


Safety Data Sheet according to directive 91/155/EEC	Creation date: 15.12.2005 Reviewed on: 19.12.2006 Printing date: 13.02.2007	
	Art.-No.: 06.5015 / 06.5016	RONOL SYN

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

Trade name: RONOL SYN, High performance threading oil

Company: ROTHENBERGER Werkzeuge GmbH
 Industriestr. 7
 65779 Kelkheim
 Phone: + 49 (0) 6195 – 800 1

2. Composition / information on ingredients

Composition: Water miscible compound of polyols and additives for protection against corrosion and abrasion.

Hazard compounds

Description	CAS No.	Symbols	R-sets*	Content
Amine neutralized phosphoric acid ester	-	Xi	36/38	< 2,5%

* exact description of R-sets: see item 15.

3. Hazards identification

Classification: None – if used as directed.

Specific hazards for human And environment: No compulsory identification required due to the calculation guide lines of the “General rating principles for preparations of the EC” in its latest issue.

Classification system: The classification corresponds to the current EC-lists, but it is supplemented by information from specialized literature and information provided from the companies.

4. First-aid measures

If inhaled: N/A
On skin contact: Wash off with water and soap. Take off soaked clothing.
On contact with eyes: Rinse eyes thoroughly with plenty of water. Seek medical advice.
After ingestion: Rinse mouth and drink water.


5. Fire-fighting measures

Extinguishing media: N/A, as product is not burnable.

Possible products of combustion: Little amounts of nitric oxides, phosphor oxides and carbon monoxides possible.

Hazardous combustion products: Keep away from flames and hot surfaces. No smoking.

Special protective equipment: N/A

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6. Accidental release measures


Personal precautions:	Avoid contact with eyes, skin and clothing.
Environmental precautions:	N/A
Methods for cleaning up:	N/A

7. Handling and storage

Advice for dealing:	Avoid contact with skin and eyes. Avoid fog and aerosol formation.
Advice for fire and explosion protection:	Avoid fog and aerosol formation. No special measurements necessary.
Requirements to storage place And containers:	Observe water protection regulations. Store cool and dry, if possible in original container.
Advice on storage:	Do not store with strong oxidizing agents.
Further information to storage conditions:	Protect from frost and solar insulation.

8. Exposure controls / personal protection

Additional advice for the design of technical plants:	No further advice, see item 7.
General protection and hygiene measurements:	Observe the normal precautions when handling chemicals. Change soaked clothes, avoid linger and intensive skin contact. Avoid contact with eyes. Wash hands before break and when finishing work. Protective skin care with skin-care products.
Respiratory protection:	Not necessary at well-ventilated rooms.
Hand protection:	Use chemical-resistant safety gloves (EN 374). Suitable materials even at longer, direct contact: (recommended protection index 6, corresponding to > 480 min. permeation time acc. to EN 374). Polyvinylchloride (PVC) – 0,7 mm thickness. Observe manufacturer's instructions.
Additional advice:	These statements are based on own tests, literature and information of gloves' manufacturers' or are derived from conclusion of analogy of similar products. It must be considered, that, in practice, the daily lifetime of a chemical protection glove is due to many influencing factors (e.g. temperature) essentially shorter than the permeation and insufficient ventilation.
Eye protection:	Safety goggles with side protection, in case of oil fog formation and insufficient ventilation.
Body protection:	Industrial safety clothing.

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9. Physical and chemical properties

Physical state at 20°C: Liquid.
Colour: Colourless. Can be red coloured.
Odour: Neutral.

Changes in Physical State at 1013 hPa:

- Melting Point (°C): -
 - Boiling Point (°C): ≥ 100
 Flashpoint (°C): N/A
 Ignition Temperature (°C): N/A
 Explosion Limits (% vol.): N/A
 Density at 20 °C (g/cm³): 1,10
 Solubility in Water at 20°C: Soluble.
 PH-value (10% in water): 7 – 9
 Viscosity at 40 °C (mm²/s): 13,5

10. Stability and reactivity

Hazardous decomposition products: In case of combustion of the dewatered residue formation of carbon monoxide, phosphor oxides and nitric oxides possible.

11. Toxicological information

Acute toxicity: LD50 (oral)/rat: >20000 mg/kg (calculated)
 LD50 (dermal)/rabbit: -
 Eye irritation: -

12. Ecological information


Biological degradability: After 10 days the non-aqueous part can be biologically degraded by 90% (spline-shaft test).
Water hazard class VwVwS: 1

13. Disposal considerations

Waste: Avoid waste. The product must be disposed according to waste management law in waste combustion dumps.
Waste code acc. to AVV: 12 01 09, halogen-free processing emulsions and solvents.

14. Transport information

Overland transport ADR/RID and GGVS/GGVE (border crossing/internal): Not classified as hazardous for transport.
Sea transport IMDG/GGVSee: Not classified as hazardous for transport.
Air transport ICAO-TI and IATA-DGR: Not classified as hazardous for transport.
Mail (internal): Allowed.

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15. Regulatory information

Labelling in accordance with EC-regulations:

Observe the usual precautions when handling with chemicals. There is no compulsory identification acc. to EC-regulations required.

R-sets:

36/38 - Irritates the eyes and the skin.

S-sets:

-

Classification acc. to VbF:

N/A

Water hazardous class acc. to VwVwS:

1

16. Other information

Other information:

None.

Important advice:

All data are based on the current state of knowledge. This safety data sheet is to procure all physical, safety regulating, toxicological and ecological data and recommendations for the use of chemical substances when storing, applying and during transport. It is to support the protection of humans and environment by correct information. These specific statement for occupational safety are for security officers and safety experts as well as for industrial medics, toxicologists and governmental monitoring bodies. Please, pass these information to the responsible departments.

