

Spray Away  
5% solution of Isopropanol  
in Ethylalcohol 80%

MATERIAL SAFETY DATA SHEET  
FOR HAZARDOUS SUBSTANCES  
acc. to  
EEC-DIRECTIVE (91/155/EEC)

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### 1. Product and manufacturer's identification

Product name	Spray Away
Chemical Composition	5% solution of Isopropanol in Ethylalcohol 80%
Manufacturer / Supplier	Trescon B.V. P.O.box 244, 2700 AE Zoetermeer (the Netherlands) Phone +31 (0)79 346 60 00 Fax +31 (0)79 346 60 22
Emergency phone	CHEMTREC 1-800-424-9300

### 2. Composition/information on ingredients

Product name	Ethanol 80%
CAS-no.	64-17-5
EU-no.	200-578-6
Annex-1 no.	603-002-00-5
MolecularFormula	C <sub>2</sub> H <sub>5</sub> OH

Product name	Isopropanol 5 %
CAS-no.	67-63-0
EU-no.	200-661-7
Annex-1 no.	-
MolecularFormula	CH <sub>3</sub> CHOHCH <sub>3</sub>

### 3. Hazards identification

Physical hazards	
Fire	highly flammable

Human health hazards	
Carcinogenic	Not classifiable as a human carcinogen
Reproductive toxic (harmful to fertility)	no
Sensitising	no
Special definition	no
Mutagenic	No

Effects of Repeated Overexposure	Long term repeated oral exposure to ethanol may result in the development of progressive liver injury with fibrosis.
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Other Health Hazards	Repeated ingestion of ethanol by pregnant mothers has been shown to adversely affect the central nervous system of the fetus, producing a collection of effects which together constitute fetal alcohol syndrome. These include mental and physical retardation, disturbances of learning, motor and language deficiencies, behavioral disorders and small size head.
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Environmental hazards	Ethanol is not dangerous for the environment and is easily degradable
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## 4. Emergency and first aid procedures

### Symptoms and health effects

Inhalation	cough, headache, dizziness High vapor concentration may cause burning sensation in nose and throat and stinging and watering in the eyes.
Eye contact	May cause irritation including stinging, tearing, and redness
Skin contact	No harmful affects with normal skin. slight irritation
Swallowing:	May cause dizziness, faintness, drowsiness decreased awareness or responsiveness, nausea, vomiting, staggering gait, lack of coordination, and coma

### Measures

Inhalation	fresh air, rest
Eye contact	copious tepid water flush for at least 15 min. Assure adequate flushing by separating the eyelids with fingers and remove contact lenses when possible. Consult a physician
Skin contact	remove contaminated clothing and wash with water and mild soap
Ingestion	wash out mouth with water and let drink water. If necessary, consult physician
General	in case of doubt, always consult a physician

**Special notes to first aiders and/or physicians:**

## 5. Fire fighting measures

<b>Hazards</b>	
Fire	highly flammable
Explosion	vapour-air mixtures are explosive
<b>Preventive measures</b>	
Fire	no open flames, no sparks and no smoking
Explosion	closed system, ventilation, explosion-proof electrical equipment and lighting
Stability	avoid contact with oxidants

### Extinguishing media

Fire	powder, alcohol-resistant foam, lots of water, carbondioxide; in case of fire in immediate surroundings all extinguishing agents permissible
Explosion	in case of fire: keep containers cool by spraying with water.

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## 6. Accidental release measures

<b>Personal precautions</b>	smoking ban, remove all possible ignition sources
<b>Ingestion</b>	do not eat, drink or smoke during work
<b>Eyes</b>	safety goggles
<b>Skin</b>	gloves (butylrubber, Neoprene)
<b>Inhalation</b>	ventilation, local exhaust, breathing protection
<b>Environmental precautions / cleaning methods</b>	
<b>Disposal/waste</b>	dam spilled substance in and carefully remove with explosionproof vacuumcleaner; recycle if possible; wash away remainder with water; flush water into sewage.

## 7. Handling and storage

<b>Storage precautions</b>	store in a well ventilated area, cool, explosion safe, away from ignition sources
<b>Conditions to avoidheat</b>	(open) fire
<b>Incompatibilities</b>	oxidizing substances
<b>Handling precautions</b>	avoid excessive inhalation of vapours
<b>Technical preventive measures</b>	keep away from ignition sources, no smoking

## 8. Exposure controls/personal protection

<b>Threshold limit values</b>	<i>Ethanol:</i> MAC-twa 8h: 1000 mg/m <sup>3</sup> (500 ppm)  <i>Isopropylalcohol:</i> MAC-twa 8h: 650 mg/m <sup>3</sup> (250 ppm)
<b>Control procedures</b>	adequate ventilation, local exhaust
<b>Personal protection</b>	
<b>Ingestion</b>	do not eat, drink or smoke during work
<b>Eyes</b>	safety goggles
<b>Skin</b>	gloves (butylrubber, Neoprene)
<b>Inhalation</b>	ventilation, local exhaust, breathing protection, in emergencies: independent breathing apparatus/ full face piece/filter type A

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## 9. Physical and chemical properties

Description	liquid with characteristic odour
Dutch Black List?	no
Physical form	fluid
Colour	colourless
Appearance Odeur	typical
Molecular mass	46,1
Threshold 1	0 - > 1000 ppm
Vapour pressure	at 20°C 58,5 mbar
Boiling point/range	78 °C
Vapour pressure	at 20°C bar
Melting point/range	-117 °C
Density (water=1)	at 20°C 0,8074
Vapour density (air=1)	at 20°C 1,6
Flash point	12 °C
Water solubility	at 20°C full
Autoignition temperature	370 °C
pH	at 20°C
Lower explosive limit	3,4 vol%
Upper explosive limit	19 vol%
Viscosity	at 20°C 1,22 mPa.s
Other data	Specific conductance: 130.000 pS/m; Heat of combustion: 26.985 kJ/kg; Log P octanol/water: -0,32

## 10. Stability and reactivity data

Reactivity	dangerous reactions with oxidants
Preventive measures	
Reactivity	keep away from/no contact with oxidants
Stability	avoid contact with oxidants

## 11. Toxicological information

Acute toxicity ( based on ethanol 96%)		
LD <sub>50</sub> (rat, oral)	mg/kg	13600
LDLo (rabbit, dermal)	mg/kg	20000
LC <sub>50</sub> (rat, inh; 4 h)	ppm	124,7
Others, namely		-
Irritation/Sensitization:		
Respiratory organs		irritant
Eye contact		Irritant
Skin contact		mild irritant
Ingestion		mild irritant
Chronic/long term toxicity :		
Affected organs		liver, male genitals
Symptoms		organ defects, reduced fertility

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## 12. Ecological information

**Biodegradability** completely degradable  
**Bioaccumulation** none

## 13 Waste disposal considerations

**Waste category** 07.01.04 (European waste list)  
**Recommended disposal/recycling procedure:** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.  
**Disposal of contaminated packaging** Empty contaminated packaging thoroughly. They can be recycled after thorough and proper cleaning.

## 14. Transport information

### ***Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)***

ADR/RID-GGVS/E Class 3  
Kemler Number 33  
UN-registry number 1987  
Classification F1  
Packaging Group II  
Label 3  
Proper shipping name 1987 ALCOHOLS, N.O.S.

### ***Maritime transport IMDG/GGV sea***

IMDG/GGV sea Class 3  
UN-registry number 1987  
EMS number 3-05  
Packaging Group II  
Label 3  
Marine pollutant No  
Proper shipping name 1987 ALCOHOLS, N.O.S.

### **Note:**

Packaging < 5 ltr = Limited Quantity (LQ)

## 15. Regulatory information

### **EEC hazard classification**

**Highly flammable**

### **Chemical Identity**

Ethanol 80%

### **R-phrases**

**R11** Highly flammable

### **S-phrases**

**S7** Keep container tightly closed

**S16** Keep away from sources of ignition — No smoking

**Note:** It is strongly recommended to check local regulations applicable to the use of this product!

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### **16. Other information**

All information and recommendations presented in this safety data sheet are based on our best knowledge as of date shown, and are solely offered to the user as a guideline to safety in handling the product under normal conditions. Follow instructions on the label and in this sheet. Any use or method of application of the product not in conformance with this data sheet and/or label instructions and information is the total responsibility of the user.

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**Replaces:**