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



# 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 : Lubricating oil

Substance/Mixture

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 : mcm@klueber.com

responsible for the SDS Material Compliance Management

National contact : Klüber Lubrication AG (Schweiz)

Thurgauerstrasse 39

8050 Zürich

Tél +41 44 308 69 69 (08.00 - 17.00 h)

Fax +41 44 308 69 44

1.4 Emergency telephone number

Emergency telephone

number

: Tox Info Suisse (Phone +41 145, 24 h a day)

### **SECTION 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

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

Not a hazardous substance or mixture.



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



# 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

### **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

### **Hazardous components**

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration limits M-Factor Notes	Concentration (% w/w)
amines, C12-14-tert-		Acute Tox.4; H302		>= 0,025 - < 0,1
alkyl	701-175-2	Acute Tox.2; H330	M-Factor: 1/1	
		Acute Tox.3; H311		
		Skin Corr.1B;		
		H314		
	01-2119456798-18-	Eye Dam.1; H318		
	XXXX	Skin Sens.1A;		
		H317		
		STOT SE3; H335		
		Aquatic Acute1;		
		H400		
		Aquatic Chronic1;		
	<u> </u>	H410		
Substances with a work	· · · · · · · · · · · · · · · · · · ·	T		
Dec-1-ene,	68037-01-4	Not classified		>= 70 - < 90
homopolymer,	500-183-1			
hydrogenated				
	04 0440400450 04			
	01-2119486452-34-			
	XXXX			



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



# 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 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.

### 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 may cause evolution of:

firefighting 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.



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



# 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

Further information : Standard procedure for chemical fires.

#### **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.

#### 7.3 Specific end use(s)



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



# Klübersynth GEM 4-32 NH

VersionRevision Date:Date of last issue: 12.11.2019Print Date:2.507.07.2020Date of first issue: 08.07.201607.07.2020

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

### **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

### **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
		/		
Dec-1-ene,	68037-01-4	TWA (inhalable	5 mg/m3	CH SUVA
homopolymer,		dust)		(2019-01-22)
hydrogenated		,		,
Further information	Harm to the unborn child is not to be expected when the OEL-value is			
	respected			

# 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/m3
	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/m3
	Workers	Inhalation	Long-term local effects	12,1 mg/m3

### 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	0,00004 mg/l
	Intermittent use/release	1 mg/l
	Sewage treatment plant	48 mg/l
	Fresh water sediment	40 mg/kg dry
		weight (d.w.)
	Marine sediment	40 mg/kg dry
		weight (d.w.)
	Soil	1 mg/kg dry
		weight (d.w.)
amines, C12-14-tert-alkyl	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



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



# 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

### 8.2 Exposure controls

### **Engineering measures**

none

#### Personal protective equipment

Eye protection : Safety glasses with side-shields

Hand protection

Material : Nitrile rubber
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.

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 :  $>= 200 \, ^{\circ}\text{C}$ 

Method: ISO 2592, open cup



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



# 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

Evaporation rate : No data available

Flammability (solid, gas) : Not applicable

Upper explosion limit / Upper

flammability limit

No data available

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.



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



# Klübersynth GEM 4-32 NH

VersionRevision Date:Date of last issue: 12.11.2019Print Date:2.507.07.2020Date of first issue: 08.07.201607.07.2020

### 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

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

Dec-1-ene, homopolymer, hydrogenated:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): 5,2 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Assessment: The substance or mixture has no acute

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



# 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

inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg

Method: OECD Test Guideline 402

GLP: yes

Assessment: The substance or mixture has no acute dermal

toxicity

Skin corrosion/irritation

**Product:** 

Remarks : This information is not available.

**Components:** 

amines, C12-14-tert-alkyl:

Assessment : Causes burns. Result : Causes burns.

Dec-1-ene, homopolymer, hydrogenated:

Species : Rabbit

Assessment : No skin irritation

Method : OECD Test Guideline 404

Result : No skin irritation

GLP : yes

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

Dec-1-ene, homopolymer, hydrogenated:

Species : Rabbit

Assessment : No eye irritation

Method : OECD Test Guideline 405

Result : No eye irritation

GLP : yes

Respiratory or skin sensitisation

**Product:** 

Remarks : This information is not available.



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



# 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

### **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

Dec-1-ene, homopolymer, hydrogenated:

Test Type : Maximisation Test

Species : Guinea pig

Assessment : Did not cause sensitisation on laboratory animals.

Method : OECD Test Guideline 406

Result : Did not cause sensitisation on laboratory animals.

GLP : yes

### 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

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.

### Dec-1-ene, homopolymer, hydrogenated:

Germ cell mutagenicity-

Assessment

: Animal testing did not show any mutagenic effects.



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



# Klübersynth GEM 4-32 NH

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

Carcinogenicity

**Product:** 

Remarks No data available

Reproductive toxicity

**Product:** 

Remarks: No data available Effects on fertility

Effects on foetal development

Remarks: No data available

**Components:** 

amines, C12-14-tert-alkyl:

Effects on foetal Species: Rat

development 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.

Dec-1-ene, homopolymer, hydrogenated:

Reproductive toxicity -

Assessment

No toxicity to reproduction

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.

Repeated dose toxicity

**Product:** 

Remarks This information is not available.

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



# 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

### **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

### Dec-1-ene, homopolymer, hydrogenated:

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

Toxicity to microorganisms

Remarks: No data available



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



# 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

**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

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 2,5 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

EC50 (Selenastrum capricornutum (green algae)): 0,44 mg/l

Exposure time: 72 h

Test Type: Growth inhibition

Method: OECD Test Guideline 201

M-Factor (Acute aquatic

toxicity)

1

Toxicity to fish (Chronic

toxicity)

NOEC: 0,078 mg/l Exposure time: 96 d

Species: Oncorhynchus mykiss (rainbow trout)

Method: OECD Test Guideline 210

M-Factor (Chronic aquatic

toxicity)

1

Dec-1-ene, homopolymer, hydrogenated:

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): > 1.000 mg/l

Exposure time: 96 h Test Type: semi-static test

Toxicity to daphnia and other :

aquatic invertebrates

EL50 (Daphnia magna (Water flea)): > 1.000 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae/aquatic

plants

EL50 (Selenastrum capricornutum (green algae)): > 1.000

mg/l

Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201

GLP: yes

Toxicity to daphnia and other :

aquatic invertebrates (Chronic toxicity)

NOELR: 125 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test Type: semi-static test

Method: OECD Test Guideline 211

GLP: yes

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



# 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

#### 12.2 Persistence and degradability

**Product:** 

Biodegradability : Remarks: No data available

Physico-chemical

removability

Remarks: No data available

**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

Dec-1-ene, homopolymer, hydrogenated:

Biodegradability : Result: Not readily biodegradable.

12.3 Bioaccumulative potential

**Product:** 

Bioaccumulation : Remarks: 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:** 

Amines, C12-14-tert-alkyl:

Partition coefficient: n-

octanol/water

log Pow: 2,9 (20 °C)

Dec-1-ene, homopolymer, hydrogenated:

Partition coefficient: n- : log Pow: > 6,5 (20 °C)

octanol/water pH: 7

Method: OECD Test Guideline 117

GLP: yes

12.4 Mobility in soil

**Product:** 

Mobility : Remarks: No data available

Distribution among : Remarks: No data available

environmental compartments

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



# 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

#### 12.5 Results of PBT and vPvB assessment

### **Components:**

### Dec-1-ene, homopolymer, hydrogenated:

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

substance.

#### 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.

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:

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



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



# Klübersynth GEM 4-32 NH

VersionRevision Date:Date of last issue: 12.11.2019Print Date:2.507.07.2020Date of first issue: 08.07.201607.07.2020

### 14.3 Transport hazard class(es)

IMDG : 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.

### **SECTION 15: Regulatory information**

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

PIC Ordinance, ChemPICO (814.82) : Not applicable

REACH - Candidate List of Substances of Very High : This product does not contain

Concern for Authorisation (Article 59). substances of very high concern

(Regulation (EC) No

Not applicable

1907/2006 (REACH), Article 57).

REACH - List of substances subject to authorisation

(Annex XIV)

Regulation (EC) No 1005/2009 on substances that : Not applicable

deplete the ozone layer

Regulation (EU) 2019/1021 on persistent organic : Not applicable

pollutants (recast)

Regulation (EC) No 649/2012 of the European : Not applicable

Parliament and the Council concerning the export and

import of dangerous chemicals

REACH - Restrictions on the manufacture, placing on : Not applicable

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



# 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

the market and use of certain dangerous substances, preparations and articles (Annex XVII)

Ordinance on Protection against Major Accidents

Threshold quantity according to Major Accidents : Not applicable

Ordinance (MAO 814.012)

Volatile organic compounds : Law on the incentive tax for volatile organic compounds

(VOCV)

Volatile organic compounds (VOC) content: 0,06 %

no VOC duties

#### Other regulations:

Article 4 para. 4 of the Ordinance on the protection of young people in the workplace (SR 822.115) and Article 1 lit. f of the EAER regulation on hazardous work and young people (SR 822.115.2): Young people undergoing basic vocational training may only work with this product if the relevant training ordinance makes provision for them to do so with a view to enabling them to achieve their training objectives and if the preconditions for the training plan have been met and the applicable age restrictions have been complied with. Young people who are not completing any basic vocational training are not permitted to work with this product. Employees of either sex who are under 18 years old are classed as young people.

#### 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

CH SUVA : Switzerland. Limit values at the work place

CH SUVA / TWA : Time Weighted Average

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



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



# Klübersynth GEM 4-32 NH

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(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 Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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