



Trade name: Torch cooling liquid

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

Product details:

Part number:

40,0009,0046

40,0009,0075

Use of the substance/preparation:

Coolant for Fronius welding systems

Manufacturer/Supplier:

Fronius International GmbH
Günter Fronius Straße 1
A-4600 Wels-Thalheim
Phone.: +43 / (0)7242 / 241-0
Fax: +43 / (0)7242 / 241-3940

Office to contact for information:

TSI (TechSupport International)
Phone.: +43 / (0)7242 / 241-3440
Fax: +43 / (0)7242 / 241-3930
e-mail: welding.techsupport@fronius.com
www.fronius.com

Emergency hotline:

Austrian Anti-Poison Center +43 / (0)1 / 4064343

2. Composition/Information on the ingredients

Chemical characterization:

Description:

Ethanol in aqueous solution

Dangerous constituents:

app. 23% / Ethanol / F; R11 / CAS: 64-17-5, EINECS: 200-578-6

app. 0,2% / 1-butanone (methyl ethyl ketone) / F, Xi; R11, R36, R66, R67 / CAS: 78-93-3,
EINECS: 201-159-0

app. 76,8% / water / CAS: 7732-18-5, EINECS: 231-791-2

Additional information:

For the wording of the mentioned hazard notes see section 16.

3. Possible hazards

Hazards identification

flammable

Information concerning particular hazards for human and environment:

R 10 Flammable

Classification system:

The classification is in accordance with the current EC lists. Further it is supplemented with information from technical literature and company information.

4. First-aid measures

After inhalation:

No inhalation can occur during activities that are in keeping with the intended use

After skin contact:

Drench with water

After eye contact:

Drench with water

After swallowing:

Drink plenty of water, seek medical advice in the case of sickness

5. Fire-fighting measures

Suitable extinguishing agents:

No special extinguishing agent required. Use fire fighting measures that suit the environment.

For safety reasons unsuitable extinguishing agents:

None

Special exposure hazards arising from the substance or preparation itself, combustion products or resulting gases:

None

Special protective equipment for fire-fighters:

No special measures required

6. Accidental release measures

Person-related safety precautions

Avoid skin and eye contact

Measures for environmental protection:

Do not allow undiluted material to enter drains, sewers or watercourses

Measures for cleaning/collecting:

Clean with water and commercial detergent

7. Handling and storage

Handling:**Information for safe handling:**

Avoid contact with eyes or skin. Ensure good ventilation at the workplace.

Storage**Conditions required for storage rooms and vessels:**

Keep container tightly sealed. Store at room temperature.

8. Exposure controls and personal protection

Components with limit values that require monitoring at the workplace:

Ethanol: TLV 1000 ppm (average per day)

1-butanone: TLV 100 ppm (average per day)

Personal protective equipment:**Respiratory protection:**

Use respiratory protection equipment in case aerosols or vapors evolve or exposure limits are exceeded. Recommend respirator: Gas filter type A.

Protection of hands:

Not required

Eye protection:

Wear safety goggles

Body protection:

Not required

9. Physical and chemical properties

General information:

Appearance: Liquid, colourless

Odour: Alcohol-like

Flashpoint: 32°C (does not support combustion)**Explosion hazard:** 1.8 – 15 percent by volume (pure ethanol)**Vapour pressure:** not determined**Density at 20°C** approx. 0.96 (at 20 degrees Celsius)**Solubility in / miscibility with water:** fully miscible**PH value at 20°C:** 7-8**Conductivity:** 150µS/cm

10. Stability and reactivity

Conditions to avoid: High temperature**Hazardous reactions:** none**Dangerous products of decomposition**

No hazardous materials are produced upon decomposition during intended use (see fire-fighting measures)

11. Toxicological information**Acute toxicity:**

Not known

Additional toxicological information:

Special effects to certain components

1-butanone	LD ₅₀ (oral, rat) 2737 mg/kg
Pure ethanol	LD ₅₀ (oral, rat) 7060 mg/kg
	LC ₅₀ (inhalative, mouse) 39 mg/l

12. Ecological information**Ecotoxicity:**

Fish LC50 (48h): 32000mg/l (calculated)

Pseudomonas putida L₀EC (16h): 24000 mg/l (calculated)Daphnia EC₅₀ (9d): 56-104 mg/l**Persistence und degradability:**BSB₅: 1350 mg O₂/g (denaturated ethanol, undiluted)CSB: 1800 mg O₂/g (denaturated ethanol, undiluted)

Easily degradable

General information:

No adverse effects arising from proper use

13. Disposal considerations**Product:****Recommendation:**

Do not dispose of together with household waste. Do not allow product to reach sewage system.

Waste code number:

14 06 03

Uncleaned packagings:

Recommendation: Dispose of according to official regulations.

14. Transport information**Land transport ADR/RID and GGVS/GGVE (border-crossing/national):**

Alcoholic solutions up to 24% are not subject to the regulations.

Sea transport IMDG/GGVSea:

Alcoholic solutions up to 24% are not subject to the regulations.

Air transport ICAO-TI and IATA-DGR:

Alcoholic solutions up to 24% are not subject to the regulations.

15. Austrian and EU regulations**Labelling acc. to EEC directives:****Identification letter and hazard designation of product:****Hazard-determining components of labelling:**

Ethanol and butanone

Risk phrases

R10 flammable

Safety phrases

S2 Keep out of the reach of children

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S29/56 Do not empty into drains; dispose of this material and its container at hazardous or special waste collection point.

S46 If swallowed, seek medical advice immediately and show this container or label.

National regulations;**Water hazard class:**

WGK 1 (self classification) weak hazard for waters

16. Other information

The information given in this material safety data sheet are valid for the mentioned product only. It may no longer apply if the product is processed or mixed with other substances. This information is based on our present knowledge and is intended to describe the product with a view to the safety precautions to take.

Relevant risk phrases

R11 highly flammable

R36 irritating to eyes

R66 Repeated exposure may cause skin dryness or cracking

R67 Vapours may cause drowsiness and dizziness