

Material safety data sheet

According to 1907/2006/EG, Article 31

Printing date: 28.05.2015

Version 3014-02-002

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

- **Product identifier:** Mixture of materials
- **Trade name:** Rapidschwärzer
- **Relevant identified uses of the mixture and uses advised against:** not known
- **Application of the substance/preparation:** cleaning agent
- **Details of the supplier of the safety data sheet**
 - Manufacturer/Supplier:** Biedruchem e. K.
Engerstraße 45
D – 33824 Werther (Westfalen)
Germany
Tel.: +49/5203/8812-10
 - **Informing department:** Product safety department, Tel.: +49/5203-881210
Mail: info@biedruchem.de
 - **Emergency telephone number:** Poison Control Centre, Mainz Germany
Tel.+49/6131 – 19240

2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) Nr. 1272/2008:**

Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
Met. Corr.1	H290	May be corrosive to metals.
Flam. Liq. 3	H226	Flammable liquid and vapour.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.
- **Classification according to Directive 67/548/EC or Directive 1999/45/EC:**

R 36/38	Irritating to eyes and skin.
R 65:	Harmful: may cause lung damage if swallowed.
R 10:	Flammable.

- **Label elements**



Xn; Harmful
Xi; Irritant

- **Labelling according to Regulation (EC) Nr. 1272/2008:**

The substance is classified and labelled according to the CLP regulation.

- **Hazard pictograms:** GHS08 GHS02
- **Signal word:** Danger

- **Hazard statements**

H290	May be corrosive to metals
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
- **Precautionary statements**

P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P243	Take precautionary measures against static discharge

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P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.

Rinse skin with water/shower.

P305+P351+P338 IF IN EYES:

Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do

– continue rinsing




P405 Store locked up

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

*3 Composition/information on ingredients

- **Chemical characterization:** aqueous acidic solution with particle

- **Hazardous ingredients:**

CAS-No.	EINECS	Description	% - range	symbol	H-phrases
7664-38-2	231-633-2	phosphoric acid 85 %	<25%		GHS05 290; 314
64742-48-9	265-150-3	Anticorrosive WD 40 aromatic free. (self made without R45)	<15%		GHS08 304
108-65-6	203-0603-9	2-methoxy-1-methylethyl acetate	<20%		GHS02 226

- **Additional information:** The wording of the listed risk phrases refer to section 16. the here specified raw materials and percentages are only meant to reduce the risks for Health, safety and environment to suggest, and do not represent production specification.

4 First aid measures

Description of first aid measures

- **General advice:** Instantly remove any clothing soiled by the product.
- **After inhalation:** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact:** Remove contaminated clothing immediately. Wash affected areas with plenty of water und soap. If irritation continues, contact a doctor.
- **After eye contact:** In case of persistent symptoms consult doctor. Rinse opened eye for 15 minutes under running water.
- **After swallowing:** Rinse out mouth and then drink plenty of water. Call a doctor immediately.
- **Information for doctor:** In case of oral ingestion do not use sodium hydrogen carbonate (NaHCO₃) or calcium carbonate (CaCO₃)for neutralization, since developing carbon dioxide may cause perforation of the stomach. Drink suspension of magnesia in water. Cave pulmonary oedema after a latency of two days; treatment with Dexamethason. Symptomatic treatment: Prophylaxis of infection.
- **Most important symptoms and effects, both acute and delayed:** Burning effect and pain to eyes, skin and mucous membranes. After swallowing heavy irritation to oral cavity and throat as well as danger of perforation of the gullet.

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5 Firefighting measures

Extinguishing media

- **Suitable extinguishing agents:**

CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol resistant foam.

- **For safety reasons unsuitable extinguishing agents:**

Water with a full water jet.

- **Special hazards arising from the substance or mixture:**

Formation of toxic gases is possible during heating or in case of fire. Can be released in case of fire: Hydrogen chloride (HCl)

Advice for fire fighters

- **Protective equipment:**

See section 8. Wear full protective suit with self-contained breathing apparatus.

- **Additional information:**

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment:

Keep off unprotected persons Extinguish naked flames. Remove flammable sources. No smoking. Avoid sparks. Avoid contact with skin, eyes and clothing. Avoid inhalation of fumes. Air contaminated rooms thoroughly. Protect against electrostatic sparks. Prevent material from reaching sewage system, holes and cellars. Dilute with much water.

- **Environmental precautions:**

- **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Waste disposal according to item 13
No dangerous materials are released.

- **Reference to other sections:**

7 Handling and storage

Handling

- **Precautions for safe handling:**

Avoid contact with eyes and skin. Keep containers tightly sealed. Store only in the original containers. Ensure sufficient ventilation.

- **Information about protection against explosions and fires:**

Observe the general rules of industrial fire protection.

Conditions for safe storage, including any incompatibilities

- **Storage:**

Keep container tightly closed.
Store in cool, dry conditions.

- **Requirements to be met by storerooms and containers:**

Store refrigerated and protected from heat, keep protected from access by children. Store in original containers or in PE - containers.

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- **Common storage tips:** Do not store together with alkalis (caustic solutions).
- **Specific end use(s):** No further relevant information available.

8 Exposure controls / Personal protection

- **Additional information about design technical systems:**

No further data see item 7

- **Control parameters**

- **Components with critical values that require monitoring at the workplace:**

CAS Identification of the substance - Limit Value TRGS 900 / RL2000 / 39 / EC

7664-38-2 phosphoric acid (50-100%)	WEL	Short-term value: 2 mg/m ³ Long-term value: 1 mg/m ³
108-65-6 2-methoxy-1-methylethy Acetate (50-100%)	AGW	270 mg/m ³ , 50 ml/m ³ 1(l); DFG, EU, Y
Oral	DNEL (population)	1,67 mg/kg bw/day (Long-term - systemic effects)
Dermal	DNEL (population)	54,8 mg/kg bw/day (Long-term - systemic effects)
	DNEL (worker)	153,5 mg/kg bw/day (Long-term - systemic effects)
Inhalativ	DNEL (population)	33 mg/m ³ (Long-term - systemic effects)
	DNEL (worker)	275 mg/m ³ (Long-term - systemic effects)
PNEC	100 mg/l (STP)	0,29 mg/kg dw (soil)
PNEC	aqua	0,635 mg/l (freshwater) 0,0635 mg/l (marine water)
PNEC	sediment	3,29 mg/kg dw (freshwater)

64742-48-0 Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics (50-100%)
TWA (8H) Long-term value: 1000 mg/m³ dearom. mineral spirits 175-220

- **Additional information:**

The lists those were valid during the compilation were used as basis.

- **Exposure controls**

- **Personal protective equipment**

- **General protective and hygienic measures:**

The usual precautionary measures should be adhered to in handling the chemicals. Store protective clothing separately. Instantly remove any soiled and impregnated garments. Keep away from food, beverages and fodder. Wash hands during breaks and at the end of the work. Gases, fumes and aerosols should not be inhaled.

- **Breathing equipment:**

Not required.

- **Protection of hands:**

Protective gloves.

- **Material of gloves:**

Nitrile rubber, NBR, Recommended thickness of the material: ≥ 0.4 mm, Chloroprene rubber, CR Recommended thickness of the material: ≥ 0.7 mm. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- **Eye protection:**

Safety glasses at decant

- **Body protection:**

Standard protective working clothes

Chemical resistant safety-shoes or boots.

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9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form: liquid

Colour: gray / white

- **Smell:** lightly ester like

- **PH-values at 20°C:** 1,5

- **Change in condition**

Melting point/Melting range: 145° - 200° C (1013hPa) DIN 51751

Boiling point/Boiling range:

Flash point: ca. 110° C DIN 51755/51751

Inflammations point: ca. 410° C DIN 51744

Self-in flammability: Product is not self igniting.

Danger of explosion: The product is not explosive, but it is possible case of excessive heating Formation of explosive vapour - air mixtures

Vapour pressure at 20°C: ca. 38 mbar

Density at 20°C: 1,25 g/cm³

- **Solubility in / Miscibility with water:** miscible 40 mg per litre water

10 Stability and reactivity

Reactivity

- **Chemical stability**

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications. Thermal decomposition at temperatures > 200°C

- **Possibility of hazardous reactions** Violent reactions with strong alkalis.

- **Hazardous decomposition products:** Formation of carbon monoxide and carbon dioxide in case of fire

11 Toxicological information

Information on toxicological effects

- **Acute toxicity:** ---

- **LD/LC50 values that is relevant for classification:**

LD50 > 2000 mg/kg (rat, oral)

- **Sensitization:** No sensitizing effect know

- **Primary irritant effect:**

- **on the skin:** Irritant for skin and mucous membranes.

- **on the eye:** Irritant effect.

- **Sensitization:** No sensitizing effect known.

- **Narcotic Effects:** None

- **Additional toxicological information:** Vapours in higher concentration have an irritating effect on the upper respiratory tract. Very high concentrations may cause dizziness, headaches and unconsciousness.

May cause lung damage if swallowed.

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12 Ecological information

- **Toxicity**
 - **Aquatic toxicity: zebra fish:** - -
 - **Persistence and degradability** Rapidschwärzer is potentially biodegradable
 - **Behaviour in environmental systems:** - -
 - **Bio accumulative potential** No further relevant information available.
 - **Mobility in soil** No further relevant information available.
 - **Additional ecological information:** - -
 - **General notes:** Do not allow to enter drainage system, surface or ground water. Water hazard class 1 (Self-assessment): slightly hazardous for water.
- Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
 - **vPvB:** Not applicable.
 - **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:** A used product should be recycled or used in other contexts, otherwise be handed over to an appropriate disposal site. Incinerate under controlled conditions in accordance with all local and national laws and regulations
- **Waste disposal key number:** Since 01/01/99 the waste code numbers have not only been product-related but are also essentially application related. The valid waste code number of the application can be obtained from the European waste catalogue.
- **Uncleaned packagings:** Disposal must be made according to official regulations.
- **Recommendation:** Empty contaminated packaging thoroughly. They can be recycled after thorough and proper cleaning. After complete emptying and cleaning, send to be reconditioned or recycled.
- **Rented packaging:** After optimal emptying, close immediately and return to the supplier without cleaning. Care should be taken that no other materials get into the packaging.
- **Other containers:** After complete emptying and cleaning, send to be reconditioned or recycled.
- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

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14 Transport information

UN-Number

• **ADR, IMDG, IATA:** Void

UN proper shipping name

• **ADR:** Void

• **IMDG, IATA:** Void

Transport hazard class(es)

• **ADR, IMDG, IATA:** - -

• **Class:** 3 (F1) Flammable liquid

Packing group

• **ADR, IMDG, IATA:** 3 (F1) Flammable liquid

• **Special precautions for user:** Warning: Flammable liquid

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

Not applicable

Transport/Additional information

• **IATA**

• **Remarks:** Not classified as hazardous for transport (UN, IMO, ADR/RID and IATA/ICAO codes)

UN "Model Regulation": - -

15 Regulatory information

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

• **National regulations** Material group 3 (flammable liquids) mixing-swell to be observed

• **Water hazard class:** Water hazard class 1 (self assessment according to German VwVwS (Regulations for water-hazardous substances): slightly hazardous for water.

• **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

• **Relevant H-phrases:** Complete wording of hazard statements and risk phrases (H-phrases) mentioned in section 3. These phrases refer to the constituents. The labelling for this product is stated in section 2.

H226 Flammable liquid and vapour

H304 May be fatal if swallowed and enters airways

H314 Causes severe skin burns and eye damage

H290 May be corrosive to metals

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• **Department issuing data specification sheet:** see item 1: Informing department

• **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)
RID:	Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG:	International Maritime Code for Dangerous Goods
IATA:	International Air Transport Association
ICAO:	International Civil Aviation Organization
GHS:	Globally Harmonized System of Classification and Labelling of Chemicals
CLP:	Classification, Labelling and Packaging (Regulation (EC) No. 1272/2008)
EINECS:	European Inventory of Existing Commercial Chemical Substances
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent

• * **Data compared to the previous version altered.**

