SPOAL P

Waldeck GmbH & Co KG

Safety Data Sheet



according to Regulation (EC) No 1907/2006

Triacid solution, Ehrlich

Revision date: 21.04.2017 Product code: 2C-134 Page 1 of 11

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Triacid solution, Ehrlich

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

Use as laboratory reagent

1.3. Details of the supplier of the safety data sheet

Company name: Waldeck GmbH & Co KG

Division Chroma

Street: Havixbecker Str. 62
Place: D-48161 Münster

Post-office box: 410180

D-48065 Münster

Telephone: +49(0)180/2247662 Telefax: +49(0)180/1247662

Responsible Department: Labor

Mo. - Do.: 08.00 - 17.00 Uhr, Fr.: 08.00 - 15.00 Uhr

1.4. Emergency telephone +49(0)180/2247662

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Flammable liquid: Flam. Liq. 3
Acute toxicity: Acute Tox. 3
Acute toxicity: Acute Tox. 3
Acute toxicity: Acute Tox. 4
Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Carcinogenicity: Carc. 2

Specific target organ toxicity - single exposure: STOT SE 1

Hazard Statements:

Flammable liquid and vapour. Toxic in contact with skin.

Toxic if inhaled.

Harmful if swallowed.

Causes skin irritation.

Causes serious eye irritation. Suspected of causing cancer.

Causes damage to organs.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

methanol Methyl green

Signal word: Danger



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Pictograms:







Hazard statements

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H311+H331 Toxic in contact with skin or if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.
 H351 Suspected of causing cancer.
 H370 Causes damage to organs.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P241 Use explosion-proof electrical/ventilating/lighting equipment.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P330 Rinse mouth.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures



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Hazardous components

| CAS No | Chemical name | | | | |
|-----------|--|---------------------------|----------------------------------|-------------|--|
| | EC No | Index No | REACH No | | |
| | Classification according to Regulati | on (EC) No. 1272/2008 [| CLP] | | |
| 67-56-1 | methanol | | | 30 - < 35 % | |
| | 200-659-6 | | | | |
| | Flam. Liq. 2, Acute Tox. 3, Acute To | ox. 3, Acute Tox. 3, STOT | SE 1; H225 H301 H311 H331 H370 | | |
| 56-81-5 | Glycerol anhydrous | | | 10 - < 15 % | |
| | 200-289-5 | | | | |
| | | | | | |
| 7114-03-6 | Methyl green | 1 - < 5 % | | | |
| | 230-415-4 | | | | |
| | Carc. 2, Skin Corr. 1B, Eye Irrit. 2, | STOT SE 3, Aquatic Chr | onic 2; H351 H314 H319 H335 H411 | | |
| 3244-88-0 | Acid Fuchsin | | | 1 - < 5 % | |
| | 221-816-5 | | | | |
| | Skin Irrit. 2, Eye Irrit. 2, STOT SE 3 | ; H315 H319 H335 | · | | |
| 1936-15-8 | Orange G | | | < 1 % | |
| | 217-705-6 | | | | |
| | | | | | |

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down.

After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. Call a physician immediately.

After contact with skin

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. Call a physician immediately.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

Rinse mouth immediately and drink plenty of water. Induce vomiting when the affected person is not unconscious. Medical treatment necessary.

4.2. Most important symptoms and effects, both acute and delayed

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2), Foam, Extinguishing powder.

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Unsuitable extinguishing media

Water.

5.2. Special hazards arising from the substance or mixture

Flammable. Vapours can form explosive mixtures with air.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Danger of explosion

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Advice on storage compatibility

Do not store together with: Oxidising agent. Pyrophoric or self-heating substances.

Further information on storage conditions

storage temperature: at room temperature

7.3. Specific end use(s)

Use as laboratory reagent

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m³ | fibres/ml | Category | Origin |
|---------|----------------|-----|-------|-----------|---------------|--------|
| 56-81-5 | Glycerol, mist | - | 10 | | TWA (8 h) | WEL |
| | | - | - | | STEL (15 min) | WEL |
| 67-56-1 | Methanol | 200 | 266 | | TWA (8 h) | WEL |
| | | 250 | 333 | | STEL (15 min) | WEL |

8.2. Exposure controls









Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

Eye/face protection

Suitable eye protection: goggles.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: dark red
Odour: characteristic

Test method

pH-Value: not determined

Changes in the physical state

Melting point:

Initial boiling point and boiling range:

65 °C

Flash point:

35 °C

Flammability

Solid: not applicable
Gas: not applicable

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Lower explosion limits: 6 vol. %
Upper explosion limits: 50 vol. %
Ignition temperature: 400 °C

Auto-ignition temperature

Solid: not applicable
Gas: not applicable

Decomposition temperature: not determined

Oxidizing properties

Not oxidizing.

Vapour pressure: not determined

Density: not determined

Water solubility: insoluble

Solubility in other solvents

not determined

Partition coefficient: not determined

Vapour density: not determined

Evaporation rate: not determined

9.2. Other information

Solid content: not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Oxidising agent, Hydrogen peroxide, Nitric acid

Exothermic reaction with: Acid halides, Reducing agent, Acid

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.

10.5. Incompatible materials

Plastic articles

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

ATEmix calculated

ATE (oral) 333,3 mg/kg; ATE (dermal) 1000,0 mg/kg; ATE (inhalative vapour) 10,00 mg/l; ATE (inhalative aerosol) 1,667 mg/l



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Acute toxicity

| CAS No | Chemical name | | | | | |
|-----------|-------------------------|---------------|----------|---------|---------------------------------|--------|
| | Exposure route | Dose | | Species | Source | Method |
| 67-56-1 | methanol | | | | | |
| | oral | LD50 mg/kg | 5628 | Rat | | |
| | dermal | LD50 mg/kg | 17100 | Rabbit | | |
| | inhalative (4 h) vapour | LC50 mg/l | 85,26 | Rat | Irritation to respiratory tract | |
| | inhalative aerosol | ATE | 0,5 mg/l | | | |
| 56-81-5 | Glycerol anhydrous | | | | | |
| | oral | LD50 mg/kg | 12600 | Rat | | |
| | dermal | LD50 mg/kg | 18700 | Rabbit | | |
| 1936-15-8 | Orange G | | | | | |
| | oral | LD50 mg/kg | > 3000 | Rat | | |

Additional information on tests

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP]. Special hazards arising from the substance or mixture!

SECTION 12: Ecological information

12.1. Toxicity

The product is not: Ecotoxic.

| CAS No | Chemical name | | | | | | |
|---------|--------------------------|--------------|--------|-----------|-----------------------------------|--------|--------|
| | Aquatic toxicity | Dose | | [h] [d] | Species | Source | Method |
| 67-56-1 | 6-1 methanol | | | | | | |
| | Acute fish toxicity | LC50 mg/l | 15400 | | Lepomis macrochirus (Bluegill) | | |
| | Acute crustacea toxicity | EC50 mg/l | >10000 | | Daphnia magna (Big water flea) | | |
| • | Acute bacteria toxicity | (6600 mg/ | 1) | | | | |

12.2. Persistence and degradability

The product has not been tested.

| CAS No | Chemical name | | | |
|---------|---|-------|----|--------|
| | Method | Value | d | Source |
| | Evaluation | | | |
| 67-56-1 | methanol | | | |
| | OECD 301D/ EEC 92/69/V, C.4-E | 99 % | 30 | |
| | Readily biodegradable (according to OECD criteria). | | | |

12.3. Bioaccumulative potential

The product has not been tested.



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Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|---------|---------------|---------|
| 67-56-1 | methanol | -0,77 |

12.4. Mobility in soil

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The product has not been tested.

12.5. Results of PBT and vPvB assessment

The product has not been tested.

12.6. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

Contaminated packaging

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: UN 2929

14.2. UN proper shipping name: TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S. (ENTH. METHANOL)

14.3. Transport hazard class(es):6.114.4. Packing group:IIHazard label:6.1+3



Classification code: TF1
Special Provisions: 274
Limited quantity: 100 mL
Excepted quantity: E4
Transport category: 2
Hazard No: 63
Tunnel restriction code: D/E

Inland waterways transport (ADN)

14.1. UN number: UN 2929

14.2. UN proper shipping name: TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S. (ENTH. METHANOL)

14.3. Transport hazard class(es):6.114.4. Packing group:IIHazard label:6.1+3



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Classification code: TF1
Special Provisions: 274 802
Limited quantity: 100 mL
Excepted quantity: E4

Marine transport (IMDG)

14.1. UN number: UN 2929

14.2. UN proper shipping name: TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S. (ENTH. METHANOL)

14.3. Transport hazard class(es):6.114.4. Packing group:IIHazard label:6.1+3



Special Provisions: 274
Limited quantity: 100 mL
Excepted quantity: E4
EmS: F-E, S-D

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 2929

14.2. UN proper shipping name: TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S. (CONT. METHANOL)

14.3. Transport hazard class(es):6.114.4. Packing group:IIHazard label:6.1+3



Special Provisions:

Limited quantity Passenger:

Passenger LQ:

Excepted quantity:

A4 A137

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IATA-packing instructions - Passenger: 654
IATA-max. quantity - Passenger: 5 L
IATA-packing instructions - Cargo: 662
IATA-max. quantity - Cargo: 60 L

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information

2010/75/EU (VOC): 30 % 2004/42/EC (VOC): 30 %

Information according to 2012/18/EU H2 ACUTE TOXIC

(SEVESO III):

Additional information: P5c

Additional information



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Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile

work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or

nursing mothers.

Water contaminating class (D): 2 - water contaminating

Skin resorption/Sensitization: Permeates easily through outer skin and causes poisoning.

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

H411

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

| Classification | Classification procedure |
|---------------------|--------------------------|
| Flam. Liq. 3; H226 | On basis of test data |
| Acute Tox. 3; H311 | Calculation method |
| Acute Tox. 3; H331 | Calculation method |
| Acute Tox. 4; H302 | Calculation method |
| Skin Irrit. 2; H315 | Calculation method |
| Eye Irrit. 2; H319 | Calculation method |
| Carc. 2; H351 | Calculation method |
| STOT SE 1; H370 | Calculation method |

Relevant H and EUH statements (number and full text)

| H225 | Highly flammable liquid and vapour. |
|-----------|---|
| H226 | Flammable liquid and vapour. |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H311 | Toxic in contact with skin. |
| H311+H331 | Toxic in contact with skin or if inhaled. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H335 | May cause respiratory irritation. |
| H351 | Suspected of causing cancer. |
| H370 | Causes damage to organs. |

Toxic to aquatic life with long lasting effects.



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Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singulary responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)