

Page 1/11

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 16.06.2023 Version number 2.0 (replaces version 1.4) Revision: 16.06.2023

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

· Product identifier

· Trade name: Oilfino Gradus 460

· Article number: 7650009

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

No further relevant information available.

· Application of the substance / the mixture Gear oil

- Details of the supplier of the safety data sheet
- Manufacturer/Supplier:

oilfino Mineralöl GmbH Werkstr. 12

D- 25497 Prisdorf

info@oilfino.com Tel.: +49 (0) 4101 / 79900

www.oilfino.com

- · Further information obtainable from: Sales
- · Emergency telephone number:

Poison Information Centre North (Göttingen)

Phone +49 (0)551-19240

SECTION 2: Hazards identification

- · Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

Aguatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- · Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

P273 Avoid release to the environment.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 2)



Page 2/11

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 16.06.2023 Version number 2.0 (replaces version 1.4) Revision: 16.06.2023

Trade name: Oilfino Gradus 460

· Other hazards

· Results of PBT and vPvB assessment

PBT: Not applicable.vPvB: Not applicable.

(Contd. of page 1)

SECTION 3: Composition/information on ingredients

- · Mixtures
- · **Description**: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:			
EC number: 701-175-2	Amine, C10-14-tert-Alkyl	≥0.25-<1%	
	Acute Tox. 3, H311; Acute Tox. 2, H330; Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Skin Sens. 1A, H317 Specific concentration limit: Skin Sens. 1A; H317: C≥ 6.7 %		
CAS: 1213789-63-9 EC number: 627-034-4 Reg.nr.: 01-2119473797-19	C16-18- (even, saturated and unsaturated) alkylamines STOT RE 2, H373; Asp. Tox. 1, H304; Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10); Acute Tox. 4, H302; STOT SE 3, H335	≥0.025-<0.25%	

[·] Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- · Description of first aid measures
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- Most important symptoms and effects, both acute and delayed No further relevant information available.

(Contd. on page 3)



Page 3/11

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 16.06.2023 Version number 2.0 (replaces version 1.4) Revision: 16.06.2023

Trade name: Oilfino Gradus 460

(Contd. of page 2)

· Indication of any immediate medical attention and special treatment needed No further relevant information available.

SECTION 5: Firefighting measures

- Extinguishing media
- Suitable extinguishing agents:

Use fire extinguishing methods suitable to surrounding conditions.

Sand

Foam

Water haze

CO2, powder or water spray. Fight larger fires with water spray.

- · Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

SECTION 6: Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- **Environmental precautions:**

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

- · Precautions for safe handling No special precautions are necessary if used correctly.
- · Information about fire and explosion protection: No special measures required.

(Contd. on page 4)



Page 4/11

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 16.06.2023 Version number 2.0 (replaces version 1.4) Revision: 16.06.2023

Trade name: Oilfino Gradus 460

(Contd. of page 3)

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- Storage class (TRGS): 10/12
- · Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · Control parameters
- Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Amine, C	10-14-tert-Alkyl	
nhalative	DNEL long-term - inhalation local effects	12.1 mg/m³ (Worker)
		1.2 mg/m³ (general public)
	DNEL Long-term – inhalation, systemic effects	2.5 mg/m³/d (general public)
1213789-6	33-9 C16-18- (even, saturated and unsaturate	d) alkylamines
Inhalative	DNEL long-term - inhalation local effects	1 mg/m³ (Worker)
	DNEL Long-term – inhalation, systemic effects	0.38 mg/m³/d (Worker)
	DNEL Acute - inhalation, local effects	1 mg/m³ (Worker)
DNECs		1

· PNECs

1213789-63-9 C16-18- (even, saturated and unsaturated) alkylamines			
PNEC short term, fresh water 0.000026 mg/l (Aquatic organisms)			
PNEC short term, sea water	0.0000026 mg/l (Aquatic organisms)		
PNEC short term fresh water sediment	3.76 mg/kg (Aquatic organisms)		
PNEC short term soil	10 mg/kg (teresstric organisms)		
PNEC short term sea water sediment	0.376 mg/kg (Aquatic organisms)		

- · Additional information: The lists valid during the making were used as basis.
- · Exposure controls
- \cdot Appropriate engineering controls No further data; see section 7.

(Contd. on page 5)



Page 5/11

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 16.06.2023 Version number 2.0 (replaces version 1.4) Revision: 16.06.2023

Trade name: Oilfino Gradus 460

(Contd. of page 4)

- · Individual protection measures, such as personal protective equipment
- General protective and hygienic measures: Wash hands before breaks and at the end of work.
- Respiratory protection: Not required.
- · Hand protection

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation



Protective gloves

- · Material of gloves Nitrile rubber, NBR
- Penetration time of glove material

For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 16523-1:2015: Level 6).

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye/face protection



Tightly sealed goggles

SECTION 9: Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information

· Physical state Fluid

Colour: Light brownOdour: CharacteristicOdour threshold: Not determined.

· Melting point/freezing point: -36 °C

Boiling point or initial boiling point and

boiling range Undetermined.

(Contd. on page 6)



Page 6/11

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 16.06.2023 Version number 2.0 (replaces version 1.4) Revision: 16.06.2023

Trade name: Oilfino Gradus 460

(Contd. of page 5)

· Flammability Not applicable.

Lower and upper explosion limit

Lower: Not determined.Upper: Not determined.

· Flash point: 246 °C

Decomposition temperature: Not determined.pH Not determined.

· Viscosity:

· Kinematic viscosity at 40 °C 460 mm²/s

Viscosity at 100°C:

· **Dynamic:** Not determined.

Solubility

· water: Not miscible or difficult to mix.

· Partition coefficient n-octanol/water (log

value) Not determined.
• Vapour pressure: Not determined.

Density and/or relative density

Density: Not determined.
 Relative density Not determined.
 Density (@15°C) 0.859 g/cm³
 Vapour density Not determined.

· Other information

· Appearance:

· Form: Fluid

· Important information on protection of health

and environment, and on safety.

· **Ignition temperature:** Product is not selfigniting.

• Explosive properties: Product does not present an explosion hazard.

· Solvent content:

· VOC (EC)· Solids content:0.00 %

· Change in condition

· Evaporation rate Not determined.

· Information with regard to physical hazard

classes

Explosives VoidFlammable gases VoidAerosols Void

(Contd. on page 7)



Page 7/11

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 16.06.2023 Version number 2.0 (replaces version 1.4) Revision: 16.06.2023

Trade name: Oilfino Gradus 460

		(Contd. of page 6
· Oxidising gases	Void	
Gases under pressure	Void	
Flammable liquids	Void	
Flammable solids	Void	
Self-reactive substances and mixtures	Void	
Pyrophoric liquids	Void	
Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
Substances and mixtures, which emit		
flammable gases in contact with water	Void	
Oxidising liquids	Void	
Oxidising solids	Void	
Organic peroxides	Void	
Corrosive to metals	Void	
Desensitised explosives	Void	

SECTION 10: Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- · Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity Based on available data, the classification criteria are not met.

. 1	D/I C50	values	relevant fo	or classi	fication:
L	_レ/ L ひりり	values	reievailt it	JI GIGSSI	IIICALIUII.

•		icity Estimates)
Dermal	LD50	>83,667 mg/kg
Inhalative	LD50	>16.7 ma/ka

(Contd. on page 8)



Page 8/11

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 16.06.2023 Version number 2.0 (replaces version 1.4) Revision: 16.06.2023

Trade name: Oilfino Gradus 460

			(Contd. of page 7)		
Amine, C	10-14-t	tert-Alkyl			
Oral	LD50	612 mg/kg (rat)			
Dermal	LD50	251 mg/kg (rabbit)			
1213789-6	1213789-63-9 C16-18- (even, saturated and unsaturated) alkylamines				
Oral	LD50	>1,200 mg/kg (rat)			
Dermal	LD50	>2,000 mg/kg (rat)			

- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.
- Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· Toxicity

· Aquatic toxicity:			
Amine, C10-14-ter	rt-Alkyl		
LC50 (96) ppm	>157-<249 ppm /Gas (rat)		
LC50 (96h) mg/ltr.	1.3 mg/ltr (Fish)		
EC50 (72h)	0.435 mg/l (algae)		
EC50 (48h)	2.5 mg/ltr. (Daphnia magna)		
NOEC	0.05 mg/l /3d (algae)		
	0.078 mg/l (Fish)		
1213789-63-9 C16	-18- (even, saturated and unsaturated) alkylamines		
LC50 (96h) mg/ltr.	>0.84 mg/ltr (Fish, minnows)		
EC50 (48h)	0.32 mg/l (daphnia)		
EC50 (72h)	>0.39 mg/l (algae)		
	(Contd. on page 9)		

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Page 9/11

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 16.06.2023 Version number 2.0 (replaces version 1.4) Revision: 16.06.2023

Trade name: Oilfino Gradus 460

NOEC 0.63 mg/l /4d (Fish)

(Contd. of page 8)

- · Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- · Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- Other adverse effects No further relevant information available.
- · Remark: Harmful to fish
- Additional ecological information:
- General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Self-classification according to Annex 1 (to § 4 paragraph 1, § 8 paragraph 1 and § 10 paragraph 2) of the Ordinance on Facilities for Handling Substances Hazardous to Water 1, 2 (AwSV). Harmful to aquatic organisms

SECTION 13: Disposal considerations

- · Waste treatment methods
- Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

- · UN number or ID number
- · ADR, IMDG, IATA not regulated
- · UN proper shipping name
- · ADR, IMDG, IATA not regulated

(Contd. on page 10)



Page 10/11

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 16.06.2023 Version number 2.0 (replaces version 1.4) Revision: 16.06.2023

Trade name: Oilfino Gradus 460

		(Contd. of page 9
· Transport hazard class(es)		
· ADR, ADN, IMDG, IATA · Class	not regulated	
· Packing group · ADR, IMDG, IATA	not regulated	
· Environmental hazards:	Not applicable.	
· Special precautions for user	Not applicable.	
· Maritime transport in bulk according instruments	g to IMO Not applicable.	
· UN "Model Regulation":	not regulated	

SECTION 15: Regulatory information

 Safety, health and environmental regulations/legislation specific for the substance or mixture: (Substances not listed)

None of the ingredients is listed.

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · National regulations:
- · VOC (EU) 0.0 g/l
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

· Disclaimer

This safety data sheet contains only safety relevant information. The information is based on the state of our knowledge at the time of revision, however, it does not constitute a guarantee of product properties, product information or product specifications and does not establish a contractual legal relationship. This document is only valid in its unchanged form. In the event of changes by third parties, the exhibitor accepts no responsibility for form and content or for any damages or claims arising from such changes. The information is not transferable to other products. If the product named in this safety data sheet is mixed, blended or processed with other materials or is subjected to processing, the information in this safety data sheet cannot be transferred to the new material produced in this way, unless expressly stated otherwise. The data sheet does not release the user

(Contd. on page 11)



Page 11/11

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 16.06.2023 Version number 2.0 (replaces version 1.4) Revision: 16.06.2023

Trade name: Oilfino Gradus 460

(Contd. of page 10)

from the obligation to ensure that he acts in accordance with all regulations in connection with his activity.

Relevant phrases

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eve damage.

H330 Fatal if inhaled.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Contact: MSDS authorized Person

Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (ÚK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity - Category 4

Acute Tox. 3: Acute toxicity – Category 3 Acute Tox. 2: Acute toxicity – Category 2

Skin Corr. 1B: Skin corrosion/irritation - Category 1B

Eye Dam. 1: Serious eye damage/eye irritation - Category 1

Skin Sens. 1A: Skin sensitisation - Category 1A

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2

Asp. Tox. 1: Aspiration hazard - Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

* Data compared to the previous version altered.