

Flux-Remover

Print date: 23.02.2015

Product code: 107

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

1.1. Product identifier

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

1.3. Details of the supplier of the safety data sheet

| Company name: | Ersa GmbH | |
|-------------------------------------|-------------------------------|-------------------------------|
| Street: | Leonhard-Karl-Strasse 24 | |
| Place: | D-97877 Wertheim | |
| Telephone: | +49 (0) 9342 8000 | Telefax: +49 (0) 9342 8001009 |
| e-mail: | info@ersa.de | |
| Internet: | www.ersa.de | |
| Responsible Department: | Produktsicherheit | |
| 1.4. Emergency telephone number: | +49 (0) 9342 8000 Mo Do. 8:00 | - 16:30 Fr. 8:00 - 14:00 |

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Indications of danger: F+ - Extremely flammable, Xi - Irritant, N - Dangerous for the environment R phrases: Extremely flammable. Irritating to eyes and respiratory system. May cause sensitisation by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Vapours may cause drowsiness and dizziness.

GHS classification

Hazard categories: Flammable gas: Flam. Gas 1 Gases under pressure: Liquefied gas Serious eye damage/eye irritation: Eye Irrit. 2 Specific target organ toxicity - single exposure: STOT SE 3 Hazardous to the aquatic environment: Aquatic Chronic 2 Hazard Statements: Extremely flammable aerosol. Pressurised container: May burst if heated. May cause respiratory irritation. Causes serious eye irritation. Toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazardous components which must be listed on the label



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according to Regulation (EC) No 1907/2006

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Print date: 23.02.2015 Product code: 107 Page 2 of 8 Hazard statements H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated. H335 May cause respiratory irritation. H319 Causes serious eve irritation. H411 Toxic to aquatic life with long lasting effects. **Precautionary statements** P410+P412 Protect from sunlight. Do no expose to temperatures exceeding 50 °C/122 °F. P273 Avoid release to the environment. P271 Use only outdoors or in a well-ventilated area. Do not pierce or burn, even after use. P251 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

| EC No | Chemical name | Quantity |
|------------------|--|----------|
| CAS No | Classification | |
| Index No | GHS classification | |
| REACH No | | |
| | Solvent naphta lightSolvent naphta lightSolvent naphta lightSolvent naphta lightSolvent naphta lightSolvent naphta lightSolvent naphta light | 25-50% |
| 64742-95-6 | Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R10-37-51-53-65 | |
| | Flam. Liq. 3, STOT SE 3, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H226 H335 H336 H304 H411 | |
| 200-661-7 | propan-2-ol; isopropyl alcohol; isopropanol | 25-50% |
| 67-63-0 | F - Highly flammable, Xi - Irritant R11-36-67 | |
| 603-117-00-0 | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 | |
| 204-658-1 | n-butyl acetate | 10-25% |
| 123-86-4 | R10-66-67 | |
| 607-025-00-1 | Flam. Liq. 3, STOT SE 3; H226 H336 | |
| 203-539-1 | 1-Methoxy-2-propanol | 5-10 % |
| 107-98-2 | F - Highly flammable, Xn - Harmful, Xi - Irritant R11-22-36/37/38 | |
| | Flam. Liq. 3, STOT SE 3; H226 H336 | |
| 01-2119457435-35 | | |
| 203-714-2 | Dimethoxymethane | 2,5-10% |
| 109-87-5 | F - Highly flammable, Xi - Irritant R11-19-36 | |
| | Flam. Liq. 2, Eye Irrit. 2; H225 H319 | |
| 01-2119664781-31 | | |
| 204-696-9 | Carbondioxide | 2,5-10% |
| 124-38-9 | | |
| | Compressed gas; H280 | |

Full text of R and H phrases: see Section 16.

SECTION 4: First aid measures



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4.1. Description of first aid measures

After inhalation

Provide fresh air. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After contact with skin

After contact with skin, wash immediately with: Water. Change contaminated clothing.

After contact with eyes

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

After ingestion

If swallowed, mmediately drink: Water.

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

No data available

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2). Foam. Extinguishing powder.

Unsuitable extinguishing media

Water with tenside additive. Water.

5.2. Special hazards arising from the substance or mixture

Combustible. Vapours may form explosive mixtures with air. Heating causes rise in pressure with risk of bursting.

5.3. Advice for firefighters

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

Additional information

Suppress gases/vapours/mists with water spray jet. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Provide adequate ventilation. Wear a self-contained breathing apparatus and chemical protective clothing.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Explosion hazard.

6.3. Methods and material for containment and cleaning up

Ventilate affected area.

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.

7.2. Conditions for safe storage, including any incompatibilities



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Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from sources of ignition. - No smoking.

Advice on storage compatibility

Do not store together with: Material, rich in oxygen, oxidizing.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m³ | fibres/ml | Category | Origin |
|----------|----------------------|-------|-------|-----------|---------------|--------|
| 107-98-2 | 1-Methoxypropan-2-ol | 100 | 375 | | TWA (8 h) | WEL |
| | | 150 | 560 | | STEL (15 min) | WEL |
| 123-86-4 | Butyl acetate | 150 | 724 | | TWA (8 h) | WEL |
| | | 200 | 966 | | STEL (15 min) | WEL |
| 124-38-9 | Carbon dioxide | 5000 | 9150 | | TWA (8 h) | WEL |
| | | 15000 | 27400 | | STEL (15 min) | WEL |
| 109-87-5 | Dimethoxymethane | 1000 | 3160 | | TWA (8 h) | WEL |
| | | 1250 | 3950 | | STEL (15 min) | WEL |
| 67-63-0 | Propan-2-ol | 400 | 999 | | TWA (8 h) | WEL |
| | | 500 | 1250 | | 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. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.

Eye/face protection

Tightly sealed safety glasses.

Hand protection

DIN EN 374 Tested protective gloves are to be worn: Butyl rubber. 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

Protective clothing:

Respiratory protection

In case of inadequate ventilation wear respiratory protection.



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Test method

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:AerosolColour:colourlessOdour:characteristic

| Changes in the physical state | | |
|--|------------|--|
| Initial boiling point and boiling range: | 82,4 °C | |
| Flash point: | <0 °C | |
| Lower explosion limits: | 1,2 vol. % | |
| Upper explosion limits: | 12 vol. % | |
| Ignition temperature: | 270 °C | |
| Vapour pressure: (at 20 °C) | 40 hPa | |
| Density (at 20 °C): | 0,84 g/cm³ | |
| Solvent content: | 95% | |
| | | |

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

No data available

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

Keep away from heat. Ignition hazard.

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

No data available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Irritation and corrosivity

Irritating to eyes. Following inhalation: Lung irritation. Coughing. shortage of breath. After skin contact: Irritant.

Additional information on tests

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Further information

Do not allow to enter into surface water or drains. The classification was carried out according to the



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calculation method of the Preparations Directive (1999/45/EC).

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

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

Waste disposal number of waste from residues/unused products

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing dangerous substances Classified as hazardous waste.

Waste disposal number of contaminated packaging

150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

| 14.1. UN number: | UN1950 |
|--|----------------------|
| <u>14.2. UN proper shipping name:</u> | AEROSOLS |
| 14.3. Transport hazard class(es): | 2 |
| | _ |
| Hazard label: | 2.1 |
| | |
| | |
| | 2 |
| Classification code: | 5F |
| Special Provisions: | 190 327 625 |
| Limited quantity: | 1 L |
| Transport category: | 2 |
| Tunnel restriction code: | D |
| Other applicable information (land tra | ansport) |
| E0 | |
| and waterways transport (ADN) | |
| <u>14.1. UN number:</u> | UN1950 |
| 14.2. UN proper shipping name: | AEROSOLS |
| 14.3. Transport hazard class(es): | 2 |
| Hazard label: | 2.1 |
| | |
| | |
| | 2 |
| Classification code: | 5F |
| Special Provisions: | 190 327 344 625 |
| Limited quantity: | 1 L |
| Other applicable information (inland | waterways transport) |
| E0 | / |



| V | | |
|--|---|--------------|
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| Marine transport (IMDG) | | |
| <u>14.1. UN number:</u> | UN1950 | |
| 14.2. UN proper shipping name: | AEROSOLS | |
| 14.3. Transport hazard class(es): | 2 | |
| 14.4. Packing group: | - | |
| Hazard label: | 2, see SP63 | |
| Special Provisions: Limited quantity: | 63, 190, 277, 327, 344, 959 See SP277 | |
| EmS: | F-D, S-U | |
| Other applicable information (marine to E0 | ransport) | |
| Air transport (ICAO) | | |
| <u>14.1. UN number:</u> | UN1950 | |
| 14.2. UN proper shipping name: | AEROSOLS, flammable | |
| 14.3. Transport hazard class(es): | 2.1 | |
| Hazard label: | 2.1 | |
| Special Provisions: Limited quantity Passenger: | A145 A167 30 kg G | |
| IATA-packing instructions - Passenger: IATA-max. quantity - Passenger: IATA-packing instructions - Cargo: IATA-max. quantity - Cargo: | 203 75 kg 203 150 kg | |
| Other applicable information (air trans | port) | |
| : Y203 | | |
| 14.5. Environmental hazards ENVIRONMENTALLY HAZARDOUS: | yes | ¥2 |
| Danger releasing substance: | Solvent Naphta Light | \checkmark |
| SECTION 15: Regulatory information | | |
| 15.1. Safety, health and environmental reg | ulations/legislation specific for the substance or mi | xture |
| EU regulatory information | | |
| 1999/13/EC (VOC): | 6,45 % (54,18 g/l) | |
| National regulatory information | | |
| Water contaminating class (D): | 2 - water contaminating | |
| SECTION 16: Other information | | |
| | | |

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according to Regulation (EC) No 1907/2006

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| Full text of R phrases referred to under Sections 2 and 3 | | | | | |
| 10 | Flammable. | | | | |
| 11 | Highly flammable. | | | | |
| 12 | Extremely flammable. | | | | |
| 19 | May form explosive peroxides. | | | | |
| 22 | Harmful if swallowed. | | | | |
| 36 | Irritating to eyes. | | | | |
| 36/37 | Irritating to eyes and respiratory system. | | | | |
| 36/37/38 | Irritating to eyes, respiratory system and skin. | | | | |
| 37 | Irritating to respiratory system. | | | | |
| 43 | May cause sensitisation by skin contact. | | | | |
| 51 | Toxic to aquatic organisms. | | | | |
| 51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. | | | | |
| 53 | May cause long-term adverse effects in the aquatic environment. | | | | |
| 65 | Harmful: may cause lung damage if swallowed. | | | | |
| 66 | Repeated exposure may cause skin dryness or cracking. | | | | |
| 67 | Vapours may cause drowsiness and dizziness. | | | | |
| Full text of H statements referred to under Sections 2 and 3 | | | | | |
| H222 | Extremely flammable aerosol. | | | | |
| H225 | Highly flammable liquid and vapour. | | | | |
| H226 | Flammable liquid and vapour. | | | | |
| H229 | Pressurised container: May burst if heated. | | | | |
| H280 | Contains gas under pressure; may explode if heated. | | | | |
| H304 | May be fatal if swallowed and enters airways. | | | | |
| H319 | Causes serious eve irritation. | | | | |

- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H411 Toxic to aquatic life with long lasting effects.

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