



SAFETY DATA SHEET

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Publishing date: 17.05.2012
Date of printing: 29.06.2014
In accordance with regulation (EC) no. 1907/2006 (REACH)

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

Identification of the substance:

Product name: REVOSOLV F3-BT

Identification number: C2 527

Recommended uses:

Stripping formulations, cleaning, industrial clearing, paint and resins removal

Information of the supplier:

ECP, d.o.o.

Brnčičeva 45

1231 Ljubljana

Information:

Tel.: +386 (0)1 562 05 84

Fax.: +386 (0)1 562 05 85

e-mail: office@ecp.si

01 562 05 84 (08-16h)

Emergency information:

In case of poisoning visit doctor in the nearest medical center. In case of emergency call national center for poisoning (in Slovenia tel.: +386 (0)1 434 76 45 (or tel.: 112)), or ECP, d.o.o., Brnčičeva 45, Ljubljana Tel.: +386 (0)1 562 05 84

2. Hazards identification:

2.1 Classification of the substance or mixture

Flammable (when hot)

Thermal decomposition giving flammable and toxic products

Decomposition products: see chapter 10

This substance is not classified as dangerous according to Directive 1999/45/EC.

2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008)

Not a dangerous substance according to GHS.

Labeling (67/548/EEC or 1999/45/EC)

The product does not need to be labeled in accordance with EC directives or respective national laws.

2.3 Other hazards

Slightly irritating to eyes.

Harmful to aquatic organisms.

3. Composition / information on ingredients

Chemical nature of the preparation:

| Name | EC Nr. | GHS hazard statements | Concentration |
|--|-----------|-----------------------|---------------|
| Dimethyl sulfoxide | 200-664-3 | / | > 40% |
| Pentanedioic acid, 2-methyl-, 1,5-dimethyl ester | 906-170-0 | / | > 20% |
| Activator | | H332,H302, H312, H314 | < 1 % |



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Classification: In accordance with directive 67/548/EEC

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For the full text of the H-Statements mentioned in this Section, see Section 16

4. First aid measures

4.1 Description of first aid measures

General advice: Take off immediately all contaminated clothing.

After inhalation: Move to fresh air

Oxygen or artificial respiration if needed

In case of persistent problems: Consult a physician.

After skin contact: wash off with plenty of water and soap. Remove contaminated clothing.

After eye contact: rinse out with plenty of water. If irritation persists, consult an ophthalmologist.

After swallowing: immediately make victim drink water (two glasses at most). Do not induce vomiting, Hospitalize

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects, CNS disorders, Nausea, Headache, Tiredness

4.3 Indication of any immediate medical attention and special treatment needed

Laxative: Sodium sulfate (1 tablespoon/1/4 l water). Get medical attention.

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Foam

Dry chemical

Carbon dioxide (CO₂)

Water spray

Unsuitable extinguishing media

High volume water jet

5.2 Special hazards arising from the substance or mixture

Flammable liquid (when hot)

Thermal decomposition giving toxic products: Sulphur oxides, Nitrogen oxides

5.3 Advice for firefighters

Special protective equipment for firefighters

Wear a self-contained breathing apparatus and protective suit

Further information

Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system. Collect contaminated fire extinguishing water separately.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Prohibit all sources of sparks and ignition - Do not smoke.

Avoid contact with skin and eyes and inhalation of vapours.

Use personal protective equipment.

6.2 Environmental precautions

Do not release into the environment

Do not let the product enter into drains

Dam up with sand or inert earth (do not use combustible materials).

6.3 Methods and materials for containment and cleaning up

Recover the product

Sweep up to prevent slipping hazard.

Recovery

Pump into a labeled inert emergency tank



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| | |
|-------------|--|
| | Absorb the remainder with an inert absorbent material |
| | Shovel or sweep up. |
| | Shovel into suitable container for disposal. |
| | After cleaning, flush away traces with water. |
| | Dilute with water. |
| | Recover waste water for processing later. |
| Elimination | Destroy the product by incineration (in accordance with local and national regulations). |
| | Destroy absorbed product by incineration at an approved waste disposal site only |
| | In accordance with local and national regulations. |
| | Treat waste water with : bleach (diluted solutions) |
| | Dispose of rinse water as waste water. |

6.4 Reference to other sections

Indications about waste treatment see section 13.

7. Handling and storage

7.1 Precautions for safe handling

| | |
|--------------------------------|--|
| Technical measures/Precautions | Storage and handling precautions applicable to products :LIQUID Flammable (when hot). With vapours explosive in air. Provide appropriate exhaust ventilation at machinery. Provide showers, eye-baths. |
| Safe handling advice | Keep well away from naked flames. Prohibit all sources of sparks and ignition - Do not smoke. Only use safety equipment. |

7.2 Conditions for safe storage, including any incompatibilities

| | |
|---------------------------------------|---|
| Technical measures/Storage conditions | Keep tightly closed in a dry, cool and well-ventilated place. Store away from heat and ignition sources Provide a catch-tank in a bonded area. Storage temperature: > 10 °C |
| Incompatible products | Prevent accidental discharge of product into drains and waterways Halogenated organic and mineral acids (sulphur, phosphorus) Methyl bromide, Sodium hydride, Zinc, Steel (in the presence of water), Copper, aluminium and alloys, Strong acids : perchloric acid, periodic acid, Strong oxidizers |

7.3 Specific end uses

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8. Exposure controls / personal protection

8.1 Control parameters

| | |
|-----------------------------|--|
| Exposure Limit Values: | DIMÉTHYL SULFOXYDE Value recommended by the "Exposure Limit Value Committee" of ARKEMA TWA = 300 ppm WEEL(2006), 8-hour = 250 ppm ACTIVATOR TWA = 1 ppm (2.5 mg/m ³) STEL = 3 ppm (7.6 mg/m ³) Skin penetration possible. |
| General protective measures | Ensure sufficient air exchange and/or exhaust in work areas Check and control working atmosphere frequently. |

8.2 Exposure controls

Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.



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See section 7.1.

Individual protection measures

| | |
|--------------------------|--|
| Respiratory protection | In case of insufficient ventilation, wear suitable respiratory equipment. Low concentrations or short activity: Self contained Breathing Apparatus High concentrations or prolonged activity: Self contained Breathing Apparatus |
| Hand protection | Gloves nitrile rubber; Glove thickness: 0,75 mm |
| Eye protection | Safety glasses |
| Skin and body protection | At the workplace: Combination with delayed penetration Intervention at incident: anti-acid suit |

Hygiene measures

Ensure ventilation of work areas and extraction of dust or vapours

When using do not eat, drink or smoke.

Change contaminated clothing. Wash hands after working with substance.

Environmental exposure controls

Do not empty into drains.

9. Physical and chemical properties

| | |
|--------------------------|------------------------|
| Physical state: | liquid |
| Color: | colorless |
| Odor: | fruity |
| pH value | Not available |
| Melting point | 0 °C |
| Boiling point (1013hPa) | >175 °C |
| Flash point | 87 °C c.c. |
| Explosion limit | lower 1.8 Vol% |
| | upper 63.0 Vol% |
| Density (20 °C) | 1.10 g/cm ³ |
| Water solubility (20 °C) | >200 g/l |
| Thermal decomposition | > 190 °C |

10. Stability and reactivity

10.1 Reactivity

Forms explosive mixtures with air on intense heating.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

Halogenated organic and mineral acids (sulphur, phosphorus)

Methyl bromide

Sodium hydride

Zinc, Steel (in the presence of water)

Strong acids : perchloric acid, periodic acid

Strong bases

Strong oxidizing agents

10.4 Conditions to avoid

Moisture, contact with air, CO₂ and steam was readily absorbed by activator

Keep away from heat and sources of ignition.

To avoid thermal decomposition, do not overheat.



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10.5 Incompatible materials

various plastics

10.6 Hazardous decomposition products

Thermal decomposition giving flammable and toxic products

Sulphur oxides

Formaldehyde

Methylmercaptan

Thermal decomposition giving flammable and harmful products

Dimethylsulphide

10.7 Further information

The product is stable at ambient temperature

Hygroscopic product (strongly)

Stability of the solution decreases under the action of heat, light, and in the presence of impurities

11. Toxicological information

Acute toxicity

LD₅₀ (dermal, rat): 2000 mg/kg (IUCLID)-no mortality observed at this dose.

LD₅₀ (oral, rats): 14500 mg/kg (RTECS).

Sub acutely to chronically venom

Sensitivity:

Sensibility test (guinea pig): negative. (IUCLID)

No signs of carcinogenic. (IUCLID)

No signs of mutagenicity. (IUCLID)

Bacterial mutagenicity: Ames test: negative. (IUCLID)

When testing animals there was no teratogenic effect. (IUCLID)

Mutagenicity (test with mammals cells): Chromosome aberration-negative. (Nacional toxicological program)

Further toxicological information

Skin-contact: Slightly irritating. Significant cutaneous penetration. Can aid transcutaneous passage of other substances

Eye-contact: Slightly irritating.

Possible symptoms: After ingestion: CNS disorders, dizziness, tiredness, headache.

Possible damages: Damages of livers, kidneys.

Further information

The product needs to be taken care carefully, like any other chemicals.

12. Ecotoxicological information

SUBSTANCE CONCERNED DIMÉTHYL SULFOXYDE

MOBILITY

In soils and sediments: Non adsorbable , log Koc: 0,64

Henry constant: 868E-09 Pa.m³/mol

Non volatile

Water: 48,1 %

Air: 0,59 %

Soil: 51,3 %

sediment: 0,09 %

Predicted distribution to environmental compartments

PERSISTENCE/DEGRADABILITY

In water

Rapid hydrolysis

Degradation by radicals OH

Half-life: Half-life: from 0,12 - 1,2 h (at 30 °C)



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| | |
|------|---------------|
| ADNR | Not regulated |
| RID | Not regulated |
| IATA | Not regulated |
| IMDG | Not regulated |

Not classified as dangerous in the meaning of transport regulations.

15. Regulatory information

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

EU regulations

Major Accident Hazard Legislation 96/82/EC

Directive 96/82/EC does not apply

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

16. Other information

R-phrases: --

GHS-hazard statements: H332 Harmful if inhaled.; H302 Harmful if swallowed. ;H312 Harmful in contact with skin.
; H314 Causes severe skin burns and eye damage.

Reason for the change

General update.

This information applies to the product as such, but it does not guarantee the characteristics of the product and it cannot be a basis for any contractual relationship.
