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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revised on / Version: 19.01.2011 / 0002
Replaces revision of / Version: 13.01.2010 / 0001
Valid from: 19.01.2011
PDF print date: 03.02.2011
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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

Product identifier

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Use of the substance/mixture

See definition of the substance or mixture.

Relevant identified uses of the substance or mixture:

No information available at present.

Uses advised against:

No information available at present.

Details of the supplier of the safety data sheet

Reinheimer GmbH & Co. KG, Borgwardstrasse 10, D-21365 Adendorf/Lbg.
Telephone +49 (0)4131/981661, Fax +49 (0)4131/981663
www.rei-pa.com, rei-pa@t-online.de

E-mail address of the competent person: info@chemical-check.de, k.schnurbusch@chemical-check.de

Emergency telephone

Advisory office in case of poisoning:

Tel.:

Telephone number of the company in case of emergencies:

Tel.: +49 (0)4131/981661

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) 1272/2008 (CLP)

Not determined

2.1.2 Classification according to Directives 67/548/EEC and 1999/45/EC

(including

Xn, Harmful, R22

2.2 Label elements

2.2.1 Labeling according to Regulation (EC) 1272/2008 (CLP)

Not determined

2.2.2 Labeling according to Directives 67/548/EEC and 1999/45/EC

(including

amendments).
amendments).

Symbols: Xn

Indications of danger:
Harmful

R-phrases:

22 Harmful if swallowed.

S-phrases:

24/25 Avoid contact with skin and eyes.

35 This material and its container must be disposed of in a safe way.

Additions:

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Diethylene glycol

2.3 Other hazards

The mixture contains no vPvB substance (vPvB = very persistent, very bioaccumulative).
 The mixture contains no PBT substance (PBT = persistent, bioaccumulative, toxic).

SECTION 3: Composition/information on ingredients

3.1 Substance

n.a.

3.2 Mixture

Diethylene glycol

Registration number (ECHA)

Index 603-140-00-6

EINECS, ELINCS 203-872-2

CAS CAS 111-46-6

content % 25-40

Symbol Xn

R-phrases 22

Classification categories / Indications of danger Harmful

Hazard class/Hazard category **Hazard statement**

Acute Tox./4 H302

For the text of the R-phrases / H-phrases and classification codes (GHS/CLP), see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation

Remove person from danger area.
 Supply person with fresh air.
 Medical supervision necessary due to possibility of delayed reaction.
 If the person is unconscious, place in a stable side position and consult a doctor.

Skin contact

Wash thoroughly using copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

Eye contact

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

Ingestion

Do not induce vomiting.
 Consult doctor immediately - keep Data Sheet available.
 Never pour anything into the mouth of an unconscious person!

4.2 Most important symptoms and effects, both acute and delayed

Where relevant delayed occurring symptoms and effects will be found in section 11. or at the exposure routes under section 4.1.
 The following may occur:

Headaches
 Dizziness
 Gastrointestinal disturbances
 Unconsciousness
 Effects/damages the central nervous system
 Liver and kidney damage

4.3 Indication of any immediate medical attention and special treatment needed

n.c.
 Symptoms: Headaches
 Dizziness Gastrointestinal
 disturbances
 Unconsciousness
 Effects/damages the central nervous system

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water jet spray
Alcohol resistant foam
Dry extinguisher
CO₂

Unsuitable extinguishing media

High volume water jet

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon
Explosive vapour/air mixture
Dangerous vapours heavier than air.

5.3 Advice for firefighters

Protective respirator with independent air supply.
According to size of fire
Full protection, if necessary
Dispose of contaminated extinction water according to official regulations.
In case of fire and/or explosion do not breathe fumes.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure sufficient supply of air.
Avoid contact with eyes or skin.
If applicable, caution - risk of slipping
Remove possible causes of ignition - do not smoke.
Take measures against electrostatic charging, if appropriate.

6.2 Environmental precautions

If leakage occurs, dam up.
Prevent from entering drainage system.
Prevent surface and ground-water infiltration, as well as ground penetration.

6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent) and dispose of according to Section 13.
Or:

Pick up mechanically and dispose of according to Section 13.

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

Ensure sufficient ventilation.
Observe directions on label and instructions for use.
Use working methods according to operating instructions.
Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.
Take explosion-prevention measures if applicable.
Room ventilation also at ground level.
Keep away from sources of ignition - Do not smoke.
General hygiene measures for the handling of chemicals are applicable.
Wash hands before breaks and at end of work.
Keep away from food, drink and animal feedingstuffs.
Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Not to be stored in gangways or stair wells.

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Store product closed and only in original packing.
 Solvent resistant floor
 Protect from frost.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

| Chemical Name | Diethylene glycol | Content %:25-40 | |
|---------------|---------------------------------|--------------------|-----|
| WEL-TWA: | 23 ppm (101 mg/m ³) | WEL-STEL: | --- |
| BMGV: | --- | Other information: | --- |
| Chemical Name | Talc | Content %: | |
| WEL-TWA: | 1 mg/m ³ (res. dust) | WEL-STEL: | --- |
| BMGV: | --- | Other information: | --- |

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.
 ** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.
 If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.
 Applies only if maximum permissible exposure values are listed here.

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.
 Wash hands before breaks and at end of work.
 Keep away from food, drink and animal feedingstuffs.
 Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:
 With danger of contact with eyes.
 Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection: Recommended
 Protective PVC gloves (EN 374)
 Minimum layer thickness in mm:
 0,5
 Permeation time (penetration time) in minutes:
 > 480

Skin protection - Other: Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments)

Respiratory protection:
 If OES or MEL is exceeded.
Gas mask filter A (EN 14387), code colour brown
 Filter A P2 (EN 14387), code colour brown, white

Thermal hazards:
 If applicable, these are included in the individual protective measures (eye/face protection, skin protection, respiratory protection).

Additional information on hand protection - No tests have been performed.
 In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

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Selection of materials derived from glove manufacturer's indications.
 Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.
 Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.
 In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.
 The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--|---|
| Physical state: | Pastelike |
| Colour: | Light |
| Odour: | Characteristic |
| Odour threshold: | Not determined |
| pH-value: | Not determined |
| Melting point/freezing point: | Not determined |
| Initial boiling point and boiling range: | Not determined |
| Flash point: | >100 °C (Diethylene glycol) |
| Evaporation rate: | Not determined |
| Flammability (solid, gas): | Not determined |
| Lower explosive limit: | Not determined |
| Upper explosive limit: | Not determined |
| Vapour pressure: | Not determined |
| Vapour density (air = 1): | Not determined |
| Density: | ~1 g/ml |
| Bulk density: | Not determined |
| Solubility(ies): | Not determined |
| Water solubility: | Not determined |
| Partition coefficient (n-octanol/water): | Not determined |
| Auto-ignition temperature: | 226 °C (Ignition temperature Diethylene glycol) |
| Decomposition temperature: | Not determined |
| Viscosity: | Not determined |
| Explosive properties: | Not determined |
| Oxidising properties: | No |

9.2 Other information

| | |
|---------------------------|----------------|
| Miscibility: | Not determined |
| Fat solubility / solvent: | Not determined |
| Conductivity: | Not determined |
| Surface tension: | Not determined |
| Solvents content: | Not determined |

SECTION 10: Stability and reactivity

10.1 Reactivity

See also Subsection 10.4 to 10.6.
 The product has not been tested.

10.2 Chemical stability

See also Subsection 10.4 to 10.6.
 Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

See also Subsection 10.4 to 10.6.

10.4 Conditions to avoid

See also section 7.
 Strong heat
 Protect from frost.

10.5 Incompatible materials

See also section 7.
 Avoid contact with other chemicals.

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10.6 Hazardous decomposition products

See also Subsection 10.4 to 10.6.

See also section 5.3

SECTION 11: Toxicological information

Classification according to calculation procedure.

The product was not tested.

Ingestion:

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| Toxicity/effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|---|----------|-------|------|----------|-------------|--------|
| Acute toxicity, by oral route: | | | | --- | | n.d.a. |
| Acute toxicity, by dermal route: | | | | --- | | n.d.a. |
| Acute toxicity, by inhalation: | | | | --- | | n.d.a. |
| Skin corrosion/irritation: | | | | --- | | n.d.a. |
| Serious eye damage/irritation: | | | | --- | | n.d.a. |
| Respiratory or skin sensitisation: | | | | --- | | n.d.a. |
| Germ cell mutagenicity: | | | | --- | | n.d.a. |
| Carcinogenicity: | | | | --- | | n.d.a. |
| Reproductive toxicity: | | | | --- | | n.d.a. |
| Specific target organ toxicity - single exposure (STOT-SE): | | | | --- | | n.d.a. |
| Specific target organ toxicity - repeated exposure (STOT-RE): | | | | --- | | n.d.a. |
| Aspiration hazard: | | | | --- | | n.d.a. |
| Respiratory tract irritation: | | | | --- | | n.d.a. |
| Repeated dose toxicity: | | | | --- | | n.d.a. |
| Symptoms: | | | | --- | | n.d.a. |

Diethylene glycol

| Toxicity/effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|---|----------|-------|-------|----------|-------------|--|
| Acute toxicity, by oral route: | LD50 | 12565 | mg/kg | Rat | | Does not conform with EU classification. |
| Acute toxicity, by dermal route: | LD50 | 11890 | mg/kg | Rabbit | | |
| Acute toxicity, by inhalation: | | | | --- | | n.d.a. |
| Skin corrosion/irritation: | | | | --- | | Mild irritant |
| Serious eye damage/irritation: | | | | --- | | Mild irritant |
| Respiratory or skin sensitisation: | | | | --- | | n.d.a. |
| Germ cell mutagenicity: | | | | --- | | n.d.a. |
| Carcinogenicity: | | | | --- | | n.d.a. |
| Reproductive toxicity: | | | | --- | | n.d.a. |
| Specific target organ toxicity - single exposure (STOT-SE): | | | | --- | | n.d.a. |
| Specific target organ toxicity - repeated exposure (STOT-RE): | | | | --- | | n.d.a. |
| Aspiration hazard: | | | | --- | | n.d.a. |
| Respiratory tract irritation: | | | | --- | | Mild irritant |
| Repeated dose toxicity: | | | | --- | | n.d.a. |

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| | | | | | | | |
|------------------------------------|--|-----|----|---|--|---|--------|
| Persistence and degradability: | | 28d | 67 | % | | OECD 301 A (Ready Biodegradability - DOC Die-Away Test) | |
| Bioaccumulative potential: | | | | | | | n.d.a. |
| Mobility in soil: | | | | | | | n.d.a. |
| Results of PBT and vPvB assessment | | | | | | | n.d.a. |
| Other adverse effects: | | | | | | | n.d.a. |

| Talc | | | | | | | |
|------------------------------------|----------|------|-------|------|----------|-------------|--------|
| Toxicity/effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| Toxicity to fish: | | | | | | | n.d.a. |
| Toxicity to daphnia: | | | | | | | n.d.a. |
| Toxicity to algae: | | | | | | | n.d.a. |
| Persistence and degradability: | | | | | | | n.d.a. |
| Bioaccumulative potential: | | | | | | | n.d.a. |
| Mobility in soil: | | | | | | | n.d.a. |
| Results of PBT and vPvB assessment | | | | | | | n.d.a. |
| Other adverse effects: | | | | | | | n.d.a. |
| Other ecotoxicological data: | BOD5 | | 0 | | | | |
| Water solubility: | | | < 0,1 | % | | | |

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2001/118/EC, 2001/119/EC, 2001/573/EC)
 07 06 99 wastes not otherwise specified

Recommendation:

Pay attention to local and national official regulations

E.g. suitable incineration plant.

E.g. dispose at suitable refuse site.

For contaminated packing material

Pay attention to local and national official regulations

Recommendation:

15 01 01 paper and cardboard packaging

15 01 02 plastic packaging 15 01 04

metallic packaging Empty container

completely. Uncontaminated packaging can be recycled.

SECTION 14: Transport information

General statements

UN number: n.a.

Transport by road/by rail (ADR/RID)

UN proper shipping name: n.a.

Transport hazard class(es): n.a.

Packing group: n.a.

Classification code: n.a.

LQ (ADR 2011): n.a.

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LQ (ADR 2009): n.a.
 Environmental hazards: Not applicable
 Tunnel restriction code:

Transport by sea (IMDG-code)

UN proper shipping name:
 Transport hazard class(es): n.a.
 Packing group: n.a.
 Marine Pollutant: n.a.
 Environmental hazards: Not applicable

Transport by air (IATA)

UN proper shipping name:
 Transport hazard class(es): n.a.
 Packing group: n.a.
 Environmental hazards: Not applicable

Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Non-dangerous material according to Transport Regulations.

Additional information:

Non-dangerous material according to Transport Regulations.

SECTION 15: Regulatory information

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

For classification and labelling see Section 2.

Observe restrictions: Yes
 Observe youth employment law (German regulation).
 Observe law on protection of expectant mothers (German regulation).
 Regulation (EC) No 1907/2006, Annex XVII.
 VOC 1999/13/EC: 0%

15.2 Chemical safety assessment

No information available at present.

SECTION 16: Other information

These details refer to the product as it is delivered.

Revised sections: 1 - 16

The following statements are the indicated R-phrases / H-phrases and classification codes (GHS/CLP) for the ingredients (listed in Section 3).

22 Harmful if swallowed.
 H302 Harmful if swallowed.

Acute Tox.-Acute toxicity - oral

Legend:

n.a. = not applicable / n.v., k.D.v. = n.av. = not available / n.g. = n.c. = not checked
 WEL = Workplace Exposure Limit EH40, TWA = Long-term exposure limit (8-hour TWA (= time weighted average) reference period), STEL = Short-term exposure limit (15-minute reference period) / BMGV = Biological monitoring guidance value EH40
 AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany) / BGW = "Biologischer Grenzwert" (biological limit value, Germany)
 VbF = Regulations for flammable liquids (Austria)
 VOC = Volatile organic compounds
 AOX = Adsorbable organic halogen compounds
 ATE = Acute Toxicity Estimates according to Regulation (EC) 1272/2008 (CLP)

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by:

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