

**Safety Data Sheet**  
*acc. to OSHA HCS*

Printing date 06/01/2022

Version 4.0

Last revision 06/01/2022

**1 Identification**

- **Product name:** Compressed Air Spray
- **Part number:** 200-20000, 200-20005
- **CAS Number:**  
811-97-2
- **EC number:**  
212-377-0
- **Application of the substance / the mixture** Cleaning agent/ Cleaner
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Allied High Tech Products Inc.  
2376 East Pacifica Place  
USA-RANCHO DOMINGUEZ, CA 90220  
USA  
info@alliedhightech.com
- **Information department:** Product safety department
- **Emergency telephone number:**  
During normal opening times: +1 (310) 635-2466  
Chemtec: +1 (202) 483-7616

**2 Hazard(s) identification**

- **Classification of the substance or mixture**



Acute Toxicity - Oral 4 H302 Harmful if swallowed.

- **Label elements**
- **GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



- **Signal word** Warning
- **Hazard-determining components of labeling:**  
1,1,1,2-tetrafluoroethane
- **Hazard statements**  
Harmful if swallowed.
- **Precautionary statements**  
Wash thoroughly after handling.

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- Do not eat, drink or smoke when using this product.
- If swallowed: Call a poison center/doctor if you feel unwell.
- Rinse mouth.
- Dispose of contents/container in accordance with local/regional/national/international regulations.

### 3 Composition/information on ingredients

- **Chemical characterization: Substances**
- **CAS No. Description**  
811-97-2 1,1,1,2-tetrafluoroethane
- **Identification number(s)**
- **EC number: 212-377-0**

### \* 4 First-aid measures

- **Description of first aid measures**
- **General information:**  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** Immediately call a doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**  
Breathing difficulty  
Coughing
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Dispose contaminated material as waste according to item 13.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about protection against explosions and fires:** Do not spray on a naked flame or any incandescent material.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Protect from sunlight.  
Store at temperatures not exceeding 50°C.  
Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.

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- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

**811-97-2 1,1,1,2-tetrafluoroethane**

WEEL | Long-term value: 1000 ppm

- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

- **Breathing equipment:**

Not required.

Use suitable respiratory protective device in case of insufficient ventilation.

- **Protection of hands:** Not required.

- **Eye protection:** Not required.

## \* 9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

**Form:** Aerosol

**Color:** Colorless

- **Odor:** Ether-like

- **Odor threshold:** Not determined.

- **pH-value:** Not determined.

- **Change in condition**

**Melting point/Melting range:** Undetermined.

**Boiling point/Boiling range:** -26.2 °C (-15.2 °F)

- **Flash point:** Not applicable, as aerosol.

- **Flammability (solid, gaseous):** Not applicable.

- **Decomposition temperature:** Not determined.

- **Auto igniting:** Not determined.

- **Danger of explosion:** Product does not present an explosion hazard.

- **Explosion limits:**

**Lower:** Not determined.

**Upper:** Not determined.

- **Vapor pressure at 20 °C (68 °F):** 5,716 hPa (4.316 mm Hg)

- **Density at 20 °C (68 °F):** 1.21 g/cm<sup>3</sup> (10.097 lbs/gal) (as liquid)

- **Relative density** Not determined.

- **Vapor density at 25 °C (77 °F)** 3.6 (Air = 1)

- **Evaporation rate** >1 (CCL4 = 1)

- **Solubility in / Miscibility with**

**Water at 20 °C (68 °F):** 1.93 g/l

- **Partition coefficient (n-octanol/water):** Not determined.

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· <b>Viscosity:</b>	
<b>Dynamic at 20 °C (68 °F):</b>	0.22 mPas
<b>Kinematic:</b>	Not determined.
<b>VOC content:</b>	0.00 %
· <b>Other information</b>	No further relevant information available.

### 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid**  
Protect from sunlight.  
Keep away from open flames. - No smoking.  
Do not mix with alkalis.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**  
Hydrogen fluoride  
Hydrocarbons  
Carbon monoxide and carbon dioxide
- **Additional information:** Hazardous decomposition products may form during combustion.

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· <b>LD/LC50 values that are relevant for classification:</b>
<b>811-97-2 1,1,1,2-tetrafluoroethane</b>
Oral   LD50   2,000 mg/kg (rat)

- **Primary chemical irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:** Contact with liquid form may cause frostbite.

- **Carcinogenic categories**

· <b>IARC (International Agency for Research on Cancer)</b>
Substance is not listed.
· <b>NTP (National Toxicology Program)</b>
Substance is not listed.
· <b>OSHA-Ca (Occupational Safety &amp; Health Administration)</b>
Substance is not listed.

### 12 Ecological information

- **Toxicity**

· <b>Aquatic toxicity:</b>
EC50 (48 h)   980 mg/l (daphnia)
LC50 (96 h)   450 mg/l (rainbow trout)

- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.

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- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (Assessment by list): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:** Contact waste processors for recycling information.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

<ul style="list-style-type: none"> <li>· <b>UN-Number</b></li> <li>· <b>DOT, IMDG, IATA</b></li> </ul>	UN1950
<ul style="list-style-type: none"> <li>· <b>UN proper shipping name</b></li> <li>· <b>DOT</b></li> <li>· <b>IMDG, IATA</b></li> </ul>	Aerosols AEROSOLS
<ul style="list-style-type: none"> <li>· <b>Transport hazard class(es)</b></li> <li>· <b>DOT</b></li> </ul>	<div style="text-align: center;">  </div>
<ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	2.2 Gases 2.2
<ul style="list-style-type: none"> <li>· <b>IMDG, IATA</b></li> </ul>	<div style="text-align: center;">  </div>
<ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	2.2 Gases 2.2
<ul style="list-style-type: none"> <li>· <b>Packing group</b></li> <li>· <b>DOT, IMDG, IATA</b></li> </ul>	not regulated
<ul style="list-style-type: none"> <li>· <b>Environmental hazards:</b></li> <li>· <b>Marine pollutant:</b></li> </ul>	No
<ul style="list-style-type: none"> <li>· <b>Special precautions for user</b></li> <li>· <b>EMS Number:</b></li> <li>· <b>Stowage Code</b></li> <li> </li> <li>· <b>Segregation Code</b></li> </ul>	Not applicable. F-D,S-U SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters. SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2.

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·	For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>DOT</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>UN "Model Regulation":</b>	UN 1950 AEROSOLS, 2.2

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**  
No further relevant information available.
- **Sara**

· <b>Section 355 (extremely hazardous substances):</b>	Substance is not listed.
· <b>Section 313 (Specific toxic chemical listings):</b>	Substance is not listed.
· <b>TSCA (Toxic Substances Control Act):</b>	ACTIVE
· <b>Hazardous Air Pollutants</b>	Substance is not listed.
· <b>Proposition 65</b>	
· <b>Chemicals known to cause cancer:</b>	Substance is not listed.
· <b>Chemicals known to cause reproductive toxicity for females:</b>	Substance is not listed.
· <b>Chemicals known to cause reproductive toxicity for males:</b>	Substance is not listed.
· <b>Chemicals known to cause developmental toxicity:</b>	Substance is not listed.
· <b>Chemical safety assessment:</b>	A Chemical Safety Assessment has not been carried out.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** Technical Services
- **Contact:** Pablo Mendoza
- **Last revision / supersedes version:** 06/01/2022 / 3.1
- **Supersedes date:** 06/10/2020
- **Abbreviations and acronyms:**  
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
EINECS: European Inventory of Existing Commercial Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
VOC: Volatile Organic Compounds (USA, EU)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic

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vPvB: very Persistent and very Bioaccumulative  
OSHA: Occupational Safety & Health  
TLV: Threshold Limit Value  
PEL: Permissible Exposure Limit  
REL: Recommended Exposure Limit  
Acute Toxicity - Oral 4: Acute toxicity – Category 4

**\* Data compared to the previous version altered.**