



SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

Airco Freshener Service Spray

TEC-2000 LTD.

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier

Trade Name: TEC-2000 Airco Freshener Service Spray

1.2 Relevant identified uses of the substance or mixture and uses advised against

Application of the substance / the preparation: Vehicle Airconditioner Freshener Service Spray.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: TEC-2000 LTD., P.O. Box 285, Hitchin, Herts., SG4 9WQ, U.K.

1.4 Emergency telephone number

0044 (Ø) 1462-433 660 - 0044 (Ø) 7831 105386 (24hrs)

UK - National Poisons Emergency: +44 870 600 6266 (24h - health professionals only).

Ireland - National Poisons Information Centre: +353 1 8379964.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification:

Physical Hazards: Aerosol 1 – H222, H229

Health Hazards: Eye Irrit. 2 – H319

Environmental Hazards: Not Classified

Classification (67/548/EEC or 1999/45/EC): F+;R12

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008:

The product is classified and labelled according to the CLP regulation.

Hazard pictograms:



GHS02



GHS07

Signal word: Danger

Hazard statements:

H229 Pressurised container: may burst if heated.

H319 Causes serious eye irritation.

H222 Extremely flammable aerosol.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P260 Do not breathe spray.

P271 Use only outdoors or in a well-ventilated area

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

This product does not contain any substances classified as PBT or vPvB



Registered office:
Second Floor, 2 Walsworth Road,
Hitchin, Hertfordshire, SG4 9SP
Registered in England No. 460 8392

SECTION 3: Composition/information on ingredients**3.2 Mixtures****Hazardous components:**

CAS: 64-17-5 EC number: 200-578-6 Reach Reg.No: 01-2119457610-43-xxxx	Ethyl alcohol Classification: Flam. Liq. 2 - H225; Eye Irrit. 2 - H319 Classification (67/548/EEC or 1999/45/EC): F;R11	30-60%
CAS: 811-97-2 EC number: 212-377-0 Reach Reg.No: 01- 2119459374-33-xxxx	1,1,1,2-TETRAFLUOROETHANE Classification: Press. Gas, Compressed – H280 Classification (67/548/EEC or 1999/45/EC): -	30-60%

Additional information: For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures**4.1 Description of first aid measures**

Inhalation:	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
Ingestion:	Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention if any discomfort continues.
Skin contact:	Wash skin thoroughly with soap and water.
Eye contact:	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation:	Vapours may cause headache, fatigue, dizziness and nausea.
Ingestion:	May cause discomfort if swallowed.
Skin contact:	Prolonged contact may cause dryness of the skin.
Eye contact:	Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the Doctor: Treat symptomatically.

SECTION 5: Firefighting Measures**5.1 Extinguishing media**

Suitable extinguishing media:
Extinguish with foam, carbon dioxide or dry powder.

Unsuitable extinguishing media:
Do not use water jet as an extinguisher, as this will spread the fire.

5.2 Special hazards arising from the substance or mixture

Specific hazards:
Extremely flammable liquid and vapour. Pressurised container: may burst if heated.

Hazardous combustion products:
Thermal decomposition or combustion products may include the following substances:
Carbon monoxide (CO). Carbon dioxide (CO₂). Hydrogen fluoride (HF).

5.3 Advice for firefighters

Protective actions during firefighting:
Containers close to fire should be removed or cooled with water.

SECTION 6: Accidental Release Measures**6.1 Personal precautions, protective equipment and emergency procedures**

Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. No smoking, sparks, flames or other sources of ignition near spillage. Do not touch or walk into spilled material. Avoid contact with skin, eyes and clothing. Provide adequate ventilation. Avoid inhalation of vapours. Provide adequate ventilation. Take precautionary measures against static discharges. Take care as floors and other surfaces may become slippery. Do not handle broken packages without protective equipment. If aerosol cans are ruptured, care should be taken due to the rapid escape of the pressurised contents and propellant. Wash thoroughly after dealing with a spillage.

6.2 Environmental precautions:

Do not discharge into drains or watercourses or onto the ground.

6.3 Methods and material for containment and cleaning up

Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Eliminate all sources of ignition. Provide adequate ventilation. Absorb spillage with inert, damp, non-combustible material. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage.

6.4 Reference to other sections

For personal protection, see Section 8.

SECTION 7: Handling and Storage**7.1 Precautions for safe handling:****Usage precautions:**

Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Do not expose to temperatures exceeding 50°C/122°F. Do not spray on an open flame or other ignition source. Provide adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid breathing spray. Do not pierce or burn, even after use. Do not empty into drains. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities**Storage precautions:**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store at temperatures between 4°C and 40°C. Keep out of the reach of children. Do not expose to temperatures exceeding 50°C/122°F.

Storage class:

Flammable compressed gas storage.

7.3 Specific end use(s):

The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/Personal Protection**8.1 Control parameters****Occupational exposure limits: (WEL = Workplace Exposure Limit)****Ethyl alcohol**

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1920 mg/m³

1,1,1,2-Tetrafluoroethane

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 4240 mg/m³

Ethanol (CAS: 64-17-5)

DNEL: Industry - Inhalation; Short term : 1900 mg/m³
 Industry - Dermal; Long term : 343 mg/kg/day
 Industry - Inhalation; Long term : 950 mg/m³
 Consumer - Inhalation; Short term : 950 mg/m³
 Consumer - Dermal; Long term : 206 mg/kg/day
 Consumer - Inhalation; Long term : 114 mg/m³
 Consumer - Oral; Long term : 87 mg/kg/day

PNEC: - Fresh water; 0.96 mg/l
 - Marine water; 0.79 mg/l
 - Soil; 0.62 mg/kg
 - STP; 580 mg/l

1,1,1,2-TETRAFLUOROETHANE (CAS: 811-97-2)

DNEL: Workers - Inhalation; Long term systemic effects: 13936 mg/m³
 Consumer - Inhalation; Long term systemic effects: 2476 mg/m³

PNEC: - Fresh water; 0.1 mg/l
 - Marine water; 0.01 mg/l
 - Intermittent release; 1.0 mg/l
 - STP; 73 mg/l
 - Sediment (Freshwater); 0.75 mg/kg/day

8.2 Exposure controls**Appropriate engineering controls:**

Provide adequate ventilation.

Eye / Face protection:

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166. The following protection should be worn: Tight-fitting safety glasses.

Hand protection:

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. To protect hands from chemicals, gloves should comply with European Standard EN374. For exposure up to 4 hours, wear gloves made of the following material: Nitrile rubber. Rubber (natural, latex). The selected gloves should have a breakthrough time of at least 4 hours. The breakthrough time for any glove material may be different for different glove manufacturers. When used with mixtures, the protection time of gloves cannot be accurately estimated. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected.

Hygiene measures:

Wash hands thoroughly after handling.

SECTION 9: Physical And Chemical Properties**9.1 Information on basic physical and chemical properties****General Information**

Appearance:	Aerosol.
Colour:	Colourless.
Odour:	Fruity.
pH-value:	Not applicable.
Solubility (ies):	Soluble in water.

9.2 Other information: Not determined.

SECTION 10: Stability and Reactivity

10.1 Reactivity:	There are no known reactivity hazards associated with this product.
10.2 Chemical stability:	Stable at normal ambient temperatures and when used as recommended.
10.3 Possibility of hazardous reactions:	Not determined.
10.4 Conditions to avoid:	Avoid heat, flames and other sources of ignition.
10.5 Incompatible materials:	No specific material or group of materials is likely to react with the product to produce a hazardous situation.
10.6 Hazardous decomposition products:	Thermal decomposition or combustion products may include the following substances: Carbon monoxide (CO). Carbon dioxide (CO ₂). Hydrogen fluoride (HF).

SECTION 11: Toxicological Information**11.1 Information on toxicological effects**

Inhalation:	Vapours may cause headache, fatigue, dizziness and nausea.
Ingestion:	May cause discomfort if swallowed.
Skin contact:	Prolonged contact may cause dryness of the skin.
Eye contact:	Causes serious eye irritation.

Ehtyl Alcohol	Acute toxicity oral (LD ₅₀ mg/kg)	2,001.0	Species, Rat	ATE oral (mg/kg), 2,001.0
	Acute toxicity dermal (LD ₅₀ mg/kg)	2,001.0	Species, Rabbit	ATE dermal (mg/kg), 2,001.0
	Acute toxicity Inhalation (LD ₅₀ mg/kg)	21	Species, Mouse	ATE inhalation (vapours mg/l), 21

Serious eye damage / Irritation: Slightly irritating.

Specific target organ toxicity – repeated exposure:

STOT – repeated exposure:	NOAEL 1730 MG/KG, Oral .
Target organs:	Gastro-intestinal tract Liver .
Inhalation:	Vapours in high concentrations are narcotic. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting.
Ingestion:	Ingestion of large amounts may cause unconsciousness. May cause nausea, headache, dizziness and intoxication.
Skin contact:	Repeated exposure may cause skin dryness or cracking.
Eye contact:	Irritating to eyes.
Medical symptoms:	EYES AND MUCOUS MEMBRANES. Irritation of eyes and mucous membranes. RESPIRATORY SYSTEM. Upper respiratory irritation. SKIN. Skin irritation. DIGESTIVE SYSTEM. Gastrointestinal symptoms, including upset stomach.

1,1,1,2-TETRAFLUOROETHANE	Acute toxicity Inhalation (LD ₅₀ gases ppmV)	567,000.0	Species, Rat	ATE inhalation (gases ppm), 567,000.0
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SECTION 12: Ecological information

Ecotoxicity:	Not regarded as dangerous for the environment.
Ecological information on ingredients:	Ethyl alcohol
Ecotoxicity:	The product is not expected to be hazardous to the environment

12.1 Toxicity

Acute toxicity - fish:	Not determined
Ecological information on ingredients:	Ethyl alcohol
Toxicity:	Not considered toxic to fish
Acute toxicity - fish:	Not determined. LC ₅₀ , 48 hours, 48 hours: > 100mg/l, Leuciscus idus (Golden orfe) LC ₅₀ , 96 hours: 11.000 mg/l, Fish
Acute toxicity–aquatic invertebrates:	EC ₅₀ , 48 hours: 12.34 mg/l, Daphnia magna
Acute toxicity–aquatic plants:	EC ₅₀ , hours: mg/l, Selenastrum capricornutum

1,1,1,2-TETRAFLUOROETHANE**Acute toxicity - fish:** LC₅₀, 96 hours: 450 mg/l, Onchorhynchus mykiss (Rainbow trout)**Acute toxicity-aquatic invertebrates:** LC₅₀, 48 hours: 980 mg/l, Daphnia magnaLC₅₀, 48 hours: 980 mg/l, Freshwater invertebrates**Acute toxicity-aquatic plants:** LC₅₀, 72 hours: 119 mg/l, Algae**12.2 Persistence and degradability:** The product is expected to be biodegradable**Ecological information on ingredients:** **Ethyl alcohol****Persistence and degradability:** The product is readily biodegradable**Biodegradation:** - Half-life : 1 - <10**12.3 Bioaccumulative potential:** The product is not bioaccumulating**Ecological information on ingredients:** **Ethyl alcohol****Bioaccumulative potential:** The product is readily biodegradable**Partition coefficient:** -0.031**12.4 Mobility in soil** The product is soluble in water**Ecological information on ingredients:** **Ethyl alcohol****Mobility:** The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces**12.5 Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB**12.6 Other adverse effects:** Not determined**Ecological information on ingredients:** **Ethyl alcohol****Other adverse effects:** Not Known**SECTION 13: Disposal Considerations****13.1 Waste Treatment / Disposal methods:** Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.**SECTION 14: Transport Information****14.1 UN Number**

ADR/RID, IMDG, ICAO UN 1950

14.2 UN proper shipping name

ADR/RID, IMDG, ICAO AEROSOLS

14.3 Transport hazard class(es)

ADR/RID, IMDG, ICAO class 2.1

Transport labels

**14.4 Packing group**

ADR/RID Packing Group: 5F

14.5 Environmental hazards:**Environmentally hazardous substance/marine pollutant:** No**14.6 Special precautions for user****Tunnel restriction code:** (D)**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable.

SECTION 15: Regulatory Information.**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations:** Control of Substances Hazardous to Health Regulations 2002 (as amended).**EU legislation:** Commission Regulation (EU) No 453/2010 of 20 May 2010.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Guidance: Workplace Exposure Limits EH40.**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 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.

Risk Phrases in full

R11 Highly flammable.
R12 Extremely flammable.

Hazard Statements in full

H222 Extremely flammable aerosol.
H225 Highly flammable liquid and vapour.
H229 Pressurised container: may burst if heated.
H280 Contains gas under pressure; may explode if heated.
H319 Causes serious eye irritation.