1 Identification

- **Product name:** Compressed Air Spray
- **Part number:** 200-20000, -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
  Chemtrec: +1 (202) 483-7616

2 Hazard(s) Identification

- **Classification of the substance or mixture**
  ![GHS07](image)
  Acute Tox. 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**
  ![GHS07](image)

- **Signal word** Warning
- **Hazard-determining components of labeling:**
  1,1,2-tetrafluoroethane

(Contd. on page 2)
Product name: Compressed Air Spray

- **Hazard statements**
  Harmful if swallowed.

- **Precautionary statements**
  Wash thoroughly after handling.
  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.

- **Classification system:**
  - **NFPA ratings (scale 0 - 4)**
    - Health = 1
    - Fire = 0
    - Reactivity = 1

- **HMIS-ratings (scale 0 - 4)**
  - HEALTH
    - Health = 1
  - FIRE
    - Fire = 0
  - REACTIVITY
    - Reactivity = 1

- **Other hazards**
  - Results of PBT and vPvB assessment
    - PBT: Not applicable.
    - vPvB: Not applicable.

### 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**
      - Allergic reactions
      - Coughing
      - Headache
      - Dizziness
      - Breathing difficulty
      - Nausea
47. 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.
- Protective Action Criteria for Chemicals

| PAC-1:     | 8,000 ppm |
| PAC-2:     | 13,000 ppm |
| PAC-3:     | 27,000 ppm |

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.
  - 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.
Product name: Compressed Air Spray

- 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

- Additional information: The lists that were valid during the creation were used as basis.

- 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.
- Protection of hands:
  Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
- Material of gloves
  The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- Penetration time of glove material
  The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- 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): 6619 hPa (4,964.7 mm Hg)

- Density at 25 °C (77 °F): 1.226 g/cm³ (10.23097 lbs/gal)
Product name: Compressed Air Spray

- 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.
- Viscosity:
  - Dynamic: Not determined.
  - Kinematic: Not determined.
- VOC content: 0.00 %
- Other information: 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:
  - LD/LC50 values that are relevant for classification:
    811-97-2 1,1,1,2-tetrafluoroethane
    - 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
  - IARC (International Agency for Research on Cancer)
    Substance is not listed.
  - NTP (National Toxicology Program)
    Substance is not listed.
12 Ecological information

- Toxicity
  - Aquatic toxicity:
    - 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.
  - 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

- UN-Number
  - DOT, IMDG, IATA: UN1950

- UN proper shipping name
  - DOT: Aerosols
  - IMDG, IATA: AEROSOLS
Product name: Compressed Air Spray

- Transport hazard class(es)
  - DOT
    - Class: 2.2
  - IMDG, IATA
    - Class: 2.2
- Packing group
  - DOT, IMDG, IATA: not regulated
- Environmental hazards:
  - Marine pollutant: No
- Special precautions for user: Not applicable.
- EMS Number: F-D,S-U
- Stowage Code
  - 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.
- Segregation Code
  - 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. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.

- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.
- UN "Model Regulation": UN 1950 AEROSOLS, 2.2

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
  - Sara
    - Section 355 (extremely hazardous substances):
      - Substance is not listed.
    - Section 313 (Specific toxic chemical listings):
      - Substance is not listed.
    - TSCA (Toxic Substances Control Act):
      - Substance is listed.
### Product name: Compressed Air Spray

<table>
<thead>
<tr>
<th>· Proposition 65</th>
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</thead>
<tbody>
<tr>
<td>· Chemicals known to cause cancer:</td>
</tr>
<tr>
<td>Substance is not listed.</td>
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<tr>
<td>· Chemicals known to cause reproductive toxicity for females:</td>
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<tr>
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<td>· EPA (Environmental Protection Agency)</td>
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<td>· TLV (Threshold Limit Value established by ACGIH)</td>
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<tr>
<td>· NIOSH-Ca (National Institute for Occupational Safety and Health)</td>
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<tr>
<td>Substance is not listed.</td>
</tr>
<tr>
<td>· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.</td>
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</tbody>
</table>

### 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: Environment protection department. |
| · Contact: Kim Dermit |
| · Date of preparation / last revision 06/12/2018 / - |
| · Abbreviations and acronyms: |
| ADR: Accord européen sur le transport 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 |
| ACGIH: American Conference of Governmental Industrial Hygienists |
| EINECS: European Inventory of Existing Commercial Chemical Substances |
| CAS: Chemical Abstracts Service (division of the American Chemical Society) |
| NFPA: National Fire Protection Association (USA) |
| HMIS: Hazardous Materials Identification System (USA) |
| VOC: Volatile Organic Compounds (USA, EU) |
| LC50: Lethal concentration, 50 percent |
| LD50: Lethal dose, 50 percent |
| PBT: Persistent, Bioaccumulative and Toxic |
| vPvB: very Persistent and very Bioaccumulative |
| NIOSH: National Institute for Occupational Safety |
| OSHA: Occupational Safety & Health |
| TLV: Threshold Limit Value |
| REL: Recommended Exposure Limit |
| Acute Tox. 4: Acute toxicity – Category 4 |