according to Regulation (EC) No. 1907/2006 - en



# perma Multipurpose bio grease SF09

Version 1.3 Revision Date 23.08.2017 Print Date 23.08.2017

## 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name : perma Multipurpose bio grease SF09

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the : Grease

Substance/Mixture

Recommended restrictions

on use

: Restricted to professional users.

## 1.3 Details of the supplier of the safety data sheet

perma-tec GmbH & Co. KG Hammelburger Str. 21 97717 EUERDORF

**GERMANY** 

Tel: +49 9704 609-0 Fax: +49 9704 609-50 info@perma-tec.com

E-mail address : msds@perma-tec.com

Responsible/issuing person

National contact : H-T-L perma UK Lakeside House

1 Furzeground Way Stockley Park

**UXBRIDGE UB11 1BD** 

MIDDLESEX

UNITED KINGDOM Phone: +44 20 8622 3076 Fax: +44 20 8622 3200 www.perma-tec.com

1.4 Emergency telephone number

+49 9704 609-99 (Mo-Do 08:00-16:30, Fr 08:00-12:00)

## 2. Hazards identification

## 2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

#### 2.2 Label elements

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#### Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

#### Additional Labelling:

EUH210 Safety data sheet available on request.

EUH208 Contains: Benzenesulfonic acid, di-C10-18-alkyl derivs., calcium saltsMay produce an allergic reaction.

#### 2.3 Other hazards

## 3. Composition/information on ingredients

#### 3.2 Mixtures

Chemical nature : ester oil

polyurea

#### Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Polyurea	1266545-66-7 / 01-0000017721-73-0000 / 01-0000017721-73-0003 / 01-0000017721-73-0001 /	Aquatic Chronic 4; H413	>= 10 - < 20
2,5-bis(tert- dodecyldithio)-1,3,4- thiadiazole	59656-20-1 261-844-5	Aquatic Chronic 3; H412	>= 1 - < 2.5
Benzenesulfonic acid, di-C10-18-alkyl derivs., calcium salts	93820-57-6 298-637-4	Skin Sens. 1B; H317	>= 0.1 - < 1

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 4. First aid measures

#### 4.1 Description of first aid measures

If inhaled : Remove person to fresh air. If signs/symptoms continue, get

medical attention.

Keep patient warm and at rest.

If breathing is irregular or stopped, administer artificial

respiration.

: Remove contaminated clothing. If irritation develops, get In case of skin contact

medical attention.

In case of contact, immediately flush skin with plenty of water.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,

for at least 10 minutes.

If eye irritation persists, consult a specialist.

If swallowed : Move the victim to fresh air.

Do not induce vomiting without medical advice.

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4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

Risks : None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No information available.

#### 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide.

Unsuitable extinguishing

media

: High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

: Fire may cause evolution of: Carbon oxides

Nitrogen oxides (NOx)

Sulphur oxides

5.3 Advice for firefighters

Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

In the case of respirable dust and/or fumes, use self-contained

breathing apparatus.

Exposure to decomposition products may be a hazard to

health.

Further information : Standard procedure for chemical fires.

#### 6. Accidental release measures

# 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Evacuate personnel to safe areas.

Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release

(dust).

Avoid breathing dust.

Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Environmental precautions : Try to prevent the material from entering drains or water

courses.

Local authorities should be advised if significant spillages

cannot be contained.

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#### 6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Clean up promptly by sweeping or vacuum.

Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

For personal protection see section 8.

#### 7. Handling and storage

## 7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Wash hands and face before breaks and immediately after

handling the product.

#### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: Store in original container.

Keep container closed when not in use. Keep in a dry, cool and well-ventilated place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

Store in accordance with the particular national regulations.

Keep in properly labelled containers.

#### 7.3 Specific end use(s)

: Consult the technical guidelines for the use of this

substance/mixture.

#### 8. Exposure controls/personal protection

#### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

**DNEL** 

2,5-bis(tert-dodecyldithio)-

1,3,4-thiadiazole

: End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 4.408 mg/m3

End Use: Workers

Exposure routes: Skin contact

Potential health effects: Long-term systemic effects

Value: 6.25 mg/kg bw/day

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**PNEC** 

2,5-bis(tert-dodecyldithio)- : Fr

1,3,4-thiadiazole

: Fresh water

Value: 0.041 mg/l

Marine water

Value: 0.0041 mg/l

Intermittent use/release

Value: 0.41 mg/l

Microbiological Activity in Sewage Treatment Systems

Value: 8000 mg/l

Fresh water sediment Value: 380.62 mg/kg

Marine sediment Value: 38.06 mg/kg

Soil

Value: 308.98 mg/kg

Oral

Value: 6.67 mg/kg

#### 8.2 Exposure controls

## **Engineering measures**

Maintain air concentrations below occupational exposure standards.

#### Personal protective equipment

Respiratory protection : Not required; except in case of aerosol formation.

Filter type P

Hand protection : Wear protective gloves.

The selected protective gloves have to satisfy the

specifications of EU Directive 89/686/EEC and the standard

EN 374 derived from it.

The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has

to be measured for each case. In case of contact through splashing:

: Nitrile rubber

Protective index Class 1

Eye protection : Tightly fitting safety goggles

Hygiene measures : Wash face, hands and any exposed skin thoroughly after

handling.

Protective measures : The type of protective equipment must be selected according

to the concentration and amount of the dangerous substance

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at the specific workplace.

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to

the specific work-place.

**Environmental exposure controls** 

General advice : Try to prevent the material from entering drains or water

courses.

Local authorities should be advised if significant spillages

cannot be contained.

#### 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form : paste

Colour : beige

Odour : characteristic

Odour Threshold : No data available

pH : No data available

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : Not applicable

Evaporation rate : No data available

Flammability (solid, gas) : Combustible Solids

Lower explosion limit : No data available

Upper explosion limit : No data available

Vapour pressure : < 0.001 hPa, 20 °C

Relative vapour density : No data available

Density : 0.94 g/cm3, 20 °C

Water solubility : insoluble

Solubility in other solvents : No data available
Partition coefficient: n- : No data available

octanol/water

Auto-ignition temperature : No data available

Ignition temperature : No data available

Thermal decomposition : No data available

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Explosive properties : Not explosive

Oxidizing properties : No data available

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#### 9.2 Other information

Sublimation point : No data available **Bulk density** : No data available

## 10. Stability and reactivity

## 10.1 Reactivity

No hazards to be specially mentioned.

#### 10.2 Chemical stability

Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

#### 10.4 Conditions to avoid

Conditions to avoid : No conditions to be specially mentioned.

#### 10.5 Incompatible materials

Materials to avoid : No materials to be especially mentioned.

## 10.6 Hazardous decomposition products

Hazardous decomposition

products

: No decomposition if stored and applied as directed.

## 11. Toxicological information

#### 11.1 Information on toxicological effects

#### Product

Acute oral toxicity : This information is not available. : This information is not available. Acute inhalation toxicity Acute dermal toxicity : This information is not available. Skin corrosion/irritation : This information is not available. Serious eye damage/eye : This information is not available.

Respiratory or skin

irritation sensitisation

: This information is not available.

Germ cell mutagenicity

Genotoxicity in vitro : No data available Genotoxicity in vivo : No data available : No data available Carcinogenicity Reproductive toxicity : No data available Teratogenicity : No data available

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Repeated dose toxicity : This information is not available.

Aspiration toxicity : This information is not available.

Further information : Information given is based on data on the components and

the toxicology of similar products.

#### Components:

2,5-bis(tert-dodecyldithio)-1,3,4-thiadiazole:

Acute oral toxicity : LD50: > 5,000 mg/kg, Rat, OECD Test Guideline 401

Acute inhalation toxicity : LC50: > 2.75 mg/l, 4 h, Rat, vapour, OECD Test Guideline

403, The substance or mixture has no acute inhalation

toxicity,

An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration., Information given is based on data obtained

from similar substances.

Acute dermal toxicity : LD50: > 2,000 mg/kg, Rat, OECD Test Guideline 402, The

substance or mixture has no acute dermal toxicity, Information given is based on data obtained from similar

substances.

Skin corrosion/irritation : Rabbit, Result: No skin irritation, Classification: No skin

irritation, OECD Test Guideline 404

Serious eye damage/eye

irritation

Rabbit, Result: No eye irritation, Classification: No eye

irritation, OECD Test Guideline 405

Respiratory or skin

sensitisation

Buehler Test, Guinea pig, Result: Did not cause sensitisation

on laboratory animals., Classification: Did not cause

sensitisation on laboratory animals., OECD Test Guideline

406

Germ cell mutagenicity

Genotoxicity in vitro : In vitro mammalian cell gene mutation test, Chinese hamster

fibroblasts, with and without metabolic activation, Result: negative, OECD Test Guideline 473, Information given is

based on data obtained from similar substances.

Assessment : Tests on bacterial or mammalian cell cultures did not show

mutagenic effects.

STOT - single exposure : Assessment: The substance or mixture is not classified as

specific target organ toxicant, single exposure.

Repeated dose toxicity : Rat, Oral, No observed adverse effect level, 250 mg/kg,

OECD Test Guideline 421, Information given is based on data

obtained from similar substances.

STOT - repeated exposure : Assessment: The substance or mixture is not classified as

specific target organ toxicant, repeated exposure.

## Benzenesulfonic acid, di-C10-18-alkyl derivs., calcium salts:

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Acute oral toxicity : LD50: > 5,000 mg/kg, Rat, OECD Test Guideline 401

Acute inhalation toxicity : LC50: > 1.9 mg/l, 4 h, Rat, dust/mist, The substance or

mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50: > 5,000 mg/kg, Rabbit

Skin corrosion/irritation : Result: No skin irritation, Classification: No skin irritation

Serious eye damage/eye

irritation

: Result: No eye irritation, Classification: No eye irritation

Respiratory or skin : Result: The product is a skin sensitiser, sub-category 1B., sensitisation : Classification: The product is a skin sensitiser, sub-category

1B.

#### 12. Ecological information

### 12.1 Toxicity

# Product:

Toxicity to fish

No data available

Toxicity to daphnia and other

aquatic invertebrates

No data available

Toxicity to algae

No data available

Toxicity to bacteria

No data available

#### Components:

#### Polvurea:

Toxicity to fish : LC50: > 100 mg/l, 96 h, Danio rerio (zebra fish), static test,

OECD Test Guideline 203, GLP: yes

Toxicity to daphnia and other

aquatic invertebrates

: EC50: > 100 mg/l, 48 h, Daphnia magna (Water flea), Immobilization, OECD Test Guideline 202, GLP: yes

## 2,5-bis(tert-dodecyldithio)-1,3,4-thiadiazole:

Toxicity to fish : LC50: > 1,000 mg/l, 96 h, Pimephales promelas (fathead

minnow)

Toxicity to daphnia and other

aquatic invertebrates

: EC50: 41 mg/l, 48 h, Daphnia magna (Water flea), OECD Test

Guideline 202

Toxicity to algae : EC50: > 100 mg/l, 72 h, Pseudokirchneriella subcapitata

(green algae), Growth inhibition, OECD Test Guideline 201

#### **Ecotoxicology Assessment**

Acute aquatic toxicity : Harmful to aquatic life.

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

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Benzenesulfonic acid, di-C10-18-alkyl derivs., calcium salts:

Toxicity to fish : LC50: > 100 mg/l, 96 h, Oncorhynchus mykiss (rainbow trout),

OECD Test Guideline 203

Toxicity to daphnia and other

aquatic invertebrates

: EC50: > 100 mg/l, 48 h, Daphnia magna (Water flea), OECD

Test Guideline 202

Toxicity to algae : EC50: > 100 mg/l, 72 h, Pseudokirchneriella subcapitata

(green algae), OECD Test Guideline 201

Toxicity to bacteria : EC50: > 10,000 mg/l, 3 h, activated sludge, static test

12.2 Persistence and degradability

Product:

Biodegradability

No data available : No data available

Physico-chemical removability

removability Components:

2,5-bis(tert-dodecyldithio)-1,3,4-thiadiazole:

Biodegradability : Primary biodegradation, 0 %, Result: Not readily

biodegradable., Exposure time: 28 d, activated sludge, OECD

Test Guideline 301C

Benzenesulfonic acid, di-C10-18-alkyl derivs., calcium salts:

Biodegradability : Result: Not readily biodegradable.

12.3 Bioaccumulative potential

Product:

Bioaccumulation :

This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT)., This mixture contains no substance considered to be very persistent and

very bioaccumulating (vPvB).

Components:

2,5-bis(tert-dodecyldithio)-1,3,4-thiadiazole:

Bioaccumulation : Fish, Bioconcentration factor (BCF): 3.16

Benzenesulfonic acid, di-C10-18-alkyl derivs., calcium salts:

Bioaccumulation : Bioconcentration factor (BCF): 70.8

12.4 Mobility in soil

**Product:** 

Mobility : No data available Distribution among : No data available

environmental compartments

12.5 Results of PBT and vPvB assessment

**Product:** 

according to Regulation (EC) No. 1907/2006 - en



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Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

Components:

2,5-bis(tert-dodecyldithio)-1,3,4-thiadiazole:

Assessment : Non-classified PBT substance, Non-classified vPvB substance

Benzenesulfonic acid, di-C10-18-alkyl derivs., calcium salts:

Assessment : Non-classified PBT substance, Non-classified vPvB substance

12.6 Other adverse effects

**Product:** 

Additional ecological

information

: No information on ecology is available.

#### 13. Disposal considerations

#### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water

courses or the soil.

: Waste codes should be assigned by the user based on the

application for which the product was used.

Contaminated packaging : Empty containers can be landfilled, when in accordance with

the local regulations.

#### 14. Transport information

#### 14.1 UN number

ADR

Not dangerous goods

**IMDG** 

Not dangerous goods

IATA

Not dangerous goods

#### 14.2 Proper shipping name

ADR

Not dangerous goods

**IMDG** 

Not dangerous goods

IATA

Not dangerous goods

# 14.3 Transport hazard class

**ADR** 

Not dangerous goods

**IMDG** 

Not dangerous goods

IATA

according to Regulation (EC) No. 1907/2006 - en



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Not dangerous goods

#### 14.4 Packing group

**ADR** 

Not dangerous goods

**IMDG** 

Not dangerous goods

**IATA** 

Not dangerous goods

#### 14.5 Environmental hazards

ADR

Not dangerous goods

**IMDG** 

Not dangerous goods

IATA

Not dangerous goods

#### 14.6 Special precautions for user

No special precautions required.

## 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remarks : Not applicable for product as supplied.

#### 15. Regulatory information

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Candidate List of Substances of Very High Concern for Authorisation

(Article 59).

: This product does not contain substances of very high

concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

Major Accident Hazard

Legislation

: 96/82/EC Update:

Update:

Not applicable

: 2012/18/EU

Not applicable

Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and

control)

: Not applicable

### 15.2 Chemical safety assessment

This information is not available.

according to Regulation (EC) No. 1907/2006 - en



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#### 16. Other information

#### Full text of H-Statements referred to under sections 2 and 3.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

#### **Further information**

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