

MATERIAL SAFETY DATA SHEET



1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Commercial Name: Binol Rail 515
Manufacturer name: AarhusKarlshamn Sweden AB
address: 374 82 KARLSHAMN, SWEDEN
phone: +46 454 828 00
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2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance or Composition: Composition based on vegetable oils
Hazardous components: None
Hazardous impurities: Not concerned

3. HAZARDS IDENTIFICATION

Health: Under ordinary typical use, the product is considered as non-toxic and safe.
Environment: Experiments made on this and similar products indicate that the product can be considered as of low danger to the environment. However, regulations forbid the disposal of used lubricants in the environment without special permit.
Physical-chemical hazards: No particular risk of ignition or explosion.
Specific risks: None known.

The product is considered not hazardous according to the EU Dangerous Substances/Preparations Directives classification scheme (67/548/EEG, last amended 1999/45/EG).

4. FIRST AID MEASURES

Inhalation: Not concerned.
Skin contact: Wash with detergent and water.
Eye splashes: Flush with water.
Ingestion: Drink water or milk. Do not induce vomiting.

5. FIRE-FIGHTING MEASURES

Extinguishing media
recommended: CO₂, dry powder, foam.
not recommended: Water in a jet.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: None necessary.
Environment protection: Avoid pollution of sewers and water.
Cleaning means: Removal with inert absorbent or sand.

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7. HANDLING AND STORAGE

Handling

Personal protection: Avoid prolonged and repeated contact with skin. Remove soaked clothes.

Storage

Recommended conditions: Storage temperature -10 to +40°C. Extended storage periods at temperatures below -20 and above +40 °C should be avoided. Store in closed container, preferably as delivered. Storage stability is at least 12 months.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Technical measures: None necessary.

Personal protective equipment

Respiratory protection: Not necessary in normal use.

Hand protection: Impermeable gloves recommended.

Eye protection: Safety goggles recommended.

Others: Not necessary.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Transparent grease/paste
Colour: Yellowish white
Odour: Vegetable oil related
pH value: Not applicable
Flash point (Closed Cup): >197 °C
Melting point: +50°C
Pourability: ≤25 °C
Auto ignition temperature: Not concerned
Explosion range: Not concerned
Vapour pressure: Negligible under normal conditions
Density (20°C): 920 kg/m³
Solubility in water: Insoluble
Solubility in organic solvents: Soluble

10. STABILITY AND REACTIVITY

Stability: Stable product under normal conditions.

Hazardous reactions: None known.

Conditions to be avoided: Elevated temperatures (>>100°C)

Hazardous decomposition products: None known.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity (OECD 401): LD₅₀ rat >5000 mg/kg (ie not toxic)

Skin irritation (OECD 404, rabbit): Not irritating

Ames test: Negative (ie not mutagenic)

The results are concluded values based on information on the ingredients and tests conducted on similar products. The formulated product has not been tested on animals.

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12. ECOLOGICAL INFORMATION

Aquatic toxicity (OECD 201-203): $LC_{50} < 100$ mg/l

Biodegradability: The product is readily biodegradable according to CEC L-33-A-93 (with the result > 70 % after 21 days).

The product does not contain any environmentally hazardous classified components according to the EU Dangerous Substances/Preparations Directives (67/548/EEG, last amended 1999/45/EG).

13. DISPOSAL CONSIDERATIONS

Used product: As per existing regulations.

Used packaging: As per existing regulations.

14. TRANSPORT INFORMATION

The product is not classified as dangerous goods.

15. REGULATORY INFORMATION

Symbols: None

Risk phrases: None

Safety phrases: None

No labelling required according to EU Regulations.

16. OTHER INFORMATION

The product is a vegetable oil-based grease preferably used for lubricating (railway) rail joints and swiches.