

Safety Data Sheet (SDS)

OSHA Hazard Communication Standard 29 CFR 1910.1200. Prepared to GHS
Rev03.

Reviewed on 11/11/2014

1 Identification

• **Product identifier**

• **Trade name: Positron Aerosol**

• **Product description**

Ultra High Purity Dielectric Solvent

Product Name	Part No.	Packaging	National Stock No.
Positron (A)	696-1	12 x 16 oz net Aerosol	6850-01-445-3545

• **Details of the supplier of the safety data sheet**

• **Manufacturer/Supplier:**

Ecolink

2177 Flintstone Dr, Ste. A, Tucker, GA 30085

www.ecolink.com

800-886-8240 or 770-621-8240 (8-5 EST)

email: info@ecolink.com

• **Emergency telephone number: Infotrac: 1-800-535-5053, 1-352-326-2510**

2 Hazard(s) identification

• **Classification of the substance or mixture**



GHS02 Flame

Flam. Aerosol 2 H223 Flammable aerosol.



GHS08 Health hazard

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

Eye Irrit. 2B H320 Causes eye irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

• **Label elements**

• **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

• **Hazard pictograms**



GHS02



GHS07



GHS08

(Contd. on page 2)

USA

Safety Data Sheet (SDS)

OSHA Hazard Communication Standard 29 CFR 1910.1200. Prepared to GHS Rev03.

Reviewed on 11/11/2014

Trade name: Positron Aerosol

(Contd. of page 1)

· **Signal word** *Danger*

· **Hazard-determining components of labeling:**

Distillates (petroleum), hydrotreated light (R)-p-mentha-1,8-diene

· **Hazard statements**

- H223 Flammable aerosol.*
- H315 Causes skin irritation.*
- H320 Causes eye irritation.*
- H317 May cause an allergic skin reaction.*
- H335 May cause respiratory irritation.*
- H304 May be fatal if swallowed and enters airways.*
- H412 Harmful to aquatic life with long lasting effects.*

· **Precautionary statements**

- P251 Pressurized container: Do not pierce or burn, even after use.*
- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.*
- P211 Do not spray on an open flame or other ignition source.*
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.*
- P271 Use only outdoors or in a well-ventilated area.*
- P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.*
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*
- P321 Specific treatment (see on this label).*
- P362 Take off contaminated clothing and wash before reuse.*
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.*
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.*
- P405 Store locked up.*
- 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.*

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**



· **Other hazards**

· **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

USA

(Contd. on page 3)

Safety Data Sheet (SDS)

OSHA Hazard Communication Standard 29 CFR 1910.1200. Prepared to GHS
Rev03.

Reviewed on 11/11/2014

Trade name: Positron Aerosol

(Contd. of page 2)

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**

- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

64742-47-8 Distillates (petroleum), hydrotreated light	80-90%
Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336; H227	
5989-27-5 (R)-p-mentha-1,8-diene	2-12%
Flam. Liq. 3, H226; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1, H317	
124-38-9 Carbon dioxide	2-12%
Press. Gas, H280	

4 First-aid measures

- **Description of first aid measures**

- **After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness, place patient securely in side position for transportation.

- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

- **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- **After swallowing:** Give large amounts of water. If symptoms persist consult doctor.

- **Information for doctor:**

- **Most important symptoms and effects, both acute and delayed**

No further relevant information available.

- **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**

- **Suitable extinguishing agents:**

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- **For safety reasons unsuitable extinguishing agents:** Water with full jet

- **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**

Wear protective equipment. Keep unprotected persons away.

(Contd. on page 4)

Safety Data Sheet (SDS)

OSHA Hazard Communication Standard 29 CFR 1910.1200. Prepared to GHS
Rev03.

Reviewed on 11/11/2014

Trade name: Positron Aerosol

(Contd. of page 3)

- **Environmental precautions:**
*Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers¹ surface or ground water.*
- **Methods and material for containment and cleaning up:** *Ensure adequate ventilation.*
- **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**
*Ensure good ventilation¹exhaustion at the workplace.
Open and handle receptacle with care.*
- **Information about protection against explosions and fires:**
*Do not spray on a naked flame or any incandescent material.
Keep ignition sources away - Do not smoke.
Protect from heat.
Protect against electrostatic charges.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.*
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
*Store in a cool location.
Observe official regulations on storing packagings with pressurized containers.*
- **Information about storage in one common storage facility:** *Not required.*
- **Further information about storage conditions:**
*Keep receptacle tightly sealed.
Do not gas tight seal receptacle.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.*
- **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 section 7.*
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
124-38-9 Carbon dioxide
*PEL Long-term value: 9000 mg/m³, 5,000 ppm
REL Short-term value: 54.000 mg/m³, 30,000 ppm
Long-term value: 9000 mg/m³, 5,000 ppm*

(Contd. on page 5)

USA

Safety Data Sheet (SDS)

OSHA Hazard Communication Standard 29 CFR 1910.1200. Prepared to GHS
Rev03.

Reviewed on 11/11/2014

Trade name: Positron Aerosol

(Contd. of page 4)

TLV Short-term value: 54,000 mg/m³, 30,000 ppm
Long-term value: 9,000 mg/m³, 5,000 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. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.
- **Breathing equipment:** In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure, use respiratory protective device that is independent of circulating air.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product¹ the substance¹ the preparation. Due to missing tests no recommendation to the glove material can be given for the product¹ the preparation¹ the chemical mixture.

Select glove material based on penetration times, rates of diffusion and degradation.

- **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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**
The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.
- **Eye protection:** Tightly sealed goggles or safety glasses with side shields

9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
 - **Form:** Aerosol
 - **Color:** Colorless
 - **Odor:** Citrus
 - **Odour threshold:** Not determined.
 - **pH-value:** Not determined.
- **Change in condition**
 - **Melting point/Melting range:** Not determined.
 - **Boiling point/Boiling range:** 176 - 212 °C (349-414 °F)

(Contd. on page 6)

Safety Data Sheet (SDS)

OSHA Hazard Communication Standard 29 CFR 1910.1200. Prepared to GHS
Rev03.

Reviewed on 11/11/2014

Trade name: Positron Aerosol

(Contd. of page 5)

- **Flash point:** 61 °C (142 °F)
- **Flammability (solid, gaseous):** Not applicable.
- **Ignition temperature:** 231 °C (448 °F) (448°F)
- **Decomposition temperature:** Not determined.
- **Auto igniting:** Product is not selfigniting.
- **Danger of explosion:** Not determined.
- **Explosion limits:**
 - Lower:** 0.7 Vol %
 - Upper:** 7.0 Vol %
- **Vapor pressure @ 20 °C (68 °F):** 0.52 mm Hg
- **Density @ 20 °C (68 °F):** 0.807 g/cm³ (6.73 lbs/gal)
- **Relative density** Not determined.
- **Vapor density** Not determined.
- **Evaporation rate** Not applicable.
- **Solubility in / Miscibility with Water:** Not miscible or difficult to mix.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
 - Dynamic:** Not determined.
 - Kinematic:** Not determined.
- **Solvent content:**
 - Organic solvents:** ~ 95 %
 - VOC content:** 807 g/l
- **Other information** No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability** Product is stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** High temperatures.
- **Incompatible materials:** Strong acids, strong bases, strong oxidizing agents and strong reducing agents.
- **Hazardous decomposition products:** No dangerous decomposition products known.

USA
(Contd. on page 7)

Safety Data Sheet (SDS)

OSHA Hazard Communication Standard 29 CFR 1910.1200. Prepared to GHS Rev03.

Reviewed on 11/11/2014

Trade name: Positron Aerosol

(Contd. of page 6)

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LDILC50 values that are relevant for classification:**
 - 64742-47-8 Distillates (petroleum), hydrotreated light**
 - Oral LD50 >5,000 mg/kg (rat) Dermal
 - LD50 >2,000 mg/kg (rabbit)
 - 5989-27-5 (R)-p-mentha-1,8-diene**
 - Oral LD50 4,400 mg/kg (rat)
- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant
- **Carcinogenic categories**
- **IARC (International Agency for Research on Cancer)**
5989-27-5 (R)-p-mentha-1,8-diene 3
- **NTP (National Toxicology Program)**
None of the ingredients is listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **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.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:**
Water hazard class 2 (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

(Contd. on page 8)

USA

Safety Data Sheet (SDS)

OSHA Hazard Communication Standard 29 CFR 1910.1200. Prepared to GHS
Rev03.

Reviewed on 11/11/2014

Trade name: Positron Aerosol

(Contd. of page 7)

- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **UN-Number**
- **DOT, ADR, IMDG, IATA** UN1950
- **UN proper shipping name**
- **DOT** Aerosols, flammable
- **ADR** UN1950 Aerosols
- **IMDG** AEROSOLS
- **IATA** AEROSOLS, flammable

- **Transport hazard class(es)**

- **DOT**



Limited Quantity

- **Class** 2.1
- **Label** 2.1
- **ADR**



Limited Quantity

- **Class** 2 5F Gases

(Contd. on page 9)



Safety Data Sheet (SDS)

OSHA Hazard Communication Standard 29 CFR 1910.1200. Prepared to GHS Rev03.

Reviewed on 11/11/2014

Trade name: Positron Aerosol

(Contd. of page 8)

- **Label** 2.1
- **IMDG, IATA**
- 
-  Limited Quantity
- **Class** 2.1
- **Label** 2.1
- **Packing group**
- **DOT, ADR, IMDG, IATA** Non-Regulated Material
- **Environmental hazards:**
- **Marine pollutant:** Yes
- **Special precautions for user** Warning: Gases
- **Danger code (Kemler):** -
- **EMS Number:** F-D,S-U
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **Transport/Additional information:**
- **DOT** ORM-D consumer commodity
- **UN "Model Regulation":** UN1950, Aerosols, 2.1

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**
- **Section 355 (extremely hazardous substances):**
None of the ingredients is listed.
- **Section 313 (Specific toxic chemical listings):**
None of the ingredients is listed.
- **TSCA (Toxic Substances Control Act):**
All ingredients are listed.
- **Proposition 65**
- **Chemicals known to cause cancer:**
None of the ingredients is listed.

(Contd. on page 10)

USA

Safety Data Sheet (SDS)

OSHA Hazard Communication Standard 29 CFR 1910.1200. Prepared to GHS
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Trade name: Positron Aerosol

(Contd. of page 9)

- **Chemicals known to cause reproductive toxicity for females:**
None of the ingredients is listed.
- **Chemicals known to cause reproductive toxicity for males:**
None of the ingredients is listed.
- **Chemicals known to cause developmental toxicity:**
None of the ingredients is listed.
- **Carcinogenic categories**
- **EPA (Environmental Protection Agency)**
None of the ingredients is listed.
- **TLV (Threshold Limit Value established by ACGIH)**
None of the ingredients is listed.
- **NIOSH-Ca (National Institute for Occupational Safety and Health)**
None of the ingredients is listed.
- **OSHA-Ca (Occupational Safety & Health Administration)**
Corrosive to eyes
- **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS02 GHS07 GHS08

- **Signal word** *Danger*
- **Hazard-determining components of labeling:**
Distillates (petroleum), hydrotreated light
(R)-p-mentha-1,8-diene
- **Hazard statements**
H223 Flammable aerosol.
H315 Causes skin irritation.
H320 Causes eye irritation.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H304 May be fatal if swallowed and enters airways.
H412 Harmful to aquatic life with long lasting effects.

- **Precautionary statements**

- | | |
|-----------|---|
| P251 | Pressurized container: Do not pierce or burn, even after use. |
| P210 | Keep away from heat ¹ sparks ¹ open flames ¹ hot surfaces. - No smoking. |
| P211 | Do not spray on an open flame or other ignition source. |
| P261 | Avoid breathing dust ¹ fume ¹ gas ¹ mist ¹ vapors ¹ spray. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P280 | Wear protective gloves ¹ protective clothing ¹ eye protection ¹ face protection. |
| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER or doctor ¹ physician. |

(Contd. on page 11)

Safety Data Sheet (SDS)

OSHA Hazard Communication Standard 29 CFR 1910.1200. Prepared to GHS
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Reviewed on 11/11/2014

Trade name: Positron Aerosol

(Contd. of page 10)

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

P321 *Specific treatment (see on this label).*

P362 *Take off contaminated clothing and wash before reuse.*

P304+P340 *IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.*

P312 *Call a POISON CENTER or doctor/physician if you feel unwell.*

P405 *Store locked up.*

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.*

• **National regulations:**

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

• **State Right to Know**

64742-47-8 Distillates (petroleum), hydrotreated light	80-90%
Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336; H227	
5989-27-5 (R)-p-mentha-1,8-diene	2-12%
Flam. Liq. 3, H226; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1, H317	
124-38-9 Carbon dioxide	2-12%
Press. Gas, H280	

None of the ingredients is listed.

• **Chemical safety assessment:** 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.

• **Date of preparation / last revision** 11/11/2014

• **Abbreviations and acronyms:**

ADR: Accord europeen 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

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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