

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



ANTI-TERRA-202

Version 12.0
SDB_MT

Revision Date: 14.03.2025

Date of last issue: 04.12.2024
Print Date 21.05.2025

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

1.1 Product identifier

Trade name : ANTI-TERRA-202
UFI : 52A8-S0GT-J00F-GYYK
Product code : 00000000000114163

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

Use of the Substance/Mixture : Wetting & Dispersing Additive

1.3 Details of the supplier of the safety data sheet

Company : BYK-Chemie GmbH
Abelstrasse 45
46483 Wesel
Telephone : +49 281 670-0
Telefax : +49 281 65735

Information : Regulatory Affairs
Telephone : +49 281 670-23532
Telefax : +49 281 670-23533
E-mail address : GHS.BYK@altana.com

1.4 Emergency telephone number

+44 1235 239670

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3	H226: Flammable liquid and vapour.
Acute toxicity, Category 4	H302: Harmful if swallowed.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Carcinogenicity, Category 1B	H350: May cause cancer.
Specific target organ toxicity - single exposure, Category 3, Central nervous system	H336: May cause drowsiness or dizziness.
Specific target organ toxicity - repeated exposure, Category 1	H372: Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard, Category 1	H304: May be fatal if swallowed and enters airways.
Long-term (chronic) aquatic hazard, Category 2	H411: Toxic to aquatic life with long lasting effects.

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2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H336 May cause drowsiness or dizziness.
H350 May cause cancer.
H372 Causes damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

Supplemental Hazard Statements : EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements : **Prevention:**
P201 Obtain special instructions before use.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe mist or vapours.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P331 Do NOT induce vomiting.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P391 Collect spillage.

Hazardous components which must be listed on the label:

- 64742-82-1 naphtha (petroleum), hydrodesulphurized heavy; Low boiling point hydrogen treated naphtha

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- 147900-93-4 Fatty acids, C-18, unsatd. trimers, compd. with 9-octadecen-1-amine, (Z)-
- 85711-55-3 Fatty acids, tall-oil, compds. with oleylamine
- 98-82-8 cumene

Additional Labelling

Restricted to professional users.

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.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Solution of an alkylammonium salt of a polycarboxylic acid

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
naphtha (petroleum), hydrodesulphurized heavy; Low boiling point hydrogen treated naphtha	64742-82-1 01-2119458049-33	STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Chronic 2; H411 Flam. Liq. 3; H226 STOT RE 1; H372 (Central nervous system) EUH066	>= 30 - < 50
Fatty acids, C-18, unsatd. trimers, compd. with 9-octadecen-1-amine, (Z)-	147900-93-4 01-2119971821-33-0000	Acute Tox. 4; H302 Skin Sens. 1; H317 STOT RE 2; H373 (Gastrointestinal tract) Aquatic Chronic 2;	>= 30 - < 50

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		H411	
		Acute toxicity estimate	
		Acute oral toxicity: 1.570,157 mg/kg	
Fatty acids, tall-oil, compds. with oleylamine	85711-55-3 288-315-1 01-2119974148-28-0000	Eye Dam. 1; H318 Skin Sens. 1A; H317 STOT RE 2; H373 (Gastrointestinal tract)	$\geq 20 - < 25$
2-butoxyethanol	111-76-2 203-905-0 01-2119475108-36	Acute Tox. 4; H302 Acute Tox. 3; H331 Skin Irrit. 2; H315 Eye Irrit. 2; H319	$\geq 3 - < 5$
		Acute toxicity estimate	
		Acute oral toxicity: 1.200 mg/kg Acute inhalation toxicity (vapour): 3 mg/l	
cumene	98-82-8 202-704-5	Flam. Liq. 3; H226 Carc. 1B; H350 STOT SE 3; H335 (Respiratory system) Asp. Tox. 1; H304 Aquatic Chronic 2; H411	$\geq 0,25 - < 0,5$

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Symptoms of poisoning may appear several hours later.
Do not leave the victim unattended.
- If inhaled : Consult a physician after significant exposure.
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : If on skin, rinse well with water.
If on clothes, remove clothes.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible

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tissue damage and blindness.
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

Risks : Harmful if swallowed.
May be fatal if swallowed and enters airways.
May cause an allergic skin reaction.
Causes serious eye damage.
May cause drowsiness or dizziness.
May cause cancer.
Causes damage to organs through prolonged or repeated exposure.
Repeated exposure may cause skin dryness or cracking.

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 : Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Carbon oxides
Oxides of phosphorus
Nitrogen oxides (NO_x)

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5.3 Advice for firefighters

- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
For safety reasons in case of fire, cans should be stored separately in closed containments.
Use a water spray to cool fully closed containers.
-

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : Use personal protective equipment.
Ensure adequate ventilation.
Remove all sources of ignition.
Evacuate personnel to safe areas.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.2 Environmental precautions

- Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

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 disposal considerations see section 13., For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Advice on safe handling : Avoid formation of aerosol.
Do not breathe vapours/dust.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Take precautionary measures against static discharges.
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- Provide sufficient air exchange and/or exhaust in work rooms.
Open drum carefully as content may be under pressure.
To avoid spills during handling keep bottle on a metal tray.
Dispose of rinse water in accordance with local and national regulations.
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from open flames, hot surfaces and sources of ignition.
- Hygiene measures : When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.
- Further information on storage stability : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

- Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
2-butoxyethanol	111-76-2	TWA	20 ppm 98 mg/m ³	2000/39/EC
		Further information: Identifies the possibility of significant uptake through the skin, Indicative		
		STEL	50 ppm 246 mg/m ³	2000/39/EC
		Further information: Identifies the possibility of significant uptake through the skin, Indicative		
		TWA	20 ppm 98 mg/m ³	MT OEL
		Further information: A skin notation assigned to the OEL identifies the possibility of significant uptake through the skin.		
		STEL	50 ppm 246 mg/m ³	MT OEL

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	Further information: A skin notation assigned to the OEL identifies the possibility of significant uptake through the skin.			
cumene	98-82-8	TWA	20 ppm 100 mg/m ³	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	50 ppm 250 mg/m ³	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		TWA	10 ppm 50 mg/m ³	MT OEL
	Further information: A skin notation assigned to the OEL identifies the possibility of significant uptake through the skin.			
		STEL	50 ppm 250 mg/m ³	MT OEL
	Further information: A skin notation assigned to the OEL identifies the possibility of significant uptake through the skin.			
		TWA	10 ppm 50 mg/m ³	2019/1831/E U
	Further information: A skin notation assigned to the occupational exposure limit value indicates the possibility of significant uptake through the skin., Indicative			
		STEL	50 ppm 250 mg/m ³	2019/1831/E U
	Further information: A skin notation assigned to the occupational exposure limit value indicates the possibility of significant uptake through the skin., Indicative			

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

Substance name	End Use	Exposure routes	Potential health effects	Value
naphtha (petroleum), hydrodesulphurized heavy; Low boiling point hydrogen treated naphtha	Workers	Inhalation	Long-term systemic effects	330 mg/m ³
	Workers	Skin contact	Long-term systemic effects	21 mg/kg
	Consumers	Inhalation	Long-term systemic effects	71 mg/m ³
	Consumers	Skin contact	Long-term systemic effects	12 mg/kg
	Consumers	Ingestion	Long-term systemic effects	21 mg/kg
Fatty acids, C-18, unsatd. trimers, compd. with 9-octadecen-1-amine, (Z)-	Workers	Dermal	Long-term systemic effects	0,024 mg/kg
	Consumers	Dermal	Long-term systemic effects	0,012 mg/kg

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	Consumers	Oral	Long-term systemic effects	0,012 mg/kg
Fatty acids, tall-oil, compds. with oleylamine	Workers	Dermal	Long-term systemic effects	0,024 mg/kg
	Consumers	Dermal	Long-term systemic effects	0,012 mg/kg
	Consumers	Oral	Long-term systemic effects	0,012 mg/kg
2-butoxyethanol	Workers	Skin contact	Acute systemic effects	89 mg/kg
	Workers	Inhalation	Acute systemic effects	135 ppm
	Workers	Inhalation	Acute local effects	50 ppm
	Workers	Skin contact	Long-term systemic effects	75 mg/kg
	Workers	Inhalation	Long-term systemic effects	20 ppm
	Consumers	Skin contact	Acute systemic effects	44,5 mg/kg
	Consumers	Inhalation	Acute systemic effects	426 mg/m3
	Consumers	Ingestion	Acute systemic effects	13,4 mg/kg
	Consumers	Inhalation	Acute local effects	123 mg/m3
	Consumers	Skin contact	Long-term systemic effects	38 mg/kg
	Consumers	Inhalation	Long-term systemic effects	49 mg/m3
	Consumers	Ingestion	Long-term systemic effects	3,2 mg/kg

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

Substance name	Environmental Compartment	Value
Fatty acids, C-18, unsatd. trimers, compd. with 9-octadecen-1-amine, (Z)-	Fresh water	0,006 mg/l
	Marine water	0,0006 mg/l
	Fresh water sediment	2,46 mg/kg
	Marine sediment	0,25 mg/kg
	Soil	0,28 mg/kg
	Hazard for predators: secondary poisoning	0,47 mg/kg
Fatty acids, tall-oil, compds. with oleylamine	Hazard for predators: secondary poisoning	0,47 mg/kg
2-butoxyethanol	Fresh water	8,8 mg/l
	Marine water	0,88 mg/l
	Sewage treatment plant	463 mg/l
	Fresh water sediment	34,6 mg/kg
	Marine sediment	3,46 mg/kg
	Soil	2,8 mg/kg

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8.2 Exposure controls

Personal protective equipment

- Eye/face protection : Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.
- Hand protection
Material : Impervious gloves
- Material : Nitrile rubber
Break through time : > 480 min
Glove thickness : 0,4 mm
- Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Respiratory protection : In the case of vapour formation use a respirator with an approved filter.
- Filter type : Type A (A)

Environmental exposure controls

- General advice : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Physical state : liquid
- Colour : light brown
- Odour : hydrocarbon-like
- Odour Threshold : No data available
- Melting point/ range : No data available
- Initial boiling point : No data available
- Upper explosion limit / Upper flammability limit : 10,60 %(V)
- Lower explosion limit / Lower flammability limit : 0,60 %(V)

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Flash point	:	40,00 °C Method: 48 (Abel-Pensky) DIN 51755
Auto-ignition temperature	:	> 200 °C Method: calculated
Decomposition temperature	:	No data available
pH	:	7 (20 °C) Concentration: 1 % Method: Universal pH-value indicator
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Solubility(ies)		
Water solubility	:	immiscible
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Vapour pressure	:	6,0000000 hPa (20,00 °C) Method: derived
Relative density	:	No data available
Density	:	0,8500 g/cm ³ (20,00 °C) Method: 4 (20°C oscillating U-tube)
Bulk density	:	Not applicable
Relative vapour density	:	No data available

9.2 Other information

Evaporation rate	:	No data available
Surface tension	:	No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

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10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.
Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents
Alkalis

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Harmful if swallowed.

Product:

Acute oral toxicity : Acute toxicity estimate: 1.501 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Components:

Fatty acids, C-18, unsatd. trimers, compd. with 9-octadecen-1-amine, (Z)-:

Acute oral toxicity : LD50 Oral (Rat, male and female): > 1.570 mg/kg
GLP: yes

Acute toxicity estimate: 1.570,157 mg/kg
Method: Calculation method

Fatty acids, tall-oil, compds. with oleylamine:

Acute oral toxicity : LD50 Oral (Rat, female): > 2.000 mg/kg
Method: OECD Test Guideline 423
GLP: yes

2-butoxyethanol:

Acute oral toxicity : Acute toxicity estimate: 1.200 mg/kg
Method: Acute toxicity estimate according to Regulation (EC)

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No. 1272/2008

Acute inhalation toxicity : Acute toxicity estimate: 3 mg/l
Test atmosphere: vapour
Method: Acute toxicity estimate according to Regulation (EC)
No. 1272/2008

Skin corrosion/irritation

Repeated exposure may cause skin dryness or cracking.

Product:

Remarks : May cause skin irritation and/or dermatitis.

Components:

Fatty acids, C-18, unsatd. trimers, compd. with 9-octadecen-1-amine, (Z)-:

Species : EPISKIN human epidermis skin constructs
Method : OECD Test Guideline 439
Result : No skin irritation
GLP : yes

Fatty acids, tall-oil, compds. with oleylamine:

Species : EPISKIN human epidermis skin constructs
Method : OECD Test Guideline 439
Result : No skin irritation
GLP : yes

2-butoxyethanol:

Species : Rabbit
Result : Skin irritation

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Remarks : May cause irreversible eye damage.

Components:

Fatty acids, C-18, unsatd. trimers, compd. with 9-octadecen-1-amine, (Z)-:

Species : Bovine corneal opacity and permeability assay (BCOP)
Method : OECD Test Guideline 437
Result : No eye irritation
GLP : yes

Species : Rabbit
Method : OECD Test Guideline 405
Result : No eye irritation
GLP : yes

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Fatty acids, tall-oil, compds. with oleylamine:

Species : Rabbit
Assessment : Risk of serious damage to eyes.
Method : OECD Test Guideline 405
Result : Risk of serious damage to eyes.
GLP : yes

2-butoxyethanol:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Eye irritation
GLP : yes

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified due to lack of data.

Product:

Remarks : Causes sensitisation.

Components:

Fatty acids, C-18, unsatd. trimers, compd. with 9-octadecen-1-amine, (Z)-:

Test Type : Mouse Local Lymph Node assay (LLNA)
Species : Mouse
Assessment : The product is a skin sensitiser, sub-category 1B.
Method : OECD Test Guideline 429
Result : May cause sensitisation by skin contact.
GLP : yes

Fatty acids, tall-oil, compds. with oleylamine:

Test Type : Mouse Local Lymph Node assay (LLNA)
Species : Mouse
Assessment : The product is a skin sensitiser, sub-category 1A.
Method : OECD Test Guideline 429
Result : May cause sensitisation by skin contact.
GLP : yes

2-butoxyethanol:

Test Type : Maximisation Test
Exposure routes : Dermal
Species : Guinea pig

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Method : OECD Test Guideline 406
Result : Does not cause skin sensitisation.
GLP : yes

Germ cell mutagenicity

Not classified due to lack of data.

Components:

naphtha (petroleum), hydrodesulphurized heavy; Low boiling point hydrogen treated naphtha:

Germ cell mutagenicity-
Assessment : Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

Fatty acids, C-18, unsatd. trimers, compd. with 9-octadecen-1-amine, (Z)-:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Test Type: Chromosome aberration test in vitro
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes

Test Type: In vitro mammalian cell gene mutation test (mouse lymphoma)

Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

Fatty acids, tall-oil, compds. with oleylamine:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Test Type: Chromosome aberration test in vitro
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes

Test Type: In vitro mammalian cell gene mutation test (mouse lymphoma)

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Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

Carcinogenicity

May cause cancer.

Components:

naphtha (petroleum), hydrodesulphurized heavy; Low boiling point hydrogen treated naphtha:

Carcinogenicity - Assessment : Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

Reproductive toxicity

Not classified due to lack of data.

STOT - single exposure

May cause drowsiness or dizziness.

STOT - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Repeated dose toxicity

Product:

Remarks : No data available

Components:

Fatty acids, C-18, unsatd. trimers, compd. with 9-octadecen-1-amine, (Z)-:

Species : Rat, male and female
NOAEL : 7,1 mg/kg
Application Route : Oral
Method : OECD Test Guideline 422
GLP : yes
Target Organs : Gastrointestinal tract
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

Byk 01 start

Fatty acids, tall-oil, compds. with oleylamine:

Species : Rat, male and female
NOAEL : 7,1 mg/kg
Application Route : Oral

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Method : OECD Test Guideline 422
GLP : yes
Target Organs : Gastrointestinal tract
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

Aspiration toxicity

May be fatal if swallowed and enters airways.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Further information

Product:

Remarks : Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Concentrations substantially above the TLV value may cause narcotic effects.
Solvents may degrease the skin.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : Remarks: Aquatic toxicity is unlikely due to low solubility.

Components:

naphtha (petroleum), hydrodesulphurized heavy; Low boiling point hydrogen treated naphtha:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 10 - 30 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 10 - 22 mg/l
Exposure time: 48 h
Test Type: static test

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Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella subcapitata (green algae)): 3,1 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes

NOELR (Pseudokirchneriella subcapitata (green algae)): 0,5 mg/l
Exposure time: 72 h

Fatty acids, C-18, unsatd. trimers, compd. with 9-octadecen-1-amine, (Z)-:

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : ErL50 (Pseudokirchneriella subcapitata (green algae)): 7,89 mg/l
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

EbC50 (Pseudokirchneriella subcapitata (green algae)): 4,44 mg/l
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

EyC50 (Pseudokirchneriella subcapitata (green algae)): 3,68 mg/l
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

NOELR (Pseudokirchneriella subcapitata (green algae)):

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	0,305 mg/l
	Test Type: static test
	Analytical monitoring: yes
	Method: OECD Test Guideline 201
	GLP: yes
Toxicity to microorganisms	: EC50 (activated sludge): > 1.000 mg/l
	Exposure time: 3 h
	Test Type: static test
	Method: OECD Test Guideline 209
	GLP: yes
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOELR: > 100 mg/l
	Exposure time: 21 d
	Species: Daphnia magna (Water flea)
	Test Type: semi-static test
	Method: OECD Test Guideline 211
	GLP: yes
Fatty acids, tall-oil, compds. with oleylamine:	
Toxicity to fish	: NOEC (Leuciscus idus (Golden orfe)): 150 mg/l
	Exposure time: 48 h
	Test Type: static test
	Method: DIN 38412
	GLP: no
	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l
	Exposure time: 96 h
	Test Type: semi-static test
	Method: OECD Test Guideline 203
	GLP: yes
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 15,2 mg/l
	Exposure time: 48 h
	Test Type: static test
	Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	: ErC50 (Pseudokirchneriella subcapitata (green algae)): 7,43 mg/l
	Exposure time: 72 h
	Method: OECD Test Guideline 201
	GLP: yes
	EbC50 (Pseudokirchneriella subcapitata (green algae)): 6,01 mg/l
	Exposure time: 72 h
	Method: OECD Test Guideline 201
	GLP: yes
	NOELR (Pseudokirchneriella subcapitata (green algae)): 3,05 mg/l
	Method: OECD Test Guideline 201

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GLP: yes

Toxicity to microorganisms : EC50 (*Pseudomonas putida*): > 400 mg/l
Exposure time: 16 h
Test Type: Cell multiplication inhibition test
Method: DIN 38412, L 8
GLP: no

EC50 (activated sludge): > 1.000 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209
GLP: yes

2-butoxyethanol:

Toxicity to fish : LC50 (*Oncorhynchus mykiss* (rainbow trout)): 1.474 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 1.550 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (*Pseudokirchneriella subcapitata* (green algae)): 1.840 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOEC: > 100 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 204

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 100 mg/l
Exposure time: 21 d
Species: *Daphnia magna* (Water flea)
Test Type: semi-static test
Method: OECD Test Guideline 211

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: No data available

Components:

naphtha (petroleum), hydrodesulphurized heavy; Low boiling point hydrogen treated naphtha:

Biodegradability : Result: Readily biodegradable.
Method: OECD Test Guideline 301F

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GLP: yes

Fatty acids, C-18, unsatd. trimers, compd. with 9-octadecen-1-amine, (Z)-:

Biodegradability : Result: Not readily biodegradable.
Method: OECD Test Guideline 301F
GLP: yes

Fatty acids, tall-oil, compds. with oleylamine:

Biodegradability : Result: Readily biodegradable.
Method: OECD Test Guideline 301
GLP: yes

2-butoxyethanol:

Biodegradability : Test Type: aerobic
Result: Readily biodegradable.
Method: OECD Test Guideline 301B

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

Components:

2-butoxyethanol:

Partition coefficient: n- : log Pow: 0,81 (25 °C)
octanol/water pH: 7

12.4 Mobility in soil

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 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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12.7 Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: Transport information

14.1 UN number or ID number

ADR : UN 1268
IMDG : UN 1268
IATA : UN 1268

14.2 UN proper shipping name

ADR : PETROLEUM DISTILLATES, N.O.S.
(Mineral spirit)
IMDG : PETROLEUM DISTILLATES, N.O.S.
(Mineral spirit)
IATA : Petroleum distillates, n.o.s.
(Mineral spirit)

14.3 Transport hazard class(es)

ADR : 3
IMDG : 3
IATA : 3

14.4 Packing group

ADR
Packing group : III

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Classification Code : F1
Hazard Identification Number : 30
Labels : 3
Tunnel restriction code : D/E

IMDG

Packing group : III
Labels : 3
EmS Code : F-E, S-E
Remarks : IMDG Code segregation group - none

IATA (Cargo)

Packing instruction (cargo aircraft) : 366
Packing group : III
Labels : Flammable Liquids

IATA (Passenger)

Packing instruction (passenger aircraft) : 355
Packing instruction (LQ) : Y344
Packing group : III
Labels : Flammable Liquids

14.5 Environmental hazards

ADR

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:
Number on list 3

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)

Number on list 28: cumene

REACH - Restrictions on the manufacture, placing on

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

Number on list 75: If you intend to
use this product as tattoo ink, please
contact your vendor.

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

Seveso III: Directive 2012/18/EU of the
European Parliament and of the Council on the
control of major-accident hazards involving
dangerous substances.

E2 ENVIRONMENTAL HAZARDS

P5c FLAMMABLE LIQUIDS

15.2 Chemical safety assessment

Not applicable

SECTION 16: Other information

Items where relevant changes have been made to the previous version are highlighted in the
body of this document by two vertical lines.

Full text of H-Statements

- H226 : Flammable liquid and vapour.
- H302 : Harmful if swallowed.
- H304 : May be fatal if swallowed and enters airways.
- H315 : Causes skin irritation.
- H317 : May cause an allergic skin reaction.
- H318 : Causes serious eye damage.
- H319 : Causes serious eye irritation.
- H331 : Toxic if inhaled.
- H335 : May cause respiratory irritation.
- H336 : May cause drowsiness or dizziness.
- H350 : May cause cancer.
- H372 : Causes damage to organs through prolonged or repeated exposure.
- H373 : May cause damage to organs through prolonged or repeated exposure if swallowed.
- H411 : Toxic to aquatic life with long lasting effects.
- EUH066 : Repeated exposure may cause skin dryness or cracking.

Full text of other abbreviations

- Acute Tox. : Acute toxicity
- Aquatic Chronic : Long-term (chronic) aquatic hazard
- Asp. Tox. : Aspiration hazard
- Carc. : Carcinogenicity

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Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Flam. Liq.	: Flammable liquids
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitisation
STOT RE	: Specific target organ toxicity - repeated exposure
STOT SE	: Specific target organ toxicity - single exposure
2000/39/EC	: Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
2019/1831/EU	: Europe. Commission Directive 2019/1831/EU establishing a fifth list of indicative occupational exposure limit values
MT OEL	: Malta. Occupational Exposure Limits
2000/39/EC / TWA	: Limit Value - eight hours
2000/39/EC / STEL	: Short term exposure limit
2019/1831/EU / TWA	: Limit Value - eight hours
2019/1831/EU / STEL	: Short term exposure limit
MT OEL / TWA	: Long term exposure limit
MT OEL / STEL	: Occupational exposure limit value Short-term, 15 minute

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; 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 Substance Inventory; TECl - Thailand Existing Chemicals 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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Classification of the mixture:

Flam. Liq. 3	H226
Acute Tox. 4	H302
Eye Dam. 1	H318
Skin Sens. 1	H317
Carc. 1B	H350
STOT SE 3	H336
STOT RE 1	H372
Asp. Tox. 1	H304
Aquatic Chronic 2	H411

Classification procedure:

Based on product data or assessment
Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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