



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

Product name Reichmann

SDS no. 452309

Use of the substance/preparation Metalworking fluid - soluble.
For specific application advice see appropriate Technical Data Sheet or consult our company representative.

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2. Hazards identification

This preparation is classified as dangerous according to Directive 1999/45/EC as amended and adapted.

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

Additional hazards Not classified as dangerous when diluted below 10%

See sections 11 and 12 for more detailed information on health effects and symptoms and environmental hazards.

3. Composition/information on ingredients

Corrosion inhibitors and additives in aqueous solution.

Chemical name	CAS no.	%	EINECS / ELINCS.	Classification
Poly quaternary ammonium chloride	31075-24-8/ 31512-74-0	0.1 - 1		Xn; R20 N; R50/53 [1]

See section 16 for the full text of the R-phrases declared above

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] PBT-substance

[4] vPvB-substance

Occupational exposure limits, if available, are listed in section 8.

4. First-aid measures

Eye contact In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

Skin contact Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if irritation develops.

Inhalation If inhaled, remove to fresh air. Get medical attention if symptoms appear.

Ingestion Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Wash out mouth with water if person is conscious. If potentially dangerous quantities of this material have been swallowed, call a physician immediately.

Notes to physician Treatment should in general be symptomatic and directed to relieving any effects.

5. Fire-fighting measures

Extinguishing media

Suitable In case of fire, use water fog, foam, dry chemical or carbon dioxide extinguisher or spray. This material is harmful to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Not suitable Do not use water jet.

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Hazardous decomposition products	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
Unusual fire/explosion hazards	This material is not explosive as defined by established regulatory criteria.
Special fire-fighting procedures	None identified.
Protection of fire-fighters	Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.



6 . Accidental release measures

Personal precautions	 No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
Environmental precautions	 Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material.
Large spill	 Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see section 1 for emergency contact information and section 13 for waste disposal.
Small spill	 Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

7 . Handling and storage

Handling	Avoid breathing vapour or mist. Avoid prolonged or repeated contact with skin. Avoid contact of spilt material and runoff with soil and surface waterways. Wash thoroughly after handling.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area. Protect from freezing.
Germany - Storage code	12

8 . Exposure controls/personal protection

Ingredient name	Occupational exposure limits
ACGIH TLVs	
 Triethanolamine	ACGIH TLV (United States). TWA: 5 mg/m³ 8 hour(s). Issued/Revised: 9/1994
For information and guidance, the ACGIH values are included. For further information on these please consult your supplier.	
 Whilst specific OELs for certain components may be shown in this section, other components may be present in any mist, vapour or dust produced. Therefore, the specific OELs may not be applicable to the product as a whole and are provided for guidance only.	
Exposure controls	
Occupational exposure controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits. Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.
Personal protective equipment	
Respiratory protection	None required. However, use of adequate ventilation is good industrial practice.
Hand protection	Wear protective gloves if prolonged or repeated contact is likely. Chemical-resistant gloves. Recommended: nitrile gloves The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.
Eye protection	Safety glasses with side shields.
Skin and body	Wear appropriate clothing to avoid prolonged skin contact.

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9 . Physical and chemical properties

General information

Appearance

Physical state	Liquid.
Colour	Yellow. [Light]
Odour	Mild

Important health, safety and environmental information

Flash point	Closed cup: >100°C (>212°F)
pH	9.1 [Conc. (% w/w): 3%]
Boiling point / range	100°C (>212°F)
Pour point	<0 °C
Density	>1000 kg/m ³ (>1 g/cm ³) at 20°C
Solubility	Soluble in water.
Partition coefficient (LogKow)	<1

10 . Stability and reactivity

Stability	The product is stable.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	High temperatures
Materials to avoid	Slightly reactive or incompatible with the following materials: acids.
Hazardous decomposition products	Combustion products may include the following: carbon oxides nitrogen oxides Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 . Toxicological information

Chronic toxicity	
Chronic effects	No known significant effects or critical hazards.
Effects and symptoms	
Eyes	May cause eye irritation.
Skin	Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis.
Inhalation	Vapours and aerosol can produce mucous membrane, nose and throat irritation.
Ingestion	Ingestion may cause gastrointestinal irritation and diarrhoea.

12 . Ecological information

Persistence/degradability	Inherently biodegradable
Mobility	Liquid. Soluble in water.
Environmental hazards	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

13 . Disposal considerations

Disposal considerations / Waste information	The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
Unused product	
European waste catalogue (EWC)	12 01 10* synthetic machining oils However, deviation from the intended use and/or the presence of any potential contaminants may require an alternative waste disposal code to be assigned by the end user.
Packaging	
European waste catalogue (EWC)	15 01 10* packaging containing residues of or contaminated by dangerous substances However, deviation from the intended use and/or the presence of any potential contaminants may require an alternative waste disposal code to be assigned by the end user.

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14 . Transport information

Not classified as hazardous for transport (ADR/RID, ADN, IMDG, ICAO/IATA)


15 . Regulatory information

Classification and labelling have been performed according to EU directives 1999/45/EC and 67/548/EEC as amended and adapted.

Label requirements

Risk phrases	R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety phrases	S61- Avoid release to the environment. Refer to special instructions/safety data sheet.
Other regulations	
Europe inventory	 All components are listed or exempted.
United States inventory (TSCA 8b)	 All components are listed or exempted.
Australia inventory (AICS)	 At least one component is not listed.
Canada inventory	 At least one component is not listed.
China inventory (IECSC)	 At least one component is not listed.
Japan inventory (ENCS)	 At least one component is not listed.
Korea inventory (KECI)	 At least one component is not listed.
Philippines inventory (PICCS)	 At least one component is not listed.
Hazard Class for water (WGK), according to VwVwS	 Appendix No. 4

16 . Other information

Full text of R-phrases referred to in sections 2 and 3	 R20- Harmful by inhalation. R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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History

Date of issue/ Date of revision	09/02/2010.
Date of previous issue	10/07/2007.
Prepared by	Product Stewardship

Notice to reader

 Indicates information that has changed from previously issued version.

All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.

The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from us.

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The BP Group shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken.

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