

MANNOL[®] MATERIAL SAFETY DATA SHEET

Prepared according to Annex II of EC Regulation 1907/2006

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Chain Lube

Product Use: Used for lubrication

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Company Information: Sudheimer Car Technik Vertriebs GmbH

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2. HAZARDS IDENTIFICATION

Principal Hazards: If the product comes in contact with skin, eyes flush immediately with plenty of water. In case of swallowing please contact the physician.

Labelling: --

Dangerous compounds: see chapter 3; R-sentence descriptions, see chapter 16.

Additional advices / hints: Please advise the personal stuff of the a.m. product components.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients: (in acc. to Dangerous Preparation Directive 1999/45/EC)

CAS No.	Name	Weight %	Symbols/Risk Phrases
8042-47-5	White mineral oil	32	
7620-77-1	Lithium 12-Hydroxystaerate	12	
---	Additive	6	
---	Solvent	15	
68476-85-7	LPG	35	

4. FIRST AID MEASURES

Ingestion: DO NOT INDUCE VOMITING. If conscious, give victim a glass of water or milk. Get immediate medical attention. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Eyes: Flush immediately with water for at least 15 minutes. Get immediate medical attention.

Skin: Wash with soap and water. Remove contaminated clothing. Get medical attention of irritation develops. Launder contaminated clothing before reuse.

Inhalation: Remove exposed person to fresh air. . If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

5. FIRE FIGHTING MEASURES

Flash Point: > -10°C

Flash Point Method: open-cup test

Burning Rate: not determined

Autoignition Temperature: >350°C

Lower Flammable Limit (LFL): 1.81-5.0%

Upper Flammable Limit (UFL): 11.5-27%

Flammability Classification: not determined

Extinguishing Media: Dry chemical, foam, carbon dioxide., sand . Water may be an ineffective extinguishing medium.

General Fire Hazards: This product is combustible at high temperatures. Toxic fumes, gases or vapors may evolve on burning.

Hazardous Combustion Products: Carbon monoxide and carbon dioxide.

Fire-Fighting Equipment/Instructions: Use water spray to cool fire-exposed containers and as a protective screen. Wear full set of protective equipment including chemical goggles and gloves.

6. ACCIDENTAL RELEASE MEASURES

Containment Procedures: Contain the discharge material. Eliminate all sources of ignition or flammables that may come into contact with a spill of this material.

Clean-Up Procedures: Attempt to reclaim the free product, if this is possible. If molten product spilled, solidify and recover.

Evacuation Procedures: Isolate area. Keep unnecessary personnel away.

Special Instructions: Avoid inhalation of fumes from molten product. Avoid skin contact with molten resins. Wear appropriate protective equipment and clothing during clean-up. Do not allow the spilled product to enter public drainage systems or open water courses.

7. HANDLING AND STORAGE

Maximum Storage Temperature: Not determined.

Storage Procedures: Keep the container tightly closed and in a cool, well-ventilated place. Store away from strong oxidizers. Do not store this material in open and unlabeled containers.

Handling Procedures: Avoid breathing fumes if this product is used at high temperatures. Keep away from potential sources of ignition. Wash hands after handling and before eating.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

General information: If oil mists are generated, observe the OSHA exposure limit of 5 mg/m³.

Component Exposure Limits: No ACGIH, NIOSH or OSHA exposure guidelines listed for the product's components.

Engineering Controls: Use general ventilation and use local exhaust, where possible, in confined or enclosed spaces.

Eye / Face Protection: Wear safety goggles or faceshield when working with melted material.

Skin Protection: Chemically resistant gloves with thermal protection when working with melted paraffin.

Respiratory Protection: Under normal conditions, respirator is not normally required.

General: Use good industrial hygiene practices.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colorless to light yellow transparent liquid

Flash Point: >100°C COC

Upper Flammable Limit: Not determined.

Lower Flammable Limit: Not determined.

Autoignition Point: >350°C

Vapour Pressure: Compressed gas

pH: 5.5

Water Solubility: Not determined

Evaporation Rate:	Slow
Odour Threshold:	not determined.
Boiling Point:	Not determined.
Pour Point Temperature:	Not determined.

10. STABILITY AND REACTIVITY

Chemical Stability: Stable

Hazardous Polymerization: Hazard polymerization will not occur.

Chemical Incompatibilities: Strong oxidizing agents, strong acids and strong base

Conditions to Avoid (Stability): Avoid excessive heat and all sources of ignition.

Hazardous Decomposition Products: Carbon dioxide, carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Acute Exposure- This material is typically inert. Paraffin fumes are a result of overheating product. Fumes are known to be mildly irritating to the nose, throat, and eyes.

Dermal Toxicity: No data available.

Inhalation Toxicity: No data available.

Oral: No data available.

Dermal Sensitization: No data available to indicate product or components may be a primary skin sensitizer. Therefore prolonged contact should be avoided.

Inhalation Sensitization: No data available to indicate product or components may be respiratory sensitizers.

Chronic Toxicity: No data available.

Carcinogenicity: None of this product's components are listed by ACGIH, IARC, NIOSH, NTP or OSHA.

Acute toxicity of the additive: Inhalation LC50: No data available.

Mutagenicity: No data available.

Reproductive Toxicity: No data available.

Teratogenicity: No data available.

Other: No other health hazards known.

12. ECOLOGICAL INFORMATION-ENVIRONMENTAL TOXICITY

Freshwater Fish Toxicity: Not determined.

Freshwater Invertebrates Toxicity: Not determined.

Algae Toxicity: Not determined.

Saltwater Fish Toxicity: Not determined.

Saltwater Invertebrates Toxicity: Not determined.

Bacteria Toxicity: Not determined.

Miscellaneous Toxicity: Not determined.

ENVIRONMENTAL FATE -

Biodegradation: No information available.

Bioaccumulation: Not determined.

Soil Mobility: Not determined.

13. DISPOSAL CONSIDERATIONS

Waste Disposal: Incinerate the material under controlled conditions in an approved incinerator.

14. TRANSPORT INFORMATION

Proper Shipping Name: Aerosols, Flammable

Hazard Class: 2.1

Identification number: N/A

ADR/RID class: 2.1

IMDG Class: IMO 2.1

ICAO/IATA Class: 2.1

Packing Group: II

EMS Number: F-D S-D S-U

MFAG: F-D S-D S-U

UN-Number: 1950

15. REGULATORY INFORMATION

General Product Information: All components of this product are listed on the U.S. EPA TSCA Inventory.

Component Information: None of this product's components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) or CERCLA (40 CFR 302.4).

Other Regulations:

General Product Information: All known (non-proprietary) components of this product are listed on the EINECS inventory of existing chemicals.

Component Information: None of this product's components are listed on the Canadian Controlled Product Ingredient Disclosure List.

16. OTHER INFORMATION

Explanations of R-phrases in section 3:

R 51/53 – toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R36/37/38 – Irritating to eyes, respiratory system and skin.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.