

Article No.: 34000169
Print date: 04.03.2015
Version: 3.0

feldten marine MARINE Lube
Revision date: 10.12.2014
Issue date: 27.03.2014

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

1.1. Product identifiers

Article No. (manufacturer/supplier): 34000169
Identification of the substance or mixture: feldten marine MARINE Lube

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

Relevant identified uses:
lubricant

1.3. Details of the supplier of the safety data sheet

supplier (manufacturer/importer/downstream user/distributor)

Nanogate Textile & Care Systems GmbH
Zum Schacht 3
D-66287 Göttingen

Telephone: +49 - (0)6825 / 9591 - 0
Telefax: +49 - (0)6825 / 9591 - 852
E-mail info@nanogate.com

Dept. responsible for information:

E-mail (competent person) msds@nanogate.com

1.4. Emergency telephone number

Emergency Telephone of Company / Undertaking +49 - (0)6825 / 9591 - 0 (8am - 4pm)
Counseling center for poisoning +49 - (0) 761 / 19240

2. Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].

Aerosol 1 / H222	Aerosol	Extremely flammable aerosol.
Aerosol 1 / H229	Aerosol	Pressurised container: May burst if heated.
Skin Irrit. 2 / H315	skin corrosion/irritation	Causes skin irritation.
STOT SE 3 / H336	Specific target organ toxicity (single exposure)	May cause drowsiness or dizziness.
Aquatic Chronic 3 / H412	Hazardous to the aquatic environment	Harmful to aquatic life with long lasting effects.

Classification according to Directive 67/548/EEC or 1999/45/EC

This mixture is classified as hazardous according to 1999/45/EC.

F+; R12	Extremely flammable	Extremely flammable
Xi; R38	Irritant	Irritating to skin.
R52-53		Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
R67		Vapours may cause drowsiness and dizziness.

2.2. Label elements

The product is classified and labelled according to EC directives or corresponding national laws.

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



Danger

Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) No 453/2010



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P251 Do not pierce or burn, even after use.
P260 Do not breathe spray.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.

contains:

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Supplemental Hazard information (EU)

n.a.

Labelling (67/548/EEC or 1999/45/EC)



F+ Extremely flammable



Xi Irritant

Hazard statements

12 Extremely flammable
38 Irritating to skin.
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
67 Vapours may cause drowsiness and dizziness.

Precautionary statements

2 Keep out of reach of children.
16 Keep away from sources of ignition. - No smoking.
24 Avoid contact with skin.
28 After contact with skin, wash immediately with plenty of water and soap.
29 Do not empty into drains.
46 If swallowed, seek medical advice immediately and show this container or label.
51 Use only in well-ventilated areas.
23 Do not breathe aerosol.

contains:

n.a.

Special provisions concerning the labelling of certain mixtures

96 Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
97 Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children.

2.3. Other hazards

3. Composition / Information on ingredients

3.2. Mixtures

Hazardous ingredients

Classification according to Regulation (EC) No. 1272/2008 [CLP]

EC No. CAS No. INDEX No.	REACH No. Chemical name classification:	Wt % Remark
200-827-9 74-98-6	01-2119486944-21 propane	2,5 - 5
601-003-00-5	compressed gas H280 / Flam. Gas 1 H220	
203-448-7 106-97-8	01-2119474691-32 butane	20 - 25
601-004-00-0	compressed gas H280 / Flam. Gas 1 H220	

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200-857-2 75-28-5 601-004-00-0	01-2119485395-27 isobutane compressed gas H280 / Flam. Gas 1 H220	5 - 10
921-024-6 64742-49-0	01-2119475514-35 Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane Flam. Liq. 2 H225 / Skin Irrit. 2 H315 / Asp. Tox. 1 H304 / STOT SE 3 H336 / Aquatic Chronic 2 H411	20 - 25
265-158-7 64742-55-8	01-2119487077-29 Distillates (petroleum), hydrotreated light paraffinic Asp. Tox. 1 H304	5 - 10
927-241-2 64742-82-1	Naphtha (petroleum), hydro desulphurated, heavy Flam. Liq. 3 H226 / Asp. Tox. 1 H304 / STOT SE 3 H336 / Aquatic Chronic 3 H412	5 - 10
265-067-2 64741-65-7	Naphtha (petroleum), heavy alkylate; Low boiling point, modified naphtha Flam. Liq. 3 H226 / Asp. Tox. 1 H304 / Aquatic Chronic 4 H413	5 - 10
406-940-1 126019-82-7	O,O,O-tris(2(or 4)-C9-10-isoalkylphenyl) phosphorothionate Aquatic Chronic 2 H411	< 0,5
224-235-5 4259-15-8	2-ethylhexyl-Zn-dithiophosphate Eye Dam. 1 H318 / Aquatic Chronic 2 H411	< 0,5
232-455-8 8042-47-5	01-2119487078-27-0000 white mineral oil Asp. Tox. 1 H304	5 - 10
265-150-3 64742-48-9	01-2119457273-39 Naphtha (petroleum), hydrotreated heavy Flam. Liq. 3 H226 / Asp. Tox. 1 H304 / STOT SE 3 H336	5 - 10

Classification according to Directive 67/548/EEC or 1999/45/EC

EC No. CAS No. INDEX No.	REACH No. Chemical name classification:	Wt % Remark
203-448-7 106-97-8 601-004-00-0	01-2119474691-32 butane F+; R12	20 - 25
921-024-6 64742-49-0	01-2119475514-35 Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane F; R11 / N; R51-53 / Xn; R65 / Xi; R38 / R67	20 - 25
927-241-2 64742-82-1	Naphtha (petroleum), hydro desulphurated, heavy Xn; R65 / R10 / R52-53 / R66 / R67	5 - 10
265-067-2 64741-65-7	Naphtha (petroleum), heavy alkylate; Low boiling point modified naphtha Xn; R65 / R10 / R53 / R66	5 - 10
265-150-3 64742-48-9	01-2119457273-39 Naphtha (petroleum), hydrotreated heavy R10 / Xn; R65 / R66 / R67 / R52-53	5 - 10
265-158-7 64742-55-8	01-2119487077-29 Distillates (petroleum), hydrotreated light paraffinic Xn; R65	5 - 10
200-857-2 75-28-5 601-004-00-0	01-2119485395-27 isobutane F+; R12	5 - 10
200-827-9 74-98-6 601-003-00-5	01-2119486944-21 propane F+; R12	2,5 - 5
406-940-1 126019-82-7	O,O,O-tris(2(or 4)-C9-10-isoalkylphenyl) phosphorothionate N; R51-53	< 0,5

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224-235-5		
4259-15-8	2-ethylhexyl-Zn-dithiophosphate	< 0,5
	Xi; R41 / N; R51-53	

Additional information

Full text of R-phrases: see section 16.

Full text of H-phrases: see section 16.

4. First-aid measures

4.1. Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

Following skin contact

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

After ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

In all cases of doubt, or when symptoms persist, seek medical advice.

4.3. Indication of any immediate medical attention and special treatment needed

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

Extinguishing media which must not be used for safety reasons:

strong water jet

5.2. Special hazards arising from the substance or mixture

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3. Advice for firefighters

Provide a conveniently located respiratory protective device. Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous. Cool closed containers that are near the source of the fire.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see chapter 13). Clean using cleansing agents. Do not use solvents.

6.4. Reference to other sections

Observe protective provisions (see chapter 7 and 8).

7. Handling and storage

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7.1. Precautions for safe handling

Advices on safe handling

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to chapter 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

Precautions against fire and explosion:

Vapours are heavier than air. Vapours form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (BGR 132)".

Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use. Read label before use.

8. Exposure controls / Personal protection

8.1. Control parameters

Occupational exposure limit values:

butane

INDEX No. 601-004-00-0 / EC No. 203-448-7 / CAS No. 106-97-8

WEL, TWA: 1450 mg/m³; 600 ppm

WEL, STEL: 1810 mg/m³; 750 ppm

Remark: (Carc, only applies if Butane contains more than 0.1% of buta-1,3-diene)

Additional information

TWA : long-term occupational exposure limit value

STEL : short-term occupational exposure limit value

Ceiling : peak limitation

8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

Occupational exposure controls

Respiratory protection

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number.

Recommended Respiratory protection: Respiratory protective device with half mask filter material type A. The standards EN 136, 140 and 405 of the European Commission for Standardization (CEN) make recommendations to respirators, the standards EN 149 and EN 143 provide recommendations to respiratory filters.

Hand protection

For prolonged or repeated handling the following glove material must be used: nitrile rubber or butyl rubber with at least 0.7 mm thickness

Thickness of the glove material > 0,4 mm ; Breakthrough time (maximum wearing time) > 480 min.

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove

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manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles DIN EN 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye protection

Wear closely fitting protective glasses in case of splashes.

Protective clothing

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

Protective measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

Environmental exposure controls

Do not allow to enter into surface water or drains. See chapter 7. No additional measures necessary.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:

Physical state: liquid
Colour: yellow
Odour: like organic solvents

Safety relevant basis data	Unit	Method	Remark
Flash point:	-60 °C	DIN 51755 part 1	
Ignition temperature in °C:	200 °C		
Lower explosion limit:	1,0 Vol-%		
Upper explosion limit:	8,5 Vol-%		
Vapour pressure at 20 °C:	3200,00 mbar		
Density at 20 °C:	0,68 g/cm ³		
Water solubility (g/L):	insoluble		
pH at 20 °C:	-		
Viscosity at 20 °C:	< 10 mPa·s		
Solvent separation test (%):	< 3 %		

9.2. Other information

10. Stability and reactivity

10.1. Reactivity

10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7.

10.3. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.4. Conditions to avoid

Hazardous decomposition byproducts may form with exposure to high temperatures.

10.5. Incompatible materials

10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

11. Toxicological information

No data on preparation itself available.

11.1. Information on toxicological effects

Acute toxicity

Toxicological data are not available.

Irritant and corrosive effects

Toxicological data are not available.

Sensitisation

Toxicological data are not available.

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Specific target organ toxicity

Toxicological data are not available.

Aspiration hazard

Toxicological data are not available.

Practical experience/human evidence

Other observations:

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

Overall Assessment on CMR properties

The ingredients in this preparation do not meet the criteria for classification as CMR category 1 or 2 according to 67/548/EEC.

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified according to the toxicological dangers. See chapters 2 and 15 for details.

12. Ecological information

overall evaluation

There is no information available on the preparation itself .
Do not allow to enter into surface water or drains.

12.1. Toxicity

Toxicological data are not available.

12.2. Persistence and degradability

Toxicological data are not available.

12.3. Bioaccumulative potential

Toxicological data are not available.

12.4. Mobility in soil

Toxicological data are not available.

12.5. Results of PBT assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is not classified as dangerous for the environment.

13. Disposal considerations

13.1. Waste treatment methods

Appropriate disposal / Product Recommendation

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

List of proposed waste codes/waste designations in accordance with EWC

190208 liquid combustible wastes containing dangerous substances
150104 metallic packaging

packaging

Recommendation

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

14. Transport information

14.1. UN number

1950

14.2. UN proper shipping name

Land transport (ADR/RID): Aerosols, flammable

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Sea transport (IMDG): AEROSOLS
 Air transport (ICAO-TI / IATA-DGR): Aerosols, flammable

14.3. Transport hazard class(es)

2.1

14.4. Packing group

Land transport (ADR/RID): n.a.
 Sea transport (IMDG): n.a.
 Air transport (ICAO-TI / IATA-DGR): II

14.5. Environmental hazards

Land transport (ADR/RID) n.a.
 Marine pollutant n.a.

14.6. Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.
 Advices on safe handling: see parts 6 - 8

Additional information

Land transport (ADR/RID)

tunnel restriction code D

Sea transport (IMDG)

EmS-No. F-D, S-U

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

not applicable

15. Regulatory information

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

EU legislation

VOC Switzerland:

weight fraction in % 72,82

National regulations

Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
 Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Other regulations, restrictions and prohibition regulations

15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this preparation were not carried out.

16. Other information

Relevant R-and H-phrases (Number and full text):

compressed gas / H280	Gases under pressure	Contains gas under pressure; may explode if heated.
Flam. Gas 1 / H220	Flammable gases	Extremely flammable gas.
Flam. Liq. 2 / H225	flammable liquids	Highly flammable liquid and vapour.
Skin Irrit. 2 / H315	skin corrosion/irritation	Causes skin irritation.
Asp. Tox. 1 / H304	Aspiration hazard	May be fatal if swallowed and enters airways.
STOT SE 3 / H336	Specific target organ toxicity (single exposure)	May cause drowsiness or dizziness.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.
Flam. Liq. 3 / H226	flammable liquids	Flammable liquid and vapour.
Aquatic Chronic 3 / H412	Hazardous to the aquatic environment	Harmful to aquatic life with long lasting effects.
Aquatic Chronic 4 / H413	Hazardous to the aquatic environment	May cause long lasting harmful effects to aquatic life.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.
F+; R12	Extremely flammable	Extremely flammable

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Xn; R65 F; R11 N; R51-53	Harmful Highly flammable Dangerous for the environment	Harmful: may cause lung damage if swallowed. Highly flammable Toxic to aquatic life. May cause long-term adverse effects in the aquatic environment.
Xi; R38 R67 R10 R52-53	Irritant	Irritating to skin. Vapours may cause drowsiness and dizziness. Flammable Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
R66		Repeated exposure may cause skin dryness or cracking.
R53		May cause long-term adverse effects in the aquatic environment.
Xi; R41	Irritant	Risk of serious damage to eyes.

Additional information

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in chapter 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.