

ETHANOL 99.9 DB (SCP)

1. Chemical product and company identification

A. Trade name : Ethanol 99.9 DB (SCP)
B. Synonyms : Ethanol 99.9 DB (SCP)
Product code : 2019
Use : Solvent

C. Manufacturer / Supplier / Distributor Information

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2. HAZARDS IDENTIFICATION

Identification of the riskss
R11 Highly Flammable

3. COMPOSITION/ ONFORMATION ON INGREDIENTS

Preparation on the base:

Ethanol: Ethyl alcohol
Contents: 99.90 %WW

CAS-No. : 64-17-5 **Index-No.** : 603-002-00-5 **EC-No.** : 200-578-6
Symbol(s) : F **R-phrased(s)** : -R11

For the full text of the R-phrase mentioned in this selection, Section 16.

4. FIRST AID MEASURES

Inhalation: Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician.

Skin contact: Wash off immediately with plenty of running water for at least 15 minutes. If skin irritation persist, call a physician

Eye contact: Rinse immediately with plenty of running water, also under the eyelids, for atleast 15minutes. Remove contact lenses. If eye irritation persist, consult a specialist.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Call a physician immediately.

DISCLAIMER

This information contained in the data sheet is to the best of our knowledge correct and up to date. Under well-defined conditions. Its accuracy or suitability under the actual conditions of any independent use is not guaranteed and must be determined by the user. All advice given about this product is given in good faith. Since as we have no control over conditions of substrate, manufacturer and seller cannot accept any liability in connection with the use of the product relative to coverage, performance, injury, or damage, unless we specify in writing to do so. The information in this data sheet is subject to change without prior notice and it is the user responsibility to ensure it is current. For further information and advice please contact RAR RESIN Technical Service Department.

5. FIRE FIGHTING MEASURES

| | |
|---|---|
| Suitable extinguishing media: | Water spray, Dry powder, Alcohol- resistant foam. |
| Specific hazards during fire fighting: | Flash back possible over considerable distance. Do not allow run-off from fire fighting to enter drains or water courses. |
| Special protective equipment: for firefighters | In the event of fire, wear self- contained breathing apparatus. Use personal protective equipment. |
| Further Information: | Cool containers / tanks with water spray. |

6. ACCIDENTAL RELEASE MEASURES

| | |
|-----------------------------------|--|
| Personal Precautions: | Keep people away from and unwind of spill/ leak. Remove all sources of ignition. Do not breathe vapours or spray mist. |
| Environmental precautions: | Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. |
| 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: | Do not breathe vapours or spray mist. Wear personal protective equipment. |
| Advice on protection: against fire and explosion | Keep away from open flames, hot surfaces and sources of ignition. Use explosion- proof equipment. |
| Requirements for storage: areas and containers | Keep containers tightly closed in a cool, well-ventilated place. |

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Components with workplace control parameters

NATURAL OCCUPATIONAL EXPOSURE LIMITS:

Contains no substance with occupational exposure exposure limit values.

EUROPEAN OCCUPATIONAL EXPOSURE LIMITS:

Contains no substance with occupational exposure exposure limit values.

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Engineering measures:

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

Personal protective equipment**Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection:

Gloves suitable for permanent contact

- Material: butyl- rubber
- Break through time: 4 h
- material thickness: 0.5 mm

Eye protection:

Safety glasses with side-shields

Skin and body protection:

Safety shoes, Protective suit

Hygiene measures:

Wash hands before breaks and immediately after handling the product.

Protective measures:

Wear suitable equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-------------------------------------|---|
| Form | : Liquid |
| Colour | : Colourless |
| pH | : Neutral |
| Melting point/ range | : - 114.1 °C |
| Boiling point/ boiling range | : 78.4 °C |
| Flash point | : 16 °C ; closed cup |
| Autoignition temperature | : 363 °C |
| Lower explosion limit | : 3.3 % (V) |
| Upper explosion limit | : 19 % (V) |
| Density | : 0.791 g/cm ³ ; 20 °C |
| Water solubility | : Completely miscible, Completely soluble |

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Solubility in other solvents : Medium: Diethylether; Completely soluble
Solubility in other solvents : Medium: Methanol; Completely soluble
Viscosity, dynamic : 1.41 mPa.s
Relative vapour density : 1.6

10. STABILITY AND REACTIVITY

Materials to avoid : Oxidizing agents, Acids and bases
Hazardous decomposition products : Carbon oxides
Thermal decomposition : No decomposition if used as directed.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : Ethanol
: LD50 rat: 7,060 mg/kg; literature value
Acute inhalation toxicity : Ethanol
: LC50 rat: 66,000 mg/l; literature value; 4 h
Acute dermal toxicity : Ethanol
: LDLo rabbit: 20,000 mg/l; literature value;
Skin irritation : No data available
Eye irritation : No data available
Sensitisation : No data available
Genotoxicity in vitro : No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity effects
Toxicity to fish : Ethanol
: LC50 Pimephales promelas: 15,300 mg/l ; 96 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 number: 1170; Class: 3; Packaging group: II; F1 Description of the goods: ETHANOL
RIL : UN number: 1170; Class: 3; Packaging group: II; F1 Description of the goods: ETHANOL
ADNR : UN number: 1170; Class: 3; Packaging group: II; F1 Description of the goods: ETHYL ALCOHOL SOLUTION
IMDG : UN number: 1170; Class: 3; EmS: F-E, S-D Packaging group: II; Description of the goods: ETHANOL
ICAO/ IATA : UN number: 1170; Class: 3; Packaging group: II; Description of the goods: ETHANOL

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15. REGULATORY INFORMATION

LABELLING



Regulatory base

Symbol(s)

R- phrase(s)

S- phrase(s)

: 67/ 548/ EEC

: F: Highly flammable

: R11: Highly flammable

: S 7 : Keep container tightly closed.

S16 : Keep away from sources of ignition- No smoking.

S23 : Do not breathe vapour.

S33 : Take precautionary measures against static discharges.

S60 : This material and its container must be disposed of as hazardous waste.

Ethanol; Ethyl alcohol

Hazardous components which be listed on the label

16. Other information

Full text of R-phrases referred to under sections 2 and 3

R11 Highly flammable.

All reasonable efforts were exercised to compile this SDS in accordance with ISO 11014 and ANSIZ400.1.1993. The SDS provides information regarding the health, safety and environmental hazards, at the date of issue, to facilitate the safe receipt, use and handling of the product in the workplace. Since RAR Resin & Chemical Industries and its subsidiaries cannot anticipate or control all conditions under which the product may be handled, used and received in the workplace, it remains the obligation of each user, receiver or handler to, prior to usage, review this SDS in the context within which the product will be received, handled or used in the workplace. The user, handler or receiver must ensure that the necessary mitigating measures are in place as regards health and safety. This does not substitute the need or requirement for any relevant risk assessments to be conducted. It further remains the responsibility of the receiver, handler or user to communicate such information to all relevant parties that may be involved in the receipt, use or handling of the product.

Although all reasonable efforts were exercised in the compilation of this SDS, RAR Resin & Chemical Industries does not expressly warrant the accuracy or assume any liability for the incompleteness of the information contained herein or any advice given. The product is sold and risk passes in accordance with the specific terms and conditions of sale.

The MSDS was created by: F. SHAI

The MSDS was approved by: M.HUYSE