

Safety Data Sheet

according to Regulation (EU) No. 1907/2006

Release spray liquid (165106-X)

Print date : 15.05.2009

Product code : 165106-X

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

Release spray liquid (165106-X)

Company/undertaking identification

Company name : R&G Faserverbundwerkstoffe GmbH
 Composite Technology
 Street : Im Meißel 7 - 13
 Place : D-71111 Waldenbuch
 Post-office box : 1145
 D-71107 Waldenbuch
 Telephone : +49-7157-530460
 e-mail : info@r-g.de
 Internet : www.r-g.de
 Inquiry office : Management
 Emergency telephone : poison information centre
 Telefax : +49-7157-530470

2. Hazards identification**Classification**

Indications of danger : Harmful
 R-phrases :
 Flammable.
 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 Harmful: may cause lung damage if swallowed.
 Repeated exposure may cause skin dryness or cracking.
 Vapours may cause drowsiness and dizziness.

3. Composition/information on ingredients**Chemical characterization (Mixture)**

Dispersion of waxes in a mixture of solvents.

Hazardous components

EC-No.	CAS-No.	Chemical name GHS classification	Quantity	Classification
265-150-3	64742-48-9	Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha Carc. 1B, Asp. Tox. 1; H350 H304	75-80%	Carc. Cat. 2, Muta. Cat. 2, Xn R45-46-65
265-185-4	64742-82-1	Naphtha (petroleum), hydrodesulfurized heavy; Low boiling point hydrogen treated naphtha Carc. 1B, Asp. Tox. 1; H350 H304	15-20%	Carc. Cat. 2, Muta. Cat. 2, Xn R45-46-65

Full text of each relevant R phrase can be found in heading 16.

4. First aid measures**General information**

Change contaminated clothing. Take the injured person out of the danger area and lay him/her down. If victim is at risk of losing consciousness, position and transport on their side. Lie affected person down, cover with a blanket and keep warm. Call a doctor, giving the substance's exact name.

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After inhalation

Provide fresh air.
The following symptoms can occur: Dizziness. Headache. unconsciousness. Nausea. difficulty of breathing.
Consult physician if problems persist.

After contact with skin

After contact with skin, wash immediately with soap and plenty of water. If skin becomes irritated, seek medical treatment.

After contact with eyes

Immediately rinse with copious amounts of water. Consult a doctor when irritation persists.

After ingestion

Do not induce vomiting. Rinse mouth immediately and drink large quantities of water. Consult physician.
Do not introduce anything into the mouth of an unconscious person. Risk of aspiration. Potential damage to lungs after vomiting.

Advice to doctor

Risk of aspiration. Potential damage to lungs after vomiting.
After ingestion the stomach must be emptied by a doctor using a probe.
Follow-up observations for pneumonia and pulmonary oedema.

5. Fire-fighting measures**Suitable extinguishing media**

Atomized water. Sand. Foam. Dry extinguishing powder. Carbon dioxide (CO₂).

Extinguishing media which must not be used for safety reasons

High power water jet.

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

Fire gives rise to dense black smoke. Carbon dioxide (CO₂). Carbon monoxide. hydrocarbons. Gases emitted by burning organic materials must always be classified as respiratory poisons.

Special protective equipment for fire-fighters

Wear breathing apparatus with own air supply.

Additional information

Cool affected receptacles with water. Fire residue and contaminated firefighting water must be disposed of in accordance with government regulations. Contaminated fire-fighting water must not get into the sewerage network.

6. Accidental release measures**Personal precautions**

Provide adequate ventilation. Do not breathe in vapours. Keep away from sources of ignition. No smoking. Avoid contact with skin, eyes, and clothing.

Environmental precautions

Do not empty into drains or the aquatic environment. Do not allow to enter groundwater. Do not allow to enter the soil or subsoil.

Methods for cleaning up/taking up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
Dispose of contaminated material as § 13 waste.

7. Handling and storage**Handling**

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Advice on safe handling

Provide adequate ventilation/vapour extraction at the workplace. Only use the material in places where open light, fire and other flammable sources can be kept away. When using do not eat, drink or smoke.

Advice on protection against fire and explosion

Use water to cool receptacles in danger. Keep away from sources of ignition. No smoking. Take precautionary measures against static discharges. Fumes may form explosive mixtures with air. Earth receptacles. Spray mist may be blammbar at temperatures below the flash point. Concentrated vapors are heavier than air. Before opening the container prepare fire extinguisher. ~Vulkanisationsagenz1=Vulcanization agent(s) (B)

Further information on handling

For restriction of emission on volatile organic compounds (VOC) the solvent vapours should be supplied to an exhaust air purification facility (filter, gas washer, incineration).

Storage

Requirements for storage rooms and vessels

Store only in original container. Do not store out of doors. Protect against the effects of heat and direct sunlight. Storage temperature: +10-+30°C

Advice on storage compatibility

Keep away from oxidising agents.

Further information on storage conditions

Keep in well sealed receptacles at a cool, dry location.

Ventilate adequately storage and work rooms.

Storageclass (VCI) :

3A

8. Exposure controls/personal protection

Exposure limit values

Exposure controls

Occupational exposure controls

When thresholds are exceeded approved respiratory equipment must be worn.

Protective and hygiene measures

Do not smoke, eat, or drink during work. Do not breathe in vapours.

Respiratory protection

Gas filtrating Half-face mask: FFA EN 405, BGR 190, ZH 1/701 Modell 4251 (FFA1P1/1000ml/m³) 4255 (FFA2P2SL/5000ml/m³)

Half-face mask or Quarter-face mask with gas filter: EN 141, BGR 190, ZH 1/701 Typ 6051(A1/1000ml/m³) 6055 (A2/5000ml/m³)

Full-face mask with gas filter: EN 136, BGR 190, ZH 1/701

TYP A,

Indication colour brown

Hand protection

Wear protective gloves. (EN 374)

Material: NBR (Nitrile rubber). FKM (Fluoroelastomer).

Breakthrough time: 60 min

Eye protection

Tightly sealed safety glasses. (EN 166, BGR 192, ZH 1/703)

Skin protection

Wear protective clothing. (EN 340, BGR 189, ZH 1/700), antistatische Stiefel (EN 344, BGR 191, ZH 1/702))

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Environmental exposure controls

Do not let the product enter the groundwater, open water, or the sewerage system.

9. Physical and chemical properties

General information

Physical state : liquid
 Colour : white
 Odour : characteristic

Important health, safety and environmental information

Changes in the physical state

	Test method
Boiling point :	140 °C
Flash point :	24 °C DIN EN ISO 2719
Lower explosion limits :	0,6 vol. %
Upper explosion limits :	7,0 vol. %
Vapour pressure :	5 hPa
(at 20 °C)	
Vapour pressure :	24 hPa
(at 50 °C)	
Density (at 20 °C) :	0,77 g/cm ³ DIN 51757
Water solubility :	0,1 g/L
(at 20 °C)	
Solubility in other solvents :	mixable with most organic solvent cleaners
Viscosity / kinematic :	7 mm ² /s 3 EN ISO 2431
(at 23 °C)	
Flow time :	23 s 3 EN ISO 2431
(at 23 °C)	
Evaporation rate :	0,6 n-BuAc=1 ASTM D 3539
(at 20 °C)	

Other information

Ignition temperature : > 200 °C

10. Stability and reactivity

Materials to avoid

Oxidizing agents.

Additional information

no decomposition when stored and handled properly

11. Toxicological information

Acute toxicity

Preparation not tested.

Additional information on tests

Organic solvent: according to the literature, aliphatic hydrocarbons have a slightly irritant effect on the skin and mucous membranes in addition to their demoisturising and narcotic properties. Direct contact with lung tissue (e.g. through aspiration) may cause pneumonia.

Empirical data on effects on humans

LD 50/oral rat => 2.000 mg/kg
 LD 50/dermal rat => 2.000 mg/kg
 LC 50/inhalativ 4h rat => 20 mg/l

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Has de-greasing effect on the skin. Eye contact may cause irritation.
 Inhalation of high vapour concentrations can cause narcotic effects and metabolic acidosis. Symptoms of overexposure are dizziness, headaches, fatigue, nausea, unconsciousness, and respiratory arrest.
 Fast evaporation of liquid can cause frostbite.

12. Ecological information

Ecotoxicity

LC 50/96h/Poecilia reticulata: 10-100 mg/l

EC 50/72h/algae: 10-100 mg/l

EC 50/48h/Daphnia magna: 10-100 mg/l

Mobility

The product is insoluble and floats on water. The product evaporates readily.

Other adverse effects

Keine Daten verfügbar.

Further information

Do not let the product enter the groundwater, open water, or the sewerage system.

13. Disposal considerations

Advice on disposal

Carry out a burning of hazardous waste according to official regulations.

Waste disposal number of waste from residues/unused products

070204 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of plastics, synthetic rubber and man-made fibres; other organic solvents, washing liquids and mother liquors
 Classified as hazardous waste.

Waste disposal number of used product

070204 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of plastics, synthetic rubber and man-made fibres; other organic solvents, washing liquids and mother liquors
 Classified as hazardous waste.

Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances
 Classified as hazardous waste.

Contaminated packaging

Cleaned containers may be recycled.

14. Transport information

Land transport (ADR/RID)

UN number :	1268
ADR/RID class :	3
Classification code :	F1
Warning plate	
Hazard-no. :	30
Hazard label :	3
ADR/RID packing group :	III
Limited quantity :	LQ7

Description of the goods

ERDÖLDESTILLATE, N.A.G.

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Other applicable information (land transport): 3
: E**Marine transport**

UN number :	1268
IMDG code :	3
Marine pollutant :	•
Hazard label :	3
IMDG packing group :	III
EmS :	F-E, S-E
Limited quantity :	5 L

Description of the goods

PETROLEUM PRODUCTS, N.O.S.

Other applicable information (marine transport)

: 223, 944, 955

Air transport

UN/ID number :	1268
ICAO/IATA-DGR :	3
Hazard label :	3
ICAO packing group :	III
Limited quantity Passenger :	10 L
IATA-packing instructions - Passenger :	309
IATA-max. quantity - Passenger :	60 L
IATA-packing instructions - Cargo :	310
IATA-max. quantity - Cargo :	220 L

Description of the goods

PETROLEUM PRODUCTS, N.O.S.

Other applicable information (air transport)

: Y309

15. Regulatory information**Labelling**

Danger symbols : Xn - Harmful

Hazardous component(s) to be indicated on label

Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha
 Titantetrabutanolat
 Tetraethylsilikat

R phrases

10	Flammable.
52/53	Harmful to aquatic organisms, 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.

S phrases

23	Do not breathe Dämpfe.
24	Avoid contact with skin.
43	In case of fire, use Sand, Löschpulver, alkoholbeständigen Schaum. Kein Wasser verwenden.
61	Avoid release to the environment. Refer to special instructions / Safety data sheets.
62	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

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Additional advice on labelling

The product is classified and labelled under the EC Directives/hazardous substances laws (GefStoffV).

EU regulatory information

Additional information

Contains epoxy constituents. See information supplied by the manufacturer.

National regulatory information

Employment restrictions : Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.

Water contaminating class (D) : 2 - water contaminating

16. Other information

Full text of R-phrases referred to under sections 2 and 3

- | | |
|-------|---|
| 10 | Flammable. |
| 45 | May cause cancer. |
| 46 | May cause heritable genetic damage. |
| 52/53 | Harmful to aquatic organisms, 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. |

Further Information

All information, recommendations, and advice on the part of R&G Faserverbundwerkstoffe GmbH are published to the best of our knowledge and belief. They are noncommittal and contain neither explicit nor tacit assurance or warranty of particular properties. The values specified for properties are typical figures. Recommendations or advice serve to describe our products and possible applications in a general or exemplary, but not specifically individual manner. In the course of the constant technical advancement and improvement of our products there may be changes to the characteristic values, copy, and diagrams; no specific reference is made to any such change. Owing to our products' wide and highly diverse range of potential applications far beyond any of our attempts to analyse, the customer alone is responsible for examining our products' suitability for the respective processes and purposes and their respective processibility. All and any protective rights and the applicable laws, terms, and conditions must be observed by the buyer or user of our products at their own responsibility. Publication is not a licence and does not intend the violation of any patents.

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