

# Safety Data Sheet

*29 CFR 1910.1200*

Printing date 02/20/2013

Reviewed on 02/20/2013

## 1 Identification of the substance/mixture and of the company/undertaking

### *Product Identifier*

*Trade Name:* Air Trace Smoke Fluid

*Article Number:* Not Available

*Application of substance / preparation:* Airflow tracing

### *Details of supplier of safety data sheet:*

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## 2 Hazards identification

- *Hazard description:* Void

- *Information concerning particular hazards for human and environment:*

The product has not been classified as dangerous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).

- *Classification system:*

The classification is according to the latest edition of OSHA Hazard Communication Standard (29 CFR 1910.1200), and extended by company and literature data.

- *NFPA ratings (scale 0 - 4)*



Health = 0  
Fire = 1  
Reactivity = 0

- *HMIS-ratings (scale 0 - 4)*



Health = 0  
Fire = 1  
Reactivity = 0

## 3 Composition/information on ingredients

- *Chemical characterization:* Mixture

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

- *Dangerous components:*

57-55-6 propane-1,2-diol	<50.0%
56-81-5 glycerol	<10.0%

- *Non-Dangerous components:*

7732-18-5 water, distilled, conductivity or of similar purity	<40.0%
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## 4 First aid measures

- *After inhalation:* Supply fresh air; consult doctor in case of complaints.

- *After skin contact:*

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

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- After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: If symptoms persist consult doctor.

## 5 Firefighting measures

- Suitable extinguishing agents: Use fire fighting measures that not the environment.
- Special hazards arising from the substance or mixture No further relevant information available.
- Protective equipment: Mouth respiratory protective device.

## 6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Mouth respiratory protective device.
- Environmental precautions: Dilute with plenty of water.  
Do not allow to enter sewers/surface or ground water.
- Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

## 7 Handling and storage

- Handling: Precautions for safe handling Keep receptacles tightly sealed.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.
- Storage: Requirements to be met by storerooms and receptacles: Store in a cool location.  
Information about storage in one common storage facility:  
Store away from foodstuffs.  
Store away from flammable substances.
- Further information about storage conditions: Keep receptacle tightly sealed.

## 8 Exposure controls/personal protection

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

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

### 57-55-6 propane-1,2-diol

WEEL (USA)	10 mg/m <sup>3</sup>
EV (Canada)	155* 10 <sup>10</sup> * mg/m <sup>3</sup> , 50* ppm *vapour and aerosol; **aerosol only

### 56-81-5 glycerol

PEL (USA)	15* 5** mg/m <sup>3</sup> *total dust **respirable fraction
TLV (USA)	10* ppm *Mist
EL (Canada)	10* 3** mg/m <sup>3</sup> *mist; **mist, respirable
EV (Canada)	10 mg/m <sup>3</sup>
LMPE (Mexico)	10 mg/m <sup>3</sup> [0]

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

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- Based on the composition shown in section 3, the following measures are suggested for occupational safety measures:

- Personal protective equipment:

- General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

- Breathing equipment: Suitable respiratory protective device recommended.

- Protection of hands:



**Protective gloves**

The glove material has to be impermeable and resistant to the product/the substance/the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/the preparation/the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the 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 found out by the manufacturer of the protective gloves and has to be observed.

- Eye protection:



**Tightly sealed goggles**

In concentrations associated with visualisation, for durations <10min, no respiratory / eye protection required

## 9 Physical and chemical properties

- General Information

- Appearance:

*Form:* Liquid

*Color:* Transparent

- Odor:

*Odor threshold:* Odorless

*pH-value:* Not available

- Change in condition

*Melting point/Melting range:* Not available

*Freezing point:* Not available

*Boiling point/Boiling range:* Not available

- Flash point:

*Not available*

- Flammability (solid, gaseous):

*Not available*

- Auto-Ignition temperature:

*Not available*

- Decomposition temperature:

*Not available*

- Explosion limits:

*Lower:* Not available

*Upper:* Not available

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- Vapor pressure:	Not available
- Density:	Not available
- Relative density	Not available
- Vapour density	Not available
- Evaporation rate	Not available
- Solubility in / Miscibility with Water:	Not available
- Partition coefficient (n-octanol/water):	Not available
- Viscosity:	
Dynamic:	Not available
Kinematic:	Not available

### 10 Stability and reactivity

- Reactivity No decomposition if used according to specifications.
- Chemical stability Stable under recommended storage conditions.
- Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

### II Toxicological information

- Acute toxicity:

- LD/LC50 values that are relevant for classification:

57-83-4 propane-1,2-diol

Oral	LD50: 20000 mg/kg (rat)
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Dermal	LD50: 20800 mg/kg (rabbit)
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56-81-5 glycerol

Oral	LD50: 40900 mg/kg (mouse)
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	120000 mg/kg (rat)
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Dermal	LD50: >10000 mg/kg (rabbit)
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- Primary irritant effect:

- on the skin: Irritating effect possible

- on the eye: Irritating effect possible

- Sensitization: Sensitization possible through skin contact.

- Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations.

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

- Carcinogenic categories

IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

NTP (National Toxicology Program)

None of the ingredients is listed.

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### 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability:** No further relevant information available.
- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleaning agent:** Water, if necessary with cleansing agents.

### 14 Transport information

- UN-Number	
- DOT, IMDG, IATA	Not applicable
- UN proper shipping name	
- DOT, IMDG, IATA	Not applicable
- Transport hazard class(es)	
- DOT, ADN, IMDG, IATA	
- Class	Not applicable
- Packing group	
- DOT, IMDG, IATA	Not applicable
- Environmental hazards:	
- Marine pollutant:	No
- Special precautions for user	Not applicable.
- EMS Number:	Not applicable
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.

### 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- **Sara**
- **Section 315 (extremely hazardous substances):**  
None of the ingredients is listed.
- **Section 313 (Specific toxic chemical listings):**  
Substance is not listed.
- **None of the ingredients is listed.**

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· **TSCA (Toxic Substances Control Act):***All ingredients are listed.*· **Proposition 65:**· **Chemicals known to cause cancer:***None of the ingredients is listed.*· **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.*· **Carcinogenicity 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):***None of the ingredients is listed.*· **National regulations:**· **Water hazard class:** Water hazard class I (Self-assessment): slightly hazardous for water.

## 16 Other information

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*The contents and format of this MSDS/SDS are in accordance with 29 CFR 1910.1200(g).*

### DISCLAIMER OF LIABILITY

*The information in this MSDS/SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS/SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS/SDS information may not be applicable.*

### Abbreviations and acronyms:

*IMDG: International Maritime Code for Dangerous Goods*

*DOT: US Department of Transportation*

*IATA: International Air Transport Association*

*ACGIH: American Conference of Governmental Industrial Hygienists*

*NFPA: National Fire Protection Association (USA)*

*NHMIS: Dangerous Materials Identification System (USA)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

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