

Safety data sheet
in accordance with 1907/2006 EC, Article 31

Printing date: 27.02.2012

Revision: 27.02.2012

1. Identification of the substance/mixture and of the company/undertaking**Product identifier****Product name:** SF 01 perma multi purpose grease**Product description:** Lubricating grease**Manufacturer/supplier:**

perma-tec GmbH & Co. KG
Hammelburger Str. 21
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Emergency number: 0049 (0) 9704-609-99 (Mon - Thurs 8:00-16:30, Fri 8:00-12:00)**2. Hazards identification**

This preparation is not classified as dangerous according to Directive 1999/45/EEC in its amended and adapted version.

Additional information about personal and environmental hazards:*Possible harmful physical-chemical effects:* None known*Possible harmful effects on humans and possible symptoms:* None known*Possible harmful effects on the environment:* None known*Other hazards:* None known**3. Composition/information on ingredients****3.1 Information about the preparation/mixture***Description:*

Mineral oil product with highly refined base oils and thickeners on a carboxylic acid basis, as well as selected additives.

3.2 Hazardous substances:

Substance name	EC No.	REACH No.	Index No.	CAS No.	Content %	Classification in accordance with Regulation (EC) No. 1272/2008 [CLP]		Classification in accordance with 67/548/EEC
						Hazard classes / hazard categories	Hazards information	
Additive preparation	-	-	-		< 1%	R 36/38 R43 R 51/53		Xi,N
Alkyl succinic acid half-ester	257-836-6				< 1%	R52/53		N

3.3 Note:**Text of R-phrases and H-statements: See section 16.**

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4. First-aid measures	
General information:	Never give anything by mouth to an unconscious person. Consult a physician if you feel unwell.
After inhalation:	Not applicable
After contact with the skin:	Wash the area of skin affected with soap and copious amounts of water
After contact with the eyes:	Rinse with copious amounts of water. Consult a physician. Show your physician the safety data sheet.
After swallowing:	Do not induce vomiting unless expressly instructed to do so by a medical professional. Consult a physician. Show your physician the safety data sheet.
Self-protection for the first-aider:	After oral contamination, do not perform mouth-to-mouth resuscitation on the victim.
Information for physicians (symptoms, hazards, treatment)	
<i>Symptoms:</i>	Nausea, drowsiness.
<i>Hazards:</i>	None known.
<i>Treatment:</i>	If feeling unwell, observation for 24 hours
5. Firefighting measures	
Suitable extinguishing media:	Foam, dry powder, spray
Unsuitable extinguishing media due to safety reasons:	Water jet full
Particular hazard posed by the substance or product itself, its products of combustion or resultant gases:	Carbon monoxide, sulfur oxides, nitrogen oxides
Special fire-fighting protective equipment:	Respirator mask
6. Accidental release measures	
Personal precautions:	Avoid contact with skin and eyes. Remove any ignition sources. Provide adequate ventilation.
Environmental precautions:	Prevent from entering sewers. If the

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Clean-up methods:	product gets into surface or ground water or into the ground, possibly alert the neighborhood.
Additional information:	Use absorbent materials (cellulose cloths, universal binding agents, sawdust)
Additional information:	None.
7. Handling and storage	
Handling:	Store the product in a sealed container in a cool, dry place. Protect against frost and high temperatures.
Information for safe handling:	
<i>Precautions:</i>	No special precautions required.
<i>Technical measures:</i>	Store in ventilated areas.
<i>Precautions to prevent aerosol and dust formation:</i>	Not applicable.
<i>Environmental precautions:</i>	Do not allow to enter sewers.
<i>Specific requirements or handling regulations:</i>	Store in sealed containers intended for this purpose.
Information about fire and explosion precautions:	Keep away from ignition sources.
Further information:	None.
Storage:	
Technical measures and storage conditions	
Packaging materials:	Store only in containers intended for this purpose.
Storage area and container requirements:	Storage areas should be ventilated. Ensure that the containers are sealed during storage.
Information about storage with other products:	Do not store with oxidizing substances or strong oxidants.

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Further information about storage conditions:

<i>Storage temperature:</i>	5 °C - 40 °C
Relative air humidity (%):	Not specified
Storage stability:	No special information required.
Maximum storage period:	24 months
Storage class:	None

Intended use:

<i>Recommendations:</i>	Use as a lubricant at open and closed lubrication points.
<i>Branch solutions:</i>	No separate information.

8. Exposure controls/personal protection**Exposure limits:**

Ingredients with workplace limits or biological limits to be monitored	Base oil
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Workplace limits: -

Additional exposure limits under processing conditions:
5 mg/m³ACGIH (TLV)
5 mg/m³ OSHA (PEL)
10mg/m³ACGIH (STEL)

DN EL.DM EL and PNEC values: -

Exposure controls and monitoring: -

Workplace exposure controls and monitoring:

Product-based measures for preventing exposure: Use in closed lubrication points to prevent release.

Instructions for preventing exposure: Wear personal protective equipment.

Organizational measures for preventing exposure: Train personnel in the use of personal protective equipment.

Technical measures for preventing exposure: Install extraction equipment, in order to reduce air pollution.

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Personal protective equipment:

<i>Respiratory protection:</i>	Not required when product is used properly.
<i>Hand protection:</i>	Wear suitable protective gloves in accordance with DIN EN 374. Please ask your manufacturer for information.
<i>Eye protection:</i>	When there is a risk of potential eye contact, comply with the guidelines provided by BGR 192 (e.g. wearing goggles).
<i>Body protection:</i>	When there is a risk of potential contact with the body, wear suitable protective clothing in accordance with the information in BGR 189.

Environmental exposure controls and monitoring:

<i>Product-based measures for preventing exposure:</i>	Use product only in accordance with its intended purpose.
<i>Instructions for preventing exposure:</i>	Instruct personnel in the use of protective clothing
<i>Technical measures for preventing exposure:</i>	Provide adequate ventilation.

Consumer exposure controls and monitoring:

<i>Measures relating to the use of the substance (in its original form or in preparations) by the consumer:</i>	None
<i>Measures relating to the use of the substance in items:</i>	None

9. Physical and chemical properties

General information

Appearance	Color: Brown (light) Smell: Mineral oil
Aggregate state:	Solid
Important information about health and environmental protection and safety:	Do not allow to enter sewers. Do not allow to enter ground water.

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Basic safety-related data:

Drop point (°C):	Value	Method	Note
	> 150	DIN ISO 2176	-
Density (g/cm ³):	950	DIN EN ISO 12185	-
Water solubility (20° in g/l):	Non-soluble	-	-

Other information: None

10. Stability and reactivity

Conditions to avoid: Intense heat in excess of 200 °C.

Substances to avoid: Strong oxidants. Oxidizing substances.

Hazardous decomposition products: Carbon oxides, sulfur oxides, nitrogen oxides.

11. Toxicological information**Toxicokinetics, metabolism and distribution****Non-human-toxicological data:***Method:**Dose:* > 5000 mg/kg*Mode of administration:* Oral*Results:* LD50**Human toxicological data:** None known.**Acute effects (toxicological tests)** None available.**12. Ecological information****Ecological toxicity:****Mobility:** Penetration into ground water is improbable,

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Other harmful effects:	since the product is practically insoluble in water. None known.
Other ecological information:	None.
13. Disposal considerations	
Disposal / waste (product):	Must be disposed of by authorized waste disposal contractor.
EWC/AVV (German waste catalog ordinance) waste disposal code:	12 01 12* used waxes and greases.
Additional information:	None.
14. Transport information	
Not a hazardous substance under transport regulations.	
Land transport (ADR RID GGVSE (ordinance on the carriage of hazardous goods by road and rail)):	-
Marine transport (IMDG Code/GGVSee (ordinance on the carriage of hazardous goods by sea)):	-
Air transport (ICAO-IATA/DGR):	-
15. Regulatory information	
15.1 EU regulations	Classification and designation have been carried out in accordance with the ECDirectives 1995/45/EC and 67/54S/EEC in their amended and adapted versions
Designation (67/543/EEC or 1999/45/EC) - Hazard symbols and hazard designations for hazardous substances and preparations: - Hazardous components to be listed on the label:	-
R-phrases:	-

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<i>S-phrases:</i>	-	
<i>Note:</i>	-	
<i>Special designation of certain preparations:</i>	-	
Approvals and/or restrictions of use:	-	
Other EU regulations	-	
National regulations (Germany)		
Water hazard class (VwVwS)	1	
16. Other information		
Text of R-phrases and H-statements:	-	
Training information:	-	
Recommended restrictions of use:		Only use in accordance with the intended purpose.
Categories of use and exposure (overview):	-	
Additional information:	-	
Data sources:		
		EC Directive 67/548/EEC in the applicable version.
		EC Directive 1999/45/EC in the applicable version.
		EC Directive 1907/2006/EC in the applicable version.
		Notice 220 in the applicable version.
		Transport regulations in accordance with ADR, RID, IMDG. IATA in the applicable version.

Important information:

All information is based on our current knowledge. The purpose of the safety data sheet is to provide the main physical, safety-related, toxicological and ecological data for the handling of chemical substances and preparations, together with recommendations for safe storage, usage and transportation. The aim is to provide correct information for personal and environmental protection. These specialist industrial safety statements are intended for use by safety officers, experts and engineers, as well as occupational health physicians, toxicologists and state supervisory bodies. Please pass on this information to the relevant departments and authorities.