

Safety Data Sheet
Andrepol 500 AT
07.02.2022

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

1.1. Product identifier

Identification of the mixture:

Trade name: Andrepol 500 AT

Trade code:

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

Recommended use: Auxiliary for mixed materials

1.3. Details of the supplier providing the safety data sheet Supplier:

GFK / tec GmbH
Crossroad 3
37339 Leinefelde Worbis
Tel. +49 36074 189772

Competent person responsible of the safety data sheet:

torsten.hund@gfk-tec.de

1.4. Emergency number

Toxicology Department of the II. Medical Clinic rechts der Isar of the Technical University Munich - Munich - Tel. (0 89) 1 9240
Landesberatungsstelle für Vergiftungserscheinungen und Embryonaltoxikologie - Berlin - Tel. (030) 1 92 40
Information and Counselling Centre for Poisoning University Hospital for Paediatrics and Adolescent Medicine
- Homburg / Saar - Tel. (0 6841) 1 92 40

SECTION 2: Potential hazards

2.1. Classification of the substance or

mixture Criteria of GHS Directive

12  2008/EC:



Attention, Flam. Liq. 3, Flammable liquid and vapour.



Caution, Skin Irrit. 2, Causes skin irritation.



Caution, Eye Irrit. 2, Causes severe eye irritation.



Caution, Skin Sens. 1A, May cause an allergic skin reaction.



Caution, Repr. 2, May probably impair fertility or harm the unborn child.

Danger, STOT RE 1, Causes damage to organs through prolonged or repeated exposure.

Physico-chemical effects dangerous for human health and the environment: No other known risk

2.2. Labelling elements

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Hazard pictograms:



Danger Hazard

statements:

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes severe eye irritation.

H317 May cause an allergic skin reaction.

H361 Suspected of damaging fertility or the unborn child. H372 Causes damage to organs through prolonged or repeated exposure.

Safety instructions:

P202 Read and understand all safety instructions before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Do not smoke.

P240 Ground the container and the system to be filled.

P243 Take precautionary measures against static discharges.

P260 Do not breathe dust/fume/gas/mist/vapour/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P370+P378 In case of fire: Use CO₂, foam, chemical powder to extinguish.

Special regulations:

None

Contain

s:

Styrene

Cobalt bis(2-ethylhexanoate)

Special provisions according to Annex XVII of the REACH Regulation subsequent amendments:

None

2.3. Other hazards

Other risks:

No other known risk

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SECTION 3: Composition/Information on ingredients

3.1. Subst

ances

N.A.

3.2. Mixtures

Hazardous components according to Directive 67/548/EEC and according to the CLP Regulation, and associated classification:






>= 20% - < 25% styrene

REACH No.: 01-2119457861-32-xxxx, Index number: 601-026-00-0, CAS: 100-42-5, EC: 202-851-5

-  2.6/3 Flam. Liq. 3 H226
-  3.7/2 Repr. 2 H361d
-  3.1/4/Inhal Acute Tox. 4 H332
-  3.9/1 STOT RE 1 H372
-  3.2/2 Skin Irrit. 2 H315
-  3.3/2 Eye Irrit. 2 H319




>= 0.1% - < 0.2% Cobalt bis(2-ethylhexanoate)

REACH No.: 01-2119524678-29-xxxx, CAS: 136-52-7, EC: 205-250-6

-  3.3/2 Eye Irrit. 2 H319
-  3.7/2 Repr. 2 H361f
-  4.1/A1 Aquatic Acute 1 H400
-  3.4.2/1A Skin Sens. 1A H317
-  4.1/C3 Aquatic Chronic 3 H412

>= 0.06% - < 0.1% acetone









REACH No.: 01-2119471330-49-xxxx, Index number: 606-001-00-8, CAS: 67-64-1, EC: 200-662-2

-  2.6/2 Flam. Liq. 2 H225
-  3.3/2 Eye Irrit. 2 H319
-  3.8/3 STOT SE 3 H336

EUH066

>= 0.05% - < 0.06% Xylene [isomer mixture]

REACH No.: 01-2119488216-32-xxxx, Index number: 601-022-00-9, CAS: 1330-20-7, EC: 215-535-7

-  2.6/3 Flam. Liq. 3 H226
-  3.10/1 Asp. Tox. 1 H304
-  3.3/2 Eye Irrit. 2 H319
-  3.8/3 STOT SE 3 H335
-  3.9/2 STOT RE 2 H373
-  3.2/2 Skin Irrit. 2 H315
-  3.1/4/Dermal Acute Tox. 4 H312
-  3.1/4/Inhal Acute Tox. 4 H332

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>= 0.0015% - < 0.05% 1,4-dihydroxybenzene

REACH No.: 01-2119524016-51-xxxx, Index number: 604-005-00-4, CAS: 123-31-9, EC: 204-617-8

3.6/2 Carc. 2 H351

3.5/2 Muta. 2 H341

3.3/1 Eye Dam. 1 H318

3.4.2/1-1A-1B Skin Sens. 1, 1A, 1B H317

4.1/A1 Aquatic Acute 1 H400 M=10.

3.1/4/Oral Acute Tox. 4 H302

>= 0.0015% - < 0.05% Ethylbenzene

REACH No.: 01-2119489370-35-xxx, Index number: 601-023-00-4, CAS: 100-41-4, EC: 202-849-4



2.6/2 Flam. Liq. 2 H225



3.1/4/Inhal Acute Tox. 4 H332



3.9/2 STOT RE 2 H373



3.10 /1 Asp. Tox. 1 H304

>= 0.0015% - < 0.05% oxalic acid

Index number: 607-006-00-8, CAS: 144-62-7, EC: 205-634-3



3.1/4/Oral Acute Tox. 4 H302



3.1/4/Dermal Acute Tox. 4

H312

SECTION 4: First aid measures

4.1. Description of first aid measures After skin

contact:

Areas of the body that have come into contact with the product or where this is suspected must be washed immediately with plenty of running water and, if possible, with soap. Wash the body completely (shower or bath).

Immediately remove the contaminated clothing and dispose of it in a safe way. In case of skin contact, wash immediately with plenty of soap and water.

After eye contact:

In case of eye contact, rinse the eyes with water for a sufficient period of time and keep the eyelids open; consult an ophthalmologist immediately.

Protect the uninjured eye.

After ingestion:

Vomit only on the advice of a doctor.

After inhalation:

In case of inhalation, consult a doctor immediately and show him the package or label.

4.2. Most important symptoms and effects, both acute and delayed

Contact a poison control centre.

4.3. Indications for immediate medical help or special treatment

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In the event of an accident or if you feel unwell, consult a doctor immediately (show the operating instructions or safety data sheet if possible).

SECTION 5: Fire-fighting measures

5.1. Extinguishing

media Suitable

extinguishing media:

In case of fire: Use CO₂, foam, chemical powder for extinguishing.

Extinguishing agents that must not be used for safety reasons: No special restrictions.

5.2. Special hazards arising from the substance or mixture

The mixture may release toxic or highly toxic gases during combustion. Do not inhale smoke. Do not inhale the explosion or combustion gases. A dense smoke is produced by the combustion.

5.3. Advice for firefighters Use suitable

breathing apparatus.

Collect the contaminated extinguishing water separately. Do not dispose of it in the sewage system. If possible within the framework of safety, remove undamaged containers from the immediate danger zone.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment.

Remove all sources of ignition.

Wear respiratory equipment when exposed to vapours, dusts or aerosols. Provide adequate ventilation.

Move people to a safe place. Use appropriate respiratory protection.

Observe the protective measures listed in points 7 and 8.

6.2. Environmental protection measures

Prevent penetration into the soil/subsoil. Prevent run-off into groundwater or sewage system.

Collect and dispose of the contaminated wash water.

In case of gas leakage or entry into watercourses, soil or sewage system, inform the competent authorities.

Suitable material for collection: absorbent or organic materials, sand Eliminate all open flames and possible sources of ignition. Do not smoke.

6.3. Methods and material for retention and cleaning

Collect spilled material with spark protection equipment. Put on mask and protective clothing and collect product quickly.

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Collect product for recycling or, if possible, disposal. If necessary, soak up with non-polluting material.

After collection, rinse affected area and material with water.

6.4. Reference to other sections

See also sections 8 and 13

SECTION 7: Handling and storage

7.1. Protective measures for safe handling

Keep away from open flames and ignition sparks. Avoid electrostatic charge. Place containers on the ground during decanting and wear antistatic clothing and shoes.

Avoid contact with skin and eyes and inhalation of vapours. Exercise utmost caution when handling and opening the container. Do not use empty containers until they have been cleaned.

Before decanting, ensure that there are no residues of incompatible substances in the containers.

Contaminated clothing must be changed before entering dining areas.

Do not eat or drink while working. Do not smoke during work.

Refer to section 8 for recommended protective equipment.

7.2. Conditions for safe storage taking into account incompatibilities

Store below 30 °C. Keep away from open flames and heat sources. Do not expose to direct sunlight. Keep away from food, drinks and animal food.

Incompatible materials:

No specific one.

Details of the storage facilities:

Cool and sufficiently ventilated.

Electrical system in safety design.

7.3. Specific end uses

No further recommendations. Consult point 1.2.

SECTION 8: Exposure controls/personal protective equipment

8.1. Parameters to be monitored

Styrene - CAS: 100-42-5

12_SIRCA - LTE: 86 mg/m³, 20 ppm - Remarks: - KTV : 4 - Opomba : Y, BAT

ACGIH - Remarks: Biological limit value: 0.2 mg/l . Champion: Venous blood at the end of the work shift. Biological

indicator: styrene

ACGIH - Remarks: Biological limit value: 400 mg/g creatinina.

ACGIH - LTE: 85.2 mg/m³, 20 ppm - STE: 170.4 mg/m³, 40 ppm - Remarks: - A4

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Styrene - CAS: 100-42-5

Worker exposure: 289 mg/m³ - Exposure: Man - Inhalation - Frequency: Short-term, systemic effects
Workers Industrial: 306 mg/m³ - Exposure: Man - Inhalation - Frequency: Short-term, local effects
Worker Occupational: 406 bw - Exposure: Man - dermal - Frequency: Long-term, systemic effects
Worker exposure: 85 mg/m³ - Exposure: Man - Inhalation - Frequency: Long-term, systemic effects
Consumer: 2.1 bw - Exposure: Man - Oral - Frequency: Long-term, systemic effects
Consumer: 174.25 mg/m³ - Exposure: Man - Inhalation - Frequency: Short-term, systemic effects
Consumer: 182.75 mg/m³ - Exposure: Man - Inhalation - Frequency: Short-term, local effects
Consumer: 343 bw - Exposure: Man - dermal - Frequency: Long-term, systemic effects.
Consumer: 10.2 mg/m³ - Exposure: Man - Inhalation - Frequency: Long-term, systemic effects

Cobalt bis(2-ethylhexanoate) - CAS: 136-52-7

Workers Industry: 0.235 mg/m³ - Exposure: Man - Inhalation - Frequency: Long-term, systemic effects

Styrene - CAS: 100-42-5

Target: Fresh water - Value: 0.028 mg/l
Target: Freshwater sediments - value: 0.614 mg/kg
Target: Seawater sediments - value: 0.0614 mg/kg
Target: Soil (agriculture) - value: 0.2 mg/kg
Target: Seawater - value: 0.0028 mg/l

Cobalt bis(2-ethylhexanoate) - CAS: 136-52-7

Target: STP - Value: 0.37 mg/l
Target: Fresh water - value: 0.00051 mg/l
Target: Seawater - value: 0.00236 mg/l
Target: Freshwater sediments - value: 9.5 mg/kg
Target: Seawater sediments - value: 9.5 mg/kg
Target: Soil (agriculture) - value: 7.9 mg/kg

8.2. Exposure controls Eye protection:

Eye protection must be worn. For example: closed safety visor, goggles with side protection. Do not use lenses.

Skin protection:

Wear clothing that guarantees complete protection of the skin, e.g. made of cotton, rubber, PVC or Viton.

Hand protection:

Due to the synergistic effect of the substances contained, no substance resistant to this combination can be specified.
become.

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Multi-layer protective gloves may be used for mixtures of substances.

For the substances specified in point 3 of this technical data, always observe the instructions provided by the manufacturer of the

Protective gloves specified degree of protection and the permeation rate

Respiratory protection:

Use appropriate respiratory protection, e.g. A2 or A2P2 or A2P3. Heat risks:

Not known

Environmental exposure controls:

Not known

Appropriate technical measures :

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties Appearance and colour:

Liquid	
Odour:	characteristic
Odour threshold:	N.A.
pH:	N.A.
Melting point/freezing point:	< 1° C
Lower boiling point and boiling interval:	> 55° C
Flammability Solid/Gas:	N.A.
Upper/lower flash or explosion point:	N.A. Vapour
density:	N.A.
Flash point:	23°C ≤ Fp ≤ 60°C
Evaporation rate:	N.A.
Vapour pressure:	N.A.
Density number:	1.100 Kg/l a 20°C
Viscosity	700-1000mPaxsec
Solubility in water:	N.A.
Solubility in oil:	N.A.
Partition coefficient (n-octanol/water):	N.A.
Auto-ignition temperature:	> 250°
C	
Disintegration temperature:	N.A.
Explosion limits:	N.A.
Burning capacity:	N.A.

9.2. Other information

Miscibility:	N.A.
Fat solubility:	N.A.
Conductivity:	N.A.
Typical properties of the substance groups	N.A.

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability Stable

under normal conditions

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10.3. Possibility of hazardous reactions

No dangerous reaction when stored and used correctly

10.4. Conditions to avoid Avoid

electrostatic charge.

The vapours may form explosive mixtures in combination with air.

10.5. Incompatible materials

Avoid any contact with flammable substances: Fire hazard.

10.6. Hazardous decomposition

products None.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information on the mixture:
N.A.

Toxicological information on the main components of the mixture:

Styrene - CAS: 100-42-5

a) Acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat = 11.8 mg/l - Duration: 4h

Test: LD50 - Route: Oral - Species: Rat = 2650 mg/kg

Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg

Cobalt bis(2-ethylhexanoate) - CAS: 136-52-7

a) Acute toxicity:

Test: LD50 - Route: Skin - Species: Rabbit > 5 g/kg

Test: LC50 - Route: Inhalable gas - Species: Rat = 5000 ppm - Duration: 4h Test:

LD50 - Route: Oral - Species: Mouse = 2119 mg/kg

Test: LD50 - Route: Oral - Species: Rat = 4300 mg/kg

SECTION 12: Environmental information

12.1 Toxicity

Use in accordance with GLP, do not leave lying around.

Styrene - CAS: 100-42-5

a) Acute aquatic toxicity:

Endpoint: LC50 - species: fish = 4.02 mg/l - Duration / h: 96

Endpoint: EC50 - species: algae = 4.9 mg/l - Duration / h: 72

Endpoint: EC50 - species: daphnia = 4.7 mg/l - Duration / h: 48

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SECTION 13: Disposal instructions

13.1 Waste treatment processes

Recycle if possible. Dispose of in authorised landfills or incinerators. Proceed in accordance with applicable local and national regulations.

Where possible, refer to the following standards: 91/156/EEC, 91/689/EEC, 94/62/EC and subsequent amendments.

SECTION 14: Transport information

14.1 UN number

ADR-UN number:	1866
IATA UN number:	1866
IMDG-UN number:	1866

14.2. UN proper shipping name

ADR Shipping Name:	Resin solution, flammable
IATA Shipping Name:	Resin solution, flammable
IMDG Shipping Name:	Resin solution, flammable

14.3. Transport hazard classes

ADR road transport:	3
ADR label:	3
ADR - Hazard number:	33
IATA Class:	3
IATA label:	3
IMDG Class:	3

14.4. Packing group

ADR packing group:	III
IATA Packing Group:	III
IMDG packing group:	III

14.5. Environmental hazards

14.6. Special precautions for user ADR tunnel restriction

code:2 (D/E)

IATA Passenger Air Freight:	353
IATA Cargo Air Freight:	364
IMDG technical name:	Resine, flammable liquid
IMDG-EMS:	F-E , S-E

14.7. Carriage in bulk in accordance with Annex II of the MARPOL Convention and the IBC Code

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No

SECTION 15: Legislation

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

Directive 98/24/EC (Protection of the health and safety of workers from the risks related to chemical agents at work)

Directive 2000/39/EC (indicative occupational exposure limit values) Regulation (EC) No 1907/2006 (REACH) Regulation (EC) No 1272/2008 (CLP)

Regulation (EC) No 790/2009 (1st ATP CLP) and (EU) No 758/2013 Regulation (EU) 2015/830

Regulation (EU) No 286/2011 (2nd ATP CLP) Regulation (EU) No 618/2012 (3rd ATP CLP) Regulation (EU) No 487/2013 (4th ATP CLP) Regulation (EU) No 944/2013 (5th ATP CLP) Regulation (EU) No 605/2014 (6th ATP CLP)

Restrictions on the product or ingredients according to Annex XVII of Regulation (EC) 1907/2006 (REACH) and subsequent amendments:

None

Where possible, refer to the following standards:

EEC Directive 2003/105/EEC ('Activities likely to cause dangerous accidents') and subsequent amendments.

Regulation (EC) No 648/2004 (detergents).

Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work.

WGK3 - Very hazardous to water (Verwaltungsvorschrift wassergefährdende Stoffe; VwVwS) of 17 May, 1999

Ministerial Decree 1999/13/EC (FOV Directive)

Directive 1999/13/CE

Total volatile organic compounds (typical value): 40 % Total organic carbon content (typical value): 80-85 % Total dry residue : 55-60 %.

15.2. Chemical Safety

Assessment No

SECTION 16: Other information

Text of the sentences from point 3:

H226 Flammable liquid and vapour.

H361d Suspected of damaging the unborn child. H332 Harmful by inhalation.

H372 Causes damage to organs through prolonged or repeated exposure. H315 Causes skin irritation.

H319 Causes severe eye irritation.

H361f Suspected of damaging fertility.

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H400	Very toxic to aquatic organisms.
H317	May cause allergic skin reactions.
H412	Harmful to aquatic life with long lasting effects. H225 Highly flammable liquid and vapour.
H336	May cause drowsiness and dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking. H304 May be fatal if swallowed and enters airways. H335 May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure. H312 Harmful in contact with skin.
H351	Suspected of causing cancer.
H341	Suspected of causing genetic defects. H318 Causes serious eye damage.
H302	Harmful if swallowed. Modification of

paragraphs since last revision:

2. POSSIBLE HAZARDS

SECTION 3: Composition/information on ingredients SECTION
5: Fire-fighting measures SECTION 7: Handling and storage
SECTION 15: Legislation

These documents were written by a professional with appropriate training. Main literature:
ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,
Commission of the European Communities
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand
Reinold
ACGIH - Threshold Limit Values - 2004 Edition
FOR COMMERCIAL USERS ONLY.

The above information is based on our current knowledge. They apply only to the specified product
and do not constitute

does not constitute a guarantee of properties.

It is the responsibility of the user to check the competence and completeness of this information for
their specific application.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Packaging and Labelling
DNEL:	Derived no-effect level (DNEL)
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances.
GHS:	Globally Harmonised System of Classification and Labelling of Chemicals. IATA: International Air Transport Association (IATA).
IATA DGR:	Regulations concerning the carriage of dangerous goods of the International Air Transport Association (IATA).
ICAO:	International Civil Aviation Organization (ICAO).
ICAO-TI:	International Civil Aviation Organisation (ICAO) Technical Instructions IMDG: Dangerous goods labelling for dangerous goods in maritime transport (IMDG Code) INCI: International Nomenclature for Cosmetic Ingredients (INCI)
KSt:	Explosion coefficient.
LC50:	Lethal concentration for 50 percent of the test population. LD50: Lethal dose for 50 per cent of the test population.
LTE:	Long-term exposure.

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PNEC:	Estimated non-effect concentration (PNEC value)
RID:	Regulation concerning the International Carriage of Dangerous Goods by Rail
STE:	Short-term exposure.
STEL:	Limit value for short-term exposure
STOT:	Target organ toxicity
TLV:	Occupational exposure limit
TWATLV:	Threshold value for time-averaged 8-hour Zag (TWATLV) (ACGIH standard).
WGK:	Water hazard class
N.A.:	N.A.
N.D.:	