxic if inhaled
H336	May cause drowsiness or dizziness

H340	May cause genetic defects
H350	May cause cancer
H361	Suspected of damaging fertility or the unborn child
H370	Causes damage to organs
H373	May cause damage to organs through prolonged or repeated exposure
H411	Toxic to aquatic life with long lasting effects



<b>NFPA health hazard:</b>	2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
<b>NFPA fire hazard:</b>	4 -Will rapidly or completely vaporize at normal pressure and temperature, or is readily dispersed in air and will burn readily.
<b>NFPA reactivity:</b>	0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

**HMIS III Rating**

<b>Health:</b>	2 Moderate Hazard - Temporary or minor injury may occur
<b>Flammability:</b>	4 Severe Hazard
<b>Physical:</b>	1 Slight Hazard
<b>Personal Protection:</b>	B

*The Supplier identified in Section 1 of this MSDS has evaluated this product and certifies it to be labeled and packaged in compliance with the applicable provisions of the Federal Hazardous Substance Act as stated in 16 CFR 1500 and enforced by the Consumer Product Safety Commission, and where applicable the products that require Child Resistant Closures are packaged in accordance with the Poison Prevention Packaging Act as stated in 16 CFR 1700 and enforced by the Consumer Product Safety Commission. All closures have been tested in accordance with the latest protocols. No other testing is required to certify compliance with the above. The date of manufacture is stamped on the product*

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