

perma Multipurpose oil SO32

Version 2.3

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 oil SO32

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

Use of the Substance/Mixture : Lubricating oil
Recommended restrictions on use : Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

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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: Amines, C12-14-tert-alkyl May produce an allergic reaction.

2.3 Other hazards

3. Composition/information on ingredients

3.2 Mixtures

Chemical nature : Mineral oil.

Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Amines, C12-14-tert-alkyl	68955-53-3 273-279-1	Acute Tox. 4; H302 Acute Tox. 2; H330 Acute Tox. 3; H311 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 STOT SE 3; H335 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	$\geq 0.025 - < 0.1$

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.
- In case of skin contact : Remove contaminated clothing. If irritation develops, get 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.
Rinse mouth with water.

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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

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 personal protective equipment. 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. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to

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local / national regulations (see section 13).

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
Amines, C12-14-tert-alkyl : End Use: Workers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 12.5 mg/m³

End Use: Workers
Exposure routes: Inhalation
Potential health effects: Long-term local effects
Value: 12.1 mg/m³

PNEC
Amines, C12-14-tert-alkyl : Fresh water

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Value: 0.001 mg/l

Marine water
Value: 0.0001 mg/l

Intermittent use/release
Value: 0.004 mg/l

Sewage treatment plant
Value: 0.635 mg/l

Fresh water sediment
Value: 2.14 mg/l

Marine sediment
Value: 0.214 mg/l

Soil
Value: 0.428 mg/l

Oral
Value: 4.71 mg/l

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 A-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 : Safety glasses with side-shields conforming to EN166

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

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the specific work-place.

Environmental exposure controls

General advice : Try to prevent the material from entering drains or water courses.
Prevent further leakage or spillage if safe to do so.
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

Appearance : liquid
Colour : yellow
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 : ≥ 200 °C, Test Method: open cup, ISO 2592
Evaporation rate : No data available
Flammability (solid, gas) : Not applicable
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 : 0.88 g/cm³, 20 °C
Water solubility : insoluble
Solubility in other solvents : No data available
Partition coefficient: n-octanol/water : No data available
Auto-ignition temperature : No data available
Ignition temperature : No data available
Thermal decomposition : No data available
Viscosity, dynamic : No data available
Viscosity, kinematic : 100 mm²/s, 40 °C
Explosive properties : Not explosive
Oxidizing properties : No data available

9.2 Other information

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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.
Acute inhalation toxicity : This information is not available.
Acute dermal toxicity : This information is not available.
Skin corrosion/irritation : This information is not available.
Serious eye damage/eye irritation : This information is not available.
Respiratory or skin sensitisation : This information is not available.
Germ cell mutagenicity
Genotoxicity in vitro : No data available
Genotoxicity in vivo : No data available
Carcinogenicity : No data available
Reproductive toxicity : No data available
Teratogenicity : No data available
Repeated dose toxicity : This information is not available.

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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:	
Amines, C12-14-tert-alkyl :	
Acute oral toxicity	: LD50: 612 mg/kg, Rat, OECD Test Guideline 401
Acute inhalation toxicity	: LC50: 1.19 mg/l, 4 h, Rat, vapour, OECD Test Guideline 403
Acute dermal toxicity	: LD50: 251 mg/kg, Rat, OECD Test Guideline 402
Skin corrosion/irritation	: Result: Causes burns., Classification: Causes burns.
Serious eye damage/eye irritation	: Rabbit, Result: Irreversible effects on the eye, Classification: Risk of serious damage to eyes., OECD Test Guideline 405
Respiratory or skin sensitisation	: Guinea pig, Result: Probability or evidence of high skin sensitisation rate in humans, Classification: The product is a skin sensitizer, sub-category 1A., OECD Test Guideline 406
Germ cell mutagenicity	
Genotoxicity in vitro	: In vitro mammalian cell gene mutation test, Chinese hamster ovary cells, Result: negative, OECD Test Guideline 476 : Ames test, Salmonella typhimurium, Result: negative, OECD Test Guideline 471
Genotoxicity in vivo	: Chromosome aberration test in vitro, Mouse, Oral, OECD Test Guideline 474, Result: negative
Assessment	: Animal testing did not show any mutagenic effects.
STOT - single exposure	: Assessment: May cause respiratory irritation.
Repeated dose toxicity	: Rat, Inhalation, NOAEL: 19 mg/kg, OECD Test Guideline 412
Repeated dose toxicity	: Rat, Skin contact, NOAEL: 20 mg/kg, OECD Test Guideline 410
STOT - repeated exposure	: Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

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

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Toxicity to bacteria :
No data available

Components:

Amines, C12-14-tert-alkyl :

Toxicity to fish : LC50: 1.3 mg/l, 96 h, Oncorhynchus mykiss (rainbow trout),
OECD Test Guideline 203

Toxicity to daphnia and other : EC50: 4.1 mg/l, 48 h, Daphnia magna (Water flea),
aquatic invertebrates Immobilization, OECD Test Guideline 202

Toxicity to algae : EC50: 0.44 mg/l, 72 h, Selenastrum capricornutum (green
algae), Growth inhibition, OECD Test Guideline 201

M-Factor : 1
Toxicity to fish (Chronic : NOEC: 0.078 mg/l, 96 d, Oncorhynchus mykiss (rainbow
toxicity) trout), OECD 210

12.2 Persistence and degradability

Product:

Biodegradability :
No data available

Physico-chemical : No data available
removability

Components:

Amines, C12-14-tert-alkyl :

Biodegradability : 3 %, Result: Not biodegradable, Exposure time: 28 d,
activated sludge, Concentration: 4 mg/l, OECD 301 D

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).

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:

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.

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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

Not dangerous goods

14.4 Packing group

ADR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

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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: Not applicable

: 2012/18/EU Update: Not applicable

Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) : Volatile organic compounds (VOC) content: 0.53 % VOC content excluding water

15.2 Chemical safety assessment

This information is not available.

16. Other information

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

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H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Further information

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