

Material Safety Data Sheet

Aromasol 17

Version 1.00

Revision Date 03.05.2005



1. Identification of the substance/preparation and of the company/undertaking

Trade name	Aromasol 17
Use	Solvents
Company	Hitech Chemicals

2. Composition/information on ingredients

toluene

content: ≥ 10.00 - < 12.50 %

CAS-No. 108-88-3

Symbol(s) F, Xn

Index-No. 601-021-00-3

R-phrase(s) -R11 -R38 -R48/20 -R63 -R65 -R67

EG-Nr.: 203-625-9

xylene

content: ≥ 10.00 - < 12.50 %

CAS-No. 1330-20-7

Symbol(s) Xn

Index-No. 601-022-00-9

R-phrase(s) -R10 -R20/21 -R38

EG-Nr.: 215-535-7

For the full text of the R phrases mentioned in this Section, see Section 16.

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3. Hazards identification

Identification of the risks

R10	Flammable.
R38	Irritating to skin.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R63	Possible risk of harm to the unborn child.
R65	Harmful: may cause lung damage if swallowed.

4. First aid measures

General advice	<i>If you feel unwell, seek medical advice (show the label where possible).</i>
Inhalation	<i>Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. Monitor breathing, seek medical advice immediately.</i>
Skin contact	<i>Wash off immediately with plenty of water for at least 15 minutes. Call a physician immediately.</i>
Eye contact	<i>Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Call a physician immediately.</i>
Ingestion	<i>Do not induce vomiting without medical advice. Call a physician immediately.</i>

5. Fire-fighting measures

Suitable extinguishing media	<i>foam, water spray, dry powder</i>
Special protective equipment for fire-fighters	<i>Wear self-contained breathing apparatus and protective suit.</i>
Further information	<i>Cool containers / tanks with water spray.</i>

6. Accidental release measures

Personal precautions	<i>Keep people away from and upwind of spill/leak. Remove all sources of ignition. Do not breathe vapours or spray mist.</i>
Environmental precautions	<i>Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.</i>

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Methods for cleaning up Soak up with inert absorbent material and dispose of as hazardous waste.

Additional advice Never return spills in original containers for re-use.

7. Handling and storage

Handling

Safe handling advice Avoid inhalation of vapour or mist. Wear personal protective equipment.

Advice on protection against fire and explosion Keep away from heat and sources of ignition. Use only explosion-proof equipment.

Storage

Requirements for storage areas and containers Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls / personal protection

Components with workplace control parameters

NATIONAL OCCUPATIONAL EXPOSURE LIMITS

no data available

EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

Components	Type	Control parameters	Update	Basis
XYLENE, MIXED ISOMERS, PURE	TWA	221 mg/m ³	05 2003	EU Exposure Limit Values
	TWA	50 ppm	05 2003	EU Exposure Limit Values
	STEL	442 mg/m ³	05 2003	EU Exposure Limit Values
	STEL	100 ppm	05 2003	EU Exposure Limit Values

Engineering measures

Provide sufficient air exchange and/or exhaust in work rooms.

Personal protective equipment

Respiratory protection Respirator with combination filter for vapour/particulate.

Hand protection solvent-resistant gloves

Eye protection safety glasses with side-shields

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Skin and body protection	protective suit, safety shoes
Hygiene measures	Wash hands before breaks and immediately after handling the product.
Protective measures	Wear suitable protective equipment.

9. Physical and chemical properties

Form	liquid
Colour	colourless
Odour	No information available.
pH	not applicable
Melting point/range	-5.5 °C
Boiling point/range	167 °C
Flash point	41 °C
Ignition temperature	203 °C
Lower explosion limit	1.1 %(V)
Upper explosion limit	7 %(V)
Vapour pressure	3 hPa; 20 °C
Density	0.78 g/cm ³
Water solubility	immiscible, insoluble
Solubility in other solvents	Medium: Diethylether; completely soluble
Viscosity, dynamic	0.62 mPa.s
Relative vapour density	5.17

10. Stability and reactivity

Materials to avoid	oxidizing agents, reducing agents
Hazardous decomposition products	Carbon oxides

11. Toxicological information

Acute oral toxicity	Toluene: LD50 rat: 5,000 mg/kg; literature value
	Xylenes: LD50 rat: 4,300 mg/kg; literature value
	Xylenes:

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	LD50 mouse: 2,119 mg/kg; literature value
Acute inhalation toxicity	Toluene: LC50 mouse: 5,320 mg/l; literature value
	Xylenes: LC50 rat: 50,000 mg/l; literature value; 4 h
Acute dermal toxicity	Toluene: LD50 rat: 12,124 mg/kg; literature value
	Xylenes: LD50 rabbit: > 17,000 mg/kg; literature value

12. Ecological information

Ecotoxicity effects

Toxicity to fish

Toluene:
LC50 *Pimephales promelas*: 34.27 mg/l; 96 h; literature value

Toluene:
LC50 *Poecilia reticulata*: 59.3 mg/l; 96 h; literature value

Toluene:
LC50 *Cyprinodon variegatus*: 277 mg/l; 96 h; literature value

Xylenes:
LC50 *Salmo gairdneri*: 13.5 mg/l; 96 h; literature value

Xylenes:
Pimephales promelas: 42 mg/l; 96 h; literature value

Toxicity to daphnia

Toluene:
LC50 *Daphnia magna*: 313 mg/l; 48 h; literature value

13. Disposal considerations

Product Dispose of in accordance with local regulations.

Contaminated packaging Store containers and offer for recycling of material when in accordance with the local regulations.

14. Transport information

ADR UN-No: 3295; Class: 3; Packaging group: II; F1; Description of the goods: HYDROCARBONS, LIQUID, N.O.S. (toluene)

RID UN-No: 3295; Class: 3; Packaging group: II; F1; Description of the goods: HYDROCARBONS, LIQUID, N.O.S. (toluene)

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ADNR	<i>UN-No: 3295; Class: 3; Packaging group: II; Description of the goods: HYDROCARBONS, LIQUID, N.O.S. (toluene)</i>
IMDG	<i>UN-No: 3295; Class: 3; EmS: F-E, S-D; Packaging group: II; Description of the goods: HYDROCARBONS, LIQUID, N.O.S. (toluene)</i>
ICAO/IATA	<i>UN-No : 3295; Class: 3; Packaging group: II; Description of the goods: Hydrocarbons, liquid, n.o.s. (toluene)</i>

15. Regulatory information

Labelling

Symbol(s)	<i>Xn: Harmful</i>
R-phrase(s)	<i>R10: Flammable. R38: Irritating to skin. R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation. R63: Possible risk of harm to the unborn child. R65: Harmful: may cause lung damage if swallowed.</i>
S-phrase(s)	<i>S 9: Keep container in a well-ventilated place. S36/37: Wear suitable protective clothing and gloves. S43: In case of fire, use .?. S60: This material and its container must be disposed of as hazardous waste. S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.</i>
Hazardous components which must be listed on the label	<i>toluene</i>

16. Other information

Text of R-phrases referred to under headings 2 and 3:

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R10	Flammable.
R11	Highly flammable.
R20/21	Harmful by inhalation and in contact with skin.
R38	Irritating to skin.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R63	Possible risk of harm to the unborn child.
R65	Harmful: may cause lung damage if swallowed.
R67	Vapours may cause drowsiness and dizziness.

This MSDS summarises at the date of issue our best knowledge of the health, safety and environmental hazard information related to the product, and in particular how to safely handle, use, store and transport the product in the workplace. Since we cannot anticipate or control conditions under which the product may be handled, used, stored or transported, each user must, prior to usage, review this MSDS in the context of how the user intends to handle, use, store or transport the product in the workplace and beyond, and communicate such information to all relevant parties. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

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