

SAFETY DATA SHEET

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



Klübersynth GEM 4-32 NH

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 12.11.2019 | Print Date: |
| 2.5 | 07.07.2020 | Date of first issue: 08.07.2016 | 07.07.2020 |

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name : Klübersynth GEM 4-32 NH

Article-No. : 012296

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

Use of the Sub-
stance/Mixture : Lubricating oil

Recommended restrictions
on use : Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

Company : Klüber Lubrication München
Geisenhausenerstr. 7
81379 München
Deutschland
Tel: +49 (0) 89 7876 0
Fax: +49 (0) 89 7876 333
info@klueber.com

E-mail address of person
responsible for the SDS : mcm@klueber.com
Material Compliance Management

National contact : Klüber Lubrication Deutschland
Geisenhausenerstraße 7
81379 München
Deutschland
Tel.: +49 89 7876 0
Fax: +49 89 7876 565
customer.service.de@klueber.com
www.klueber.com

1.4 Emergency telephone number

Emergency telephone num-
ber : +49 89 7876 700 (24 hrs)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)
Not a hazardous substance or mixture.

SAFETY DATA SHEET

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



Klübersynth GEM 4-32 NH

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 12.11.2019 | Print Date: |
| 2.5 | 07.07.2020 | Date of first issue: 08.07.2016 | 07.07.2020 |

2.2 Label elements

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

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Synthetic hydrocarbon oil
ester oil

Components

| Chemical name | CAS-No. EC-No. Index-No. Registration number | Classification | Concentration limits M-Factor Notes | Concentration (% w/w) |
|---------------------------|---|--|--|--------------------------|
| amines, C12-14-tert-alkyl | 701-175-2 01-2119456798-18-XXXX | 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 SE3; H335 Aquatic Acute1; H400 Aquatic Chronic1; H410 | M-Factor: 1/1 | >= 0,025 - < 0,1 |

For explanation of abbreviations see section 16.

SECTION 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.

SAFETY DATA SHEET

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



Klübersynth GEM 4-32 NH

| | | | |
|----------------|------------------------------|---|---------------------------|
| Version 2.5 | Revision Date: 07.07.2020 | Date of last issue: 12.11.2019 Date of first issue: 08.07.2016 | Print Date: 07.07.2020 |
|----------------|------------------------------|---|---------------------------|

- 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.

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.

SECTION 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 fire-fighting : 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. Exposure to decomposition products may be a hazard to health.
- Further information : Standard procedure for chemical fires.

SAFETY DATA SHEET

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



Klübersynth GEM 4-32 NH

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 12.11.2019 | Print Date: |
| 2.5 | 07.07.2020 | Date of first issue: 08.07.2016 | 07.07.2020 |

SECTION 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 material 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 local / national regulations (see section 13).

6.4 Reference to other sections

For personal protection see section 8.

SECTION 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.

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

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.

Storage class (TRGS 510) : 10, Combustible liquids

7.3 Specific end use(s)

Specific use(s) : Specific instructions for handling, not required.

SAFETY DATA SHEET

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

KLÜBER
LUBRICATION

Klübersynth GEM 4-32 NH

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|---------------------------|---------|-----------------|----------------------------|------------------------|
| diisotridecyl adipate | Workers | Inhalation | Long-term systemic effects | 24 mg/m ³ |
| | Workers | Skin contact | Long-term systemic effects | 3,4 mg/kg bw/day |
| amines, C12-14-tert-alkyl | Workers | Inhalation | Long-term systemic effects | 12,5 mg/m ³ |
| | Workers | Inhalation | Long-term local effects | 12,1 mg/m ³ |

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name | Environmental Compartment | Value |
|---------------------------|---------------------------|----------------------------|
| diisotridecyl adipate | Fresh water | 0,00004 mg/l |
| | Intermittent use/release | 1 mg/l |
| | Marine water | 0,000004 mg/l |
| | Intermittent use/release | 1 mg/l |
| | Sewage treatment plant | 48 mg/l |
| | Fresh water sediment | 40 mg/kg dry weight (d.w.) |
| amines, C12-14-tert-alkyl | Marine sediment | 40 mg/kg dry weight (d.w.) |
| | Soil | 1 mg/kg dry weight (d.w.) |
| | Fresh water | 0,001 mg/l |
| | Marine water | 0,0001 mg/l |
| | Intermittent use/release | 0,004 mg/l |
| | Sewage treatment plant | 0,635 mg/l |
| | Fresh water sediment | 2,14 mg/l |
| | Marine sediment | 0,214 mg/l |
| | Soil | 0,428 mg/l |
| | Oral | 4,71 mg/l |

8.2 Exposure controls

Engineering measures

none

Personal protective equipment

Eye protection : Safety glasses with side-shields

Hand protection

Material : Nitrile rubber

SAFETY DATA SHEET

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



Klübersynth GEM 4-32 NH

| | | | |
|----------------|------------------------------|---|---------------------------|
| Version 2.5 | Revision Date: 07.07.2020 | Date of last issue: 12.11.2019 Date of first issue: 08.07.2016 | Print Date: 07.07.2020 |
|----------------|------------------------------|---|---------------------------|

Break through time : > 10 min
Protective index : Class 1

Remarks : Wear protective gloves. 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.
The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

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

Filter type : Filter type A-P

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 the specific work-place.

SECTION 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 : $\geq 200\text{ }^{\circ}\text{C}$
Method: ISO 2592, open cup

Evaporation rate : No data available

Flammability (solid, gas) : Not applicable

Upper explosion limit / Upper : No data available

SAFETY DATA SHEET

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



Klübersynth GEM 4-32 NH

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 12.11.2019 | Print Date: |
| 2.5 | 07.07.2020 | Date of first issue: 08.07.2016 | 07.07.2020 |

flammability limit

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : < 0,001 hPa (20 °C)

Relative vapour density : No data available

Density : 0,85 g/cm³
(20 °C)

Bulk density : No data available

Solubility(ies)
Water solubility : insoluble

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity
Viscosity, dynamic : No data available

Viscosity, kinematic : 32 mm²/s (40 °C)

Explosive properties : Not explosive

Oxidizing properties : No data available

9.2 Other information

Sublimation point : No data available

Self-ignition : No data available

SECTION 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

SAFETY DATA SHEET

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

KLÜBER
LUBRICATION

Klübersynth GEM 4-32 NH

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 12.11.2019 | Print Date: |
| 2.5 | 07.07.2020 | Date of first issue: 08.07.2016 | 07.07.2020 |

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

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : Remarks: This information is not available.

Acute inhalation toxicity : Remarks: This information is not available.

Acute dermal toxicity : Remarks: This information is not available.

Components:

amines, C12-14-tert-alkyl:

Acute oral toxicity : LD50 (Rat): 612 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 1,19 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat): 251 mg/kg
Method: OECD Test Guideline 402

Skin corrosion/irritation

Product:

Remarks : This information is not available.

Components:

amines, C12-14-tert-alkyl:

Assessment : Causes burns.

SAFETY DATA SHEET

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



Klübersynth GEM 4-32 NH

| | | | |
|----------------|------------------------------|---|---------------------------|
| Version 2.5 | Revision Date: 07.07.2020 | Date of last issue: 12.11.2019 Date of first issue: 08.07.2016 | Print Date: 07.07.2020 |
|----------------|------------------------------|---|---------------------------|

Result : Causes burns.

Serious eye damage/eye irritation

Product:

Remarks : This information is not available.

Components:

amines, C12-14-tert-alkyl:

| | |
|------------|-----------------------------------|
| Species | : Rabbit |
| Assessment | : Risk of serious damage to eyes. |
| Method | : OECD Test Guideline 405 |
| Result | : Irreversible effects on the eye |

Respiratory or skin sensitisation

Product:

Remarks : This information is not available.

Components:

amines, C12-14-tert-alkyl:

| | |
|------------|---|
| Species | : Guinea pig |
| Assessment | : The product is a skin sensitiser, sub-category 1A. |
| Method | : OECD Test Guideline 406 |
| Result | : Probability or evidence of high skin sensitisation rate in humans |

Germ cell mutagenicity

Product:

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

Components:

amines, C12-14-tert-alkyl:

| | |
|-----------------------|--|
| Genotoxicity in vitro | : Test Type: In vitro mammalian cell gene mutation test Test system: Chinese hamster ovary cells Method: OECD Test Guideline 476 Result: negative |
| | Test Type: Ames test Test system: Salmonella typhimurium Method: OECD Test Guideline 471 Result: negative |

SAFETY DATA SHEET

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



Klübersynth GEM 4-32 NH

| | | | |
|----------------|------------------------------|---|---------------------------|
| Version 2.5 | Revision Date: 07.07.2020 | Date of last issue: 12.11.2019 Date of first issue: 08.07.2016 | Print Date: 07.07.2020 |
|----------------|------------------------------|---|---------------------------|

Genotoxicity in vivo : Test Type: Chromosome aberration test in vitro
Species: Mouse
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative

Germ cell mutagenicity- Assessment : Animal testing did not show any mutagenic effects.

Carcinogenicity

Product:

Remarks : No data available

Reproductive toxicity

Product:

Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

Components:

amines, C12-14-tert-alkyl:

Effects on foetal development : Species: Rat
Method: OECD Test Guideline 414
Result: No effects on fertility and early embryonic development were detected.

Reproductive toxicity - Assessment : Animal testing did not show any effects on fertility.
Animal testing did not show any effects on foetal development.

STOT - single exposure

Components:

amines, C12-14-tert-alkyl:

Assessment : May cause respiratory irritation.

STOT - repeated exposure

Components:

amines, C12-14-tert-alkyl:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

SAFETY DATA SHEET

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



Klübersynth GEM 4-32 NH

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 12.11.2019 | Print Date: |
| 2.5 | 07.07.2020 | Date of first issue: 08.07.2016 | 07.07.2020 |

Repeated dose toxicity

Product:

Remarks : This information is not available.

Components:

amines, C12-14-tert-alkyl:

| | |
|-------------------|---------------------------|
| Species | : Rat |
| NOAEL | : 19 mg/kg |
| Application Route | : Inhalation |
| Test atmosphere | : vapour |
| Method | : OECD Test Guideline 412 |

| | |
|-------------------|---------------------------|
| Species | : Rat |
| NOAEL | : 20 mg/kg |
| Application Route | : Skin contact |
| Method | : OECD Test Guideline 410 |

Aspiration toxicity

Product:

This information is not available.

Components:

amines, C12-14-tert-alkyl:

No aspiration toxicity classification

Further information

Product:

Remarks : Information given is based on data on the components and the toxicology of similar products.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

Toxicity to algae/aquatic plants : Remarks: No data available

SAFETY DATA SHEET

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

KLÜBER
LUBRICATION

Klübersynth GEM 4-32 NH

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 12.11.2019 | Print Date: |
| 2.5 | 07.07.2020 | Date of first issue: 08.07.2016 | 07.07.2020 |

Toxicity to microorganisms :
Remarks: No data available

Components:

amines, C12-14-tert-alkyl:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1,3 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 2,5 mg/l
aquatic invertebrates
Exposure time: 48 h

Toxicity to algae/aquatic : EC50 (Selenastrum capricornutum (green algae)): 0,44 mg/l
plants
Exposure time: 72 h
Test Type: Growth inhibition
Method: OECD Test Guideline 201

M-Factor (Acute aquatic tox- : 1
icity)

Toxicity to fish (Chronic tox- : NOEC: 0,078 mg/l
icity)
Exposure time: 96 d
Species: Oncorhynchus mykiss (rainbow trout)
Method: OECD Test Guideline 210

M-Factor (Chronic aquatic : 1
toxicity)

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: No data available

Physico-chemical removabil- : Remarks: No data available
ity

Components:

amines, C12-14-tert-alkyl:

Biodegradability : Inoculum: activated sludge
Concentration: 4 mg/l
Result: Not rapidly biodegradable
Biodegradation: 21,8 %
Exposure time: 28 d
Method: OECD Test Guideline 301D

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: This mixture contains no substance considered to

SAFETY DATA SHEET

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

KLÜBER
LUBRICATION

Klübersynth GEM 4-32 NH

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 12.11.2019 | Print Date: |
| 2.5 | 07.07.2020 | Date of first issue: 08.07.2016 | 07.07.2020 |

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

Components:

amines, C12-14-tert-alkyl:

Partition coefficient: n-octanol/water : log Pow: 2,9 (20 °C)

12.4 Mobility in soil

Product:

Mobility : Remarks: No data available

Distribution among environmental compartments : Remarks: No data available

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..

12.6 Other adverse effects

Product:

Additional ecological information : No information on ecology is available.

SECTION 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 : Packaging that is not properly emptied must be disposed of as the unused product.
Dispose of waste product or used containers according to local regulations.

The following Waste Codes are only suggestions:

SAFETY DATA SHEET

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



Klübersynth GEM 4-32 NH

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 12.11.2019 | Print Date: |
| 2.5 | 07.07.2020 | Date of first issue: 08.07.2016 | 07.07.2020 |

Waste Code : unused product
13 02 06*, synthetic engine, gear and lubricating oils

uncleaned packagings
15 01 10, packaging containing residues of or contaminated
by hazardous substances

SECTION 14: Transport information

14.1 UN number

ADR : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA : Not regulated as a dangerous good

14.2 UN proper shipping name

ADR : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA : Not regulated as a dangerous good

14.3 Transport hazard class(es)

ADR : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA : Not regulated as a dangerous good

14.4 Packing group

ADR : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA (Cargo) : Not regulated as a dangerous good
IATA (Passenger) : Not regulated as a dangerous good

14.5 Environmental hazards

ADR : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA (Passenger) : Not regulated as a dangerous good
IATA (Cargo) : Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks : Not applicable for product as supplied.

SAFETY DATA SHEET

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



Klübersynth GEM 4-32 NH

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 12.11.2019 | Print Date: |
| 2.5 | 07.07.2020 | Date of first issue: 08.07.2016 | 07.07.2020 |

SECTION 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).
- REACH - List of substances subject to authorisation (Annex XIV) : Not applicable
- Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable
- Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable
- Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable
- REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Not applicable
- Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.
Not applicable
- Water contaminating class (Germany) : WGK 1 slightly hazardous to water
Classification according to AwSV, Annex 1 (5.2)
- TA Luft List (Germany) : Total dust:
others: 0,24 %

Inorganic substances in powdered form:
Not applicable
Inorganic substances in vapour or gaseous form:
Not applicable
Organic Substances:
portion Class 1: 0,1 %
others: 99,66 %

Carcinogenic substances:
Not applicable
Mutagenic:
Not applicable
Toxic to reproduction:
Not applicable
- Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)

SAFETY DATA SHEET

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



Klübersynth GEM 4-32 NH

| | | | |
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Volatile organic compounds (VOC) content: 0,14 %

15.2 Chemical safety assessment

This information is not available.

SECTION 16: Other information

Full text of H-Statements

| | |
|------|---|
| 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. |

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical

SAFETY DATA SHEET

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



Klübersynth GEM 4-32 NH

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Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

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