

## ANTI-TERRA-202

Product code: 00000000000114163

Version 5.0 SDS\_APJ\_MY

Revision Date 14.03.2025

Print Date 19.03.2025

### SECTION 1: Identification of the hazardous chemical and of the supplier

#### Product identifier

Product name : ANTI-TERRA-202

Recommended use : Wetting & Dispersing Additive

#### Manufacturer or supplier's details

Company : BYK-Chemie GmbH

Address : Abelstrasse 45  
46483 Wesel

Telephone : +49 281 670-23532

Telefax : +49 281 670-23533

E-mail address : GHS.BYK@altana.com

Emergency telephone number : +60 3 6207 4347 (Malay and English)  
+65 3158 1074 (All languages)

### SECTION 2: Hazards identification

#### Classification of the hazardous chemical

Flammable liquids : Category 3

Acute toxicity (Oral) : Category 4

Serious eye damage/eye irritation : Category 1

Skin sensitisation : Category 1

Specific target organ toxicity - single exposure : Category 3 (Central nervous system)

Specific target organ toxicity - repeated exposure : Category 1 (Central nervous system)

Specific target organ toxicity - repeated exposure (Oral) : Category 2 (Gastrointestinal tract)

Aspiration hazard : Category 1

Hazardous to the aquatic environment - chronic hazard : Category 2

#### Label elements

Hazard pictograms : 

Signal word : Danger

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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.  
 H372 Causes damage to organs (Central nervous system) through prolonged or repeated exposure.  
 H373 May cause damage to organs (Gastrointestinal tract) through prolonged or repeated exposure if swallowed.  
 H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
 P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.  
 P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/ eye protection/ face protection.

**Response:**  
 P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.  
 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 or doctor/ physician.  
 P331 Do NOT induce vomiting.  
 P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.  
 P391 Collect spillage.

### Other hazards which do not result in classification

None known.

## SECTION 3: Composition and information of the ingredients of the hazardous chemical

Substance / Mixture : Mixture  
 Chemical nature : Solution of an alkylammonium salt of a polycarboxylic acid

### Components

Chemical name	CAS-No.	Concentration (% w/w)
naphtha (petroleum), hydrodesulphurized heavy; Low boiling point hydrogen treated naphtha	64742-82-1	>= 30 -< 50
Fatty acids, C18-unsaturated trimers, compound with 9-octadecen-1-amine, (Z)-	147900-93-4	>= 30 -< 50
Fatty acids, tall-oil, compds. with oleylamine	85711-55-3	>= 20 -< 25
2-butoxyethanol	111-76-2	>= 3 -< 5

## SECTION 4: First aid measures

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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 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.
Most important symptoms and effects, both acute and delayed	:	No information available.
Notes to physician	:	No information available.

### SECTION 5: Firefighting measures

#### Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : High volume water jet

#### Physicochemical hazards arising from the chemical

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<sub>x</sub>)

#### Special protective equipment and precautions for fire-fighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.  
Specific extinguishing methods : 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.

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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**

- Personal precautions, protective equipment and emergency procedures : 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.
- 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.
- Methods and materials for containment and 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).

**SECTION 7: Handling and storage****Handling****Precautions for safe handling**

- 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.
- 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.  
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.

**Storage****Conditions for safe storage, including any incompatibilities**

- Conditions for safe storage : No smoking.

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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.

**SECTION 8: Exposure controls and personal protection**
**Control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
2-butoxyethanol	111-76-2	TWA	20 ppm 96.7 mg/m <sup>3</sup>	MY PEL
Further information: Skin				
		TWA	20 ppm	ACGIH

**Biological occupational exposure limits**

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
2-butoxyethanol	111-76-2	Butoxyacetic acid (BAA)	Urine	End of shift (As soon as possible after exposure ceases)	200 mg/g creatinine	ACGIH BEI

**Individual protection measures, such as personal protective equipment (PPE)**

Eye/face protection : Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.

Skin protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hand protection  
Material : Impervious gloves

Material : Nitrile rubber  
Break through time : > 480 min  
Glove thickness : 0.4 mm

Remarks : Wear suitable gloves.

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

Filter type : Type A

Hygiene measures : When using do not eat or drink.  
When using do not smoke.

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Wash hands before breaks and at the end of workday.

**SECTION 9: Physical and chemical properties**

Appearance	:	liquid
Colour	:	light brown
Odour	:	hydrocarbon-like
Odour Threshold	:	No data available
pH	:	7 (20 °C) Concentration: 1 % Method: Universal pH-value indicator
Melting point/ range	:	No data available
Initial boiling point	:	No data available
Flash point	:	40.00 °C  Method: 48 (Abel-Pensky) DIN 51755
Evaporation rate	:	No data available
Upper explosion limit / Upper flammability limit	:	10.60 %(V)
Lower explosion limit / Lower flammability limit	:	0.60 %(V)
Vapour pressure	:	6.0000000 hPa (20.00 °C) Method: derived
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	0.8500 g/cm <sup>3</sup> (20.00 °C) Method: 4 (20°C oscillating U-tube)
Bulk density	:	Not applicable
Solubility(ies)		
Water solubility	:	immiscible
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	> 200 °C Method: calculated
Decomposition temperature	:	No data available

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Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Surface tension	:	No data available

**SECTION 10: Stability and reactivity**

Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	No decomposition if stored and applied as directed. Vapours may form explosive mixture with air.
Conditions to avoid	:	Heat, flames and sparks.
Incompatible materials	:	Strong oxidizing agents Alkalis
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

**SECTION 11: Toxicological information**

Information on likely routes of exposure : None known.

**Acute toxicity****Product:**

Acute oral toxicity : Acute toxicity estimate: 1,384 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, C18-unsaturated trimers, compound with 9-octadecen-1-amine, (Z)-:**

Acute oral toxicity : LD50 Oral (Rat, male and female): > 1,570 mg/kg  
GLP: yes

**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

**Skin corrosion/irritation****Product:**

Remarks : May cause skin irritation and/or dermatitis.

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**Components:****Fatty acids, C18-unsaturated trimers, compound 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****Product:**

Remarks : May cause irreversible eye damage.

**Components:****Fatty acids, C18-unsaturated trimers, compound with 9-octadecen-1-amine, (Z)-:**

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

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

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

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

**2-butoxyethanol:**

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

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**Respiratory or skin sensitisation****Product:**

Remarks : Causes sensitisation.

**Components:****Fatty acids, C18-unsaturated trimers, compound 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  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitisation.  
GLP : yes

**Germ cell mutagenicity****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, C18-unsaturated trimers, compound 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

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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)

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

**Carcinogenicity****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)

**Repeated dose toxicity****Product:**

Remarks : No data available

**Components:****Fatty acids, C18-unsaturated trimers, compound 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

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Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

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

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.

**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****Ecotoxicity****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  
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

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NOELR (Pseudokirchneriella subcapitata (green algae)): 0.5 mg/l  
Exposure time: 72 h

**Fatty acids, C18-unsaturated trimers, compound 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)): 0.305 mg/l  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes

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

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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

**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  
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

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	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 (Daphnia magna (Water flea)): 100 mg/l Exposure time: 21 d Test Type: semi-static test Method: OECD Test Guideline 211

**Persistence and degradability****Components:****naphtha (petroleum), hydrodesulphurized heavy; Low boiling point hydrogen treated naphtha:**

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

**Fatty acids, C18-unsaturated trimers, compound 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 : aerobic  
Result: Readily biodegradable.  
Method: OECD Test Guideline 301B

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### Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: No data available

#### Components:

#### 2-butoxyethanol:

Partition coefficient: n-  
octanol/water : log Pow: 0.81 (25 °C)  
pH: 7

#### Mobility in soil

No data available

#### 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 information

### Disposal methods

Waste from residues : 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

### International Regulations

#### IATA-DGR

UN/ID No. : UN 1268  
Proper shipping name : Petroleum distillates, n.o.s.  
(Mineral spirit)  
Class : 3  
Packing group : III  
Labels : Flammable Liquids  
Packing instruction (cargo  
aircraft) : 366  
Packing instruction  
(passenger aircraft) : 355

#### IMDG-Code

UN number : UN 1268  
Proper shipping name : PETROLEUM DISTILLATES, N.O.S.

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(Mineral spirit)

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

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

Not applicable for product as supplied.

### 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.

## SECTION 15: Regulatory information

### Safety, health, and environmental regulations specific for the hazardous chemical

Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013.

Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000.

## SECTION 16: Other information

Date format : dd.mm.yyyy

### Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI	:	ACGIH - Biological Exposure Indices (BEI)
MY PEL	:	Malaysia. Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000.

ACGIH / TWA : 8-hour, time-weighted average

MY PEL / TWA : Eight-hour time-weighted average airborne concentration

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ERG - Emergency Response Guide; 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

**ANTI-TERRA-202**

Product code: 000000000000114163

Version 5.0 SDS\_APJ\_MY

Revision Date 14.03.2025

Print Date 19.03.2025

- 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; 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; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals 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; WHMIS - Workplace Hazardous Materials Information System

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.

MY / EN