

SAFETY DATA SHEET

Revision date: 22.03.2023

VERSION: 3.0/EN

SAFETY DATA SHEET
Ansercoll 5-10-15-20 adhesive

prepared in accordance with Commission Regulation (EU) No 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier**

Ansercoll 5-10-15-20 adhesive

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

Identified uses: Assembly adhesive

SU 3 Industrial uses

SU 22 Professional uses

Uses advised against: None

1.3 Details of the supplier of the safety data sheet

Zakłady Chemiczne „ANSER” Sp. z o.o.

ul. Dźwigowa 3/2, 02-437 Warszawa, Poland

Tel.: +48 46 856 73 40 fax: +48 46 856 73 50

email: a.zagajewska@anser.pl

1.4 Emergency telephone number

Emergency telephone number in Poland (available 8:00 a.m. – 4:00 p.m.): +48 46 856 73 40

112 (emergency number), 998 (fire brigade), 999 (medical emergency)

SECTION 2: HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture**

Classification in accordance with Regulation (EC) No 1272/2008:

Hazards arising from physicochemical properties:

Flammable liquids, Hazard Category 2 [Flam. Liq. 2]

Highly flammable liquid and vapour (H225)

Hazards to health

Skin irritation, Hazard Category 2 [Skin Irrit. 2]

Causes skin irritation (H315)

Skin sensitisation, Hazard Category 1 [Skin Sens. 1]

May cause an allergic skin reaction (H317)

May cause damage to organs through prolonged or repeated exposure [STOT RE 2]

May cause damage to organs through prolonged or repeated exposure (H373)

Reproductive toxicity, Hazard Category 2 [Repr. 2]

Suspected of damaging fertility or the unborn child (H361)

Specific target organ toxicity — single exposure, Hazard Category 3, narcotic effects [STOT SE 3]

May cause drowsiness or dizziness (H336)

Aspiration hazard, Hazard Category 1 [Asp. Tox. 1]

May be fatal if swallowed and enters airways (H304)

Hazards to the environment:

Hazardous to the aquatic environment — chronic hazard, Category 2 [Aquatic Chronic 2]

Toxic to aquatic life with long lasting effects (H411)

2.2 Label elements

SAFETY DATA SHEET 	Revision date: 22.03.2023 VERSION: 3.0/EN
SAFETY DATA SHEET Ansercoll 5-10-15-20 adhesive	

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Pictogram

GHS02 GHS08 GHS07 GHS09

Signal word: DANGER

Names of hazardous constituents on label:

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane; Colophony; Reaction mass of ethylbenzene and m-xylene and p-xylene

Hazard statement(s) (H)

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H317 May cause an allergic skin reaction.

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

H361 Suspected of damaging fertility or the unborn child.

H411 Toxic to aquatic life with long lasting effects.

H304 May be fatal if swallowed and enters airways.

Precautionary statement(s) (P)

General:

P102 Keep out of reach of children.

P201 Obtain special instructions before use.

Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P270 Do not eat, drink or smoke when using this product.

P262 Do not get in eyes, on skin, or on clothing.

P264 Wash hands thoroughly after handling.

P273 Avoid release to the environment.

Response:

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor.

P331 Do NOT induce vomiting.

Storage:

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Disposal:

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

Supplemental hazard information:

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3 Other hazards

Vapours form explosive mixtures with air. Vapours are heavier than air, accumulate near the ground and in the lower parts of rooms. The product and its vapours may be ignited by an open flame, sparks, or hot surfaces.

The substances contained in the product do not meet the PBT or vPvB criteria in accordance with Annex XIII to the REACH Regulation.

PBT substances (persistent, bioaccumulative and toxic substances)

vPvB substances (substances that are very persistent and very bioaccumulative)

The product does not contain substances included in the list drawn up in accordance with Article 59(1) as having endocrine-disrupting properties, or substances identified as having endocrine-disrupting properties in accordance with the criteria set out

SAFETY DATA SHEET 	Revision date: 22.03.2023 VERSION: 3.0/EN
SAFETY DATA SHEET Ansercoll 5-10-15-20 adhesive	

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in Commission Delegated Regulation (EU) 2017/2100 (3) or Commission Regulation (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Not applicable

3.2 Mixture

Identification numbers	Chemical name	wt. %	Pictogram, signal word codes	Hazard class and category codes	H-statement codes
CAS: — EC (EINECS): 924-168-8 Index No: — Own registration No: 01-2119475133-43-xxxx	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane [1,2,3]	25<x<30	GHS02 GHS08 GHS05 GHS09 Dgr	Flam. Liq. 3 Skin Irrit. 2 Asp. Tox. 1 Repr. 2 STOT SE 3 STOT RE 2 Aquatic Chronic 2	H225 H315 H304 H361 H336 H373 H411
CAS: 8050-09-7 EC (EINECS): 232-475-7 Index No: 650-015-00-7 Own registration No: 01-2119480418-32-xxxx	Colophony	8<X<12	GHS07 Wng	Skin Sens. 1	H317
CAS: — EC (EINECS): 905-562-9 Index No: — Own registration No: 01-2119555267-33-xxxx	Reaction mass of ethylbenzene and m-xylene and p-xylene [4]	1<X<2	GHS02 GHS07 GHS08 Dgr	Flam. Liq. 3 Acute Tox. 4 Acute Tox. 4 Skin Irrit. 2 Eye Irrit. 2 STOT SE 3 STOT RE 2 Asp. Tox. 1 Specific concentration limit: STOT RE 2 H373 ≥10%	H226 H332 H312 H315 H319 H335 H373 H304
CAS: 128-37-0 EC (EINECS): 204-881-4 Index No: 603-074-00-8 Own registration No: 01-2119565113-46-xxxx	2,6-di-tert-butyl-p-cresol	≤0.1	GHS09 Wng	Aquatic Acute 1 Aquatic Chronic 1	H400 H410

[1] Substance with a nationally established occupational exposure limit. See Section 8. [2] Substance with an EU-established occupational exposure limit. [3] Complex mixture of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. UVCB substance. Content of substance constituents: Benzene ≤10 ppm CAS: 71-43-2 Toluene ≤10 ppm CAS: 108-88-3 n-hexane 6-60% CAS: 110-54-3 Cyclohexane 2-11% CAS: 110-82-7

SAFETY DATA SHEET 	Revision date: 22.03.2023 VERSION: 3.0/EN
SAFETY DATA SHEET Ansercoll 5-10-15-20 adhesive	

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[4] UVCB substance. Content of substance constituents: m-xylene 46-60% CAS: 108-38-3 EC: 203-576-3 Index No: 601-022-00-9 p-xylene 22-29% CAS: 106-42-3 EC: 203-396-5 Index No: 601-022-00-9 Ethylbenzene 6-26% CAS: 100-41-4 EC: 202-849-4 Index No: 601-023-00-4 o-xylene 0.6-13% CAS: 95-47-6 EC: 202-422-2 Index No: 601-022-00-9

The full text of the H-statements is given in Section 16 of the Safety Data Sheet.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General recommendations: Symptoms of poisoning may appear after several hours; therefore, medical observation for at least 48 hours from the time of exposure is recommended. If any symptoms occur and persist after first aid has been administered in accordance with the recommendations below, seek medical advice immediately.

Inhalation: Remove or move the affected person away from the area of exposure, place them in a comfortable half-lying or sitting position, keep them calm, and protect them from loss of body heat. Call a doctor immediately.

Skin contact: Remove contaminated clothing and wash the skin thoroughly with lukewarm running water. Appropriate safety showers should be available at the workplace. NOTE: Remove contaminated/soaked clothing to a safe place away from heat and ignition sources.

Eye contact: Rinse with a large amount of cool water, preferably running water, for at least 15 minutes. Remove contact lenses. Avoid a strong stream of water because of the risk of mechanical damage to the cornea. If irritation persists, consult an ophthalmologist.

4.2 Most important symptoms and effects, both acute and delayed

Eye contact: At high vapour concentrations or with direct eye contact, temporary irritation, redness, tearing and burning may occur.

Skin contact: Contamination of the skin with a large amount of the product may cause redness, itching and inflammation. Repeated exposure may cause skin dryness or cracking. In sensitised persons, even small amounts of the product may cause an allergic reaction.

After inhalation: Inhalation of high concentrations of vapour may cause fatigue, weakness, drowsiness, nausea, headache and dizziness, sore throat. Repeated contact with the product's vapours may cause allergic reactions of the respiratory tract (swelling, hoarseness, a feeling of choking, coughing).

After swallowing: If swallowed or vomited, the product may directly enter the lungs and cause serious lung damage (aspiration pneumonia, pulmonary haemorrhage, pleural effusion).

Other effects of exposure: May cause damage to organs through prolonged or repeated exposure. Suspected of damaging fertility or the unborn child.

4.3 Indication of any immediate medical attention and special treatment needed

Show this safety data sheet or the label/packaging to the medical personnel providing assistance. Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media:

Foam, carbon dioxide, extinguishing powders, water — spray/fog jets.

Unsuitable extinguishing media:

Do not use a solid water jet.

5.2 Special hazards arising from the substance or mixture

SAFETY DATA SHEET 	Revision date: 22.03.2023 VERSION: 3.0/EN
SAFETY DATA SHEET Ansercoll 5-10-15-20 adhesive	

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Highly flammable liquid and vapour. Sensitive to electrostatic discharge. Vapours are heavier than air, spread near the ground, accumulate in the lower parts of rooms and in depressions in the terrain; they form explosive mixtures with air. Toxic combustion products, including carbon oxides, phosphorus oxides and other unidentified thermal decomposition products, may be formed during combustion. Do not inhale the fumes, as they may be harmful.

5.3 Advice for firefighters

Follow the procedures applicable for extinguishing chemical fires. In the event of a fire involving large quantities of the product, remove/evacuate all bystanders from the hazard area. Extinguish the fire from a safe distance, from behind shields, or using unmanned monitors. Call the emergency services. Cool closed containers exposed to fire or high temperature with spray water from a safe distance (risk of explosion); if possible and safe, remove them from the hazard area. After removal from the hazard area, continue cooling until completely cooled. Prevent firefighting water from entering the sewage system and water bodies. Dispose of resulting effluent and fire residues in accordance with applicable regulations. Persons taking part in firefighting should be trained, equipped with self-contained breathing apparatus and full protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

Restrict access of bystanders to the accident area until appropriate clean-up operations are complete. In the event of large releases, isolate the hazardous area. Do not inhale vapours. Avoid contact with skin and eyes. Use personal protective equipment. Ensure adequate ventilation.

For emergency responders:

Ensure that clean-up of the accident and its effects is carried out only by trained personnel. Use personal protective equipment. Remove ignition sources. The liquid is flammable. Vapours are heavier than air and may spread along the floor to distant ignition sources, creating a flashback hazard. Use protective gloves and protective clothing in the event of a risk of exposure and a large release. Ensure enhanced ventilation of the room where the accidental release occurred.

6.2 Environmental precautions

Prevent the product from entering groundwater, water bodies and watercourses, or the sewage system. If necessary, call the appropriate emergency services.

6.3 Methods and material for containment and cleaning up

Dilute vapours with spray water; if possible, stop the leak (shut off the flow of liquid, seal it, place damaged packaging in sealed protective packaging); for large spills, dike the area where the liquid is accumulating and pump out the collected liquid; cover small amounts of spilled liquid with non-combustible absorbent material, collect it in a closable container; rinse the contaminated surface with water and collect and dispose of the rinsings as waste.

6.4 Reference to other sections

Personal protective equipment — see Section 8. Dispose of in accordance with the recommendations given in Section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Work in accordance with health and safety rules. Avoid contact with eyes and skin. Avoid inhaling the product's vapours. Wash hands before breaks and after finishing work. Keep unused containers tightly closed. Ensure proper ventilation of the room where the product is stored and used. Remove ignition sources, do not smoke tobacco. Use personal protective equipment. Use as intended.

7.2 Conditions for safe storage, including any incompatibilities

SAFETY DATA SHEET 	Revision date: 22.03.2023 VERSION: 3.0/EN
SAFETY DATA SHEET Ansercoll 5-10-15-20 adhesive	

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Store the product in a cool, dry room in sealed, vented containers. Keep away from heat sources, fire, spark-generating equipment or other ignition sources. Do not store near oxidising substances. Do not store in PVC packaging. Protect from access of air, as there is a risk of peroxide formation. Keep out of reach of children.

7.3 Specific end use(s)

See Section 1.2 of the SDS.

No information on other uses.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

National occupational exposure limits (Poland):

Substance	Limit type	Value
Benzene [71-43-2]	NDS (TWA)	1.6 mg/m ³
n-hexane [110-54-3]	NDS (TWA)	72 mg/m ³
White spirit [64742-49-0]	NDS (TWA) / NDSch (STEL)	500 mg/m ³ / 1500 mg/m ³
Lacquer solvent naphtha [8052-41-3]	NDS (TWA) / NDSch (STEL)	300 mg/m ³ / 900 mg/m ³
Xylene — mixture of isomers: 1,2-; 1,3-; 1,4- [95-47-6, 108-38-3, 106-42-3, 1330-20-7]	NDS (TWA) / NDSch (STEL)	100 mg/m ³ / 200 mg/m ³
Ethylbenzene [100-41-4]	NDS (TWA) / NDSch (STEL)	200 mg/m ³ / 400 mg/m ³

Legal basis: Regulation of the Polish Minister of Family, Labour and Social Policy of 12 June 2018 on the maximum admissible concentrations and intensities of factors harmful to health in the working environment (Journal of Laws 2018.1286, as amended [Journal of Laws 2020.61]); Regulation of the Minister of Development, Labour and Technology of 18 February 2021 amending that regulation (Journal of Laws 2021, item 325); Regulation of the Minister of Health of 2 February 2011 on testing and measurement of factors harmful to health in the working environment (Journal of Laws No. 33, item 166, 2011, as amended by Journal of Laws 2022.2662).

EU

Substance	TWA (8h)	STEL (15 min)
n-hexane [110-54-3]	72 mg/m ³ / 20 ppm	—
Benzene [71-43-2]	3.25 mg/m ³ / 1 ppm	—
Xylene [1330-20-7]	221 mg/m ³ / 50 ppm	442 mg/m ³ / 100 ppm
Ethylbenzene [100-41-4]	442 mg/m ³ / 100 ppm	884 mg/m ³ / 200 ppm

Legal basis: 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; Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values; Directive 2004/37/EC of the European Parliament and of the Council of 29 April 2004 on the protection of workers from the risks related to exposure to carcinogens or mutagens at work; Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values and amending Directives 91/322/EEC and 2000/39/EC; Commission Directive 2009/161/EU of 17 December 2009 establishing a third list of indicative occupational exposure limit values; Commission Directive (EU) 2017/164 of 31 January 2017 establishing a fourth list of indicative occupational exposure limit values and amending Directives 91/322/EEC, 2000/39/EC and 2009/161/EU.

SAFETY DATA SHEET 	Revision date: 22.03.2023 VERSION: 3.0/EN
SAFETY DATA SHEET Ansercoll 5-10-15-20 adhesive	

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DNEL and PNEC values:

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane [EC: 924-168-8]

Route/parameter	Value
DNEL worker — inhalation, chronic toxicity	145 mg/m ³
DNEL worker — dermal, chronic toxicity	21 mg/kg/24h
DNEL consumer — inhalation, chronic toxicity	27 mg/m ³
DNEL consumer — oral, chronic toxicity	8 mg/kg/24h
DNEL consumer — dermal, chronic toxicity	9 mg/kg/24h
PNEC — water, sediment, soil, sewage treatment plant	Not applicable

Xylene, mixture of isomers

Route/parameter	Value
DNEL worker — dermal (systemic, chronic)	180 mg/kg
DNEL worker — respiratory (systemic, acute)	289 mg/m ³
DNEL worker — respiratory (local, acute)	289 mg/m ³
DNEL worker — respiratory (systemic, chronic)	77 mg/m ³
DNEL worker — respiratory (local, chronic)	77 mg/m ³
DNEL consumer — respiratory (systemic, acute)	174 mg/m ³
DNEL consumer — respiratory (systemic, chronic)	14.8 mg/m ³
DNEL consumer — dermal (systemic, chronic)	108 mg/kg
PNEC — fresh water	0.327 mg/l
PNEC — marine water	0.327 mg/l
PNEC — sewage treatment plant (STP)	6.58 mg/l
PNEC — freshwater sediment	12.46 mg/kg
PNEC — marine sediment	12.46 mg/kg
PNEC — soil	2.31 mg/kg

Recommended monitoring procedures: Procedures for monitoring the concentrations of hazardous components in air and procedures for controlling air quality at the workplace should be applied — where available and justified for the given workstation — in accordance with the relevant Polish or European Standards, taking into account the conditions at the place of exposure and a measurement methodology appropriate to the working conditions. The mode, type and frequency of tests and measurements should meet the requirements set out in the Regulation of the Minister of Health of 2 February 2011 (Journal of Laws 2011, No. 33, item 166).

8.2 Exposure controls

8.2.1 Appropriate engineering controls

During the production process, local exhaust ventilation and general room ventilation are necessary. At some workstations, local exhaust ventilation may be necessary. Extraction systems should remove air from the source of vapour or aerosol generation and warn persons working in that location. Electrical and lighting installations of explosion-proof design. Ground all equipment (including storage tanks) used to work with the product. Use non-sparking tools.

SAFETY DATA SHEET 	Revision date: 22.03.2023 VERSION: 3.0/EN
SAFETY DATA SHEET Ansercoll 5-10-15-20 adhesive	

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8.2.2 Individual protection measures, such as personal protective equipment

Where the concentration of hazardous substances is established and known, the selection of personal protective equipment should take into account the concentration of the substance at the given workstation, exposure time, tasks performed by the worker, and the recommendations given by the manufacturer of the protective equipment. In an emergency situation or when the concentration of the substance at the workstation is not known, use body-isolating personal protective equipment (a gas-tight suit combined with isolating respiratory protective equipment).

Respiratory protection:

Not necessary under normal conditions with sufficient ventilation. Use in well-ventilated rooms. For work in confined spaces / insufficient oxygen content in the air, large uncontrolled emissions, and in all circumstances where a mask with a filter does not provide sufficient protection, use isolating respiratory protective equipment.

Hands and skin:

Wear impermeable protective gloves resistant to the product (e.g. neoprene, nitrile). For short-term contact, use protective gloves with a protection level of 2 or higher (breakthrough time > 30 min). For prolonged contact, use protective gloves with a protection level of 6 (breakthrough time > 480 min). Use protective clothing. The material from which the gloves are made must be impermeable and resistant to the product. The resistance of glove materials must be verified before use. Information on the permeation time of the substance through the gloves should be obtained from the glove manufacturer, and that time must be observed. Regular replacement of gloves is recommended, with immediate replacement if any signs of wear, damage (tears, punctures) or changes in appearance (colour, elasticity, shape) occur.

Eyes:

It is recommended to use protective goggles when pouring the mixture. It is recommended to equip the workplace with an eyewash station.

Occupational hygiene: General industrial hygiene rules apply. Remove contaminated clothing after finishing work. Wash hands and face before breaks. Wash the whole body thoroughly after work. Do not eat, drink or smoke while working.

8.2.3 Environmental exposure controls

Prevent entry into the municipal water and sewage system and watercourses. Any emissions from ventilation systems and process equipment should be checked to determine their compliance with environmental protection legal requirements.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state: Liquid

Colour: Beige

Odour: Neutral, faint

Melting/freezing point: [Hydrocarbons, C6-C7] <-20°C [Colophony] 75-81°C

Boiling point and boiling range: No data available

Flammability: Flammable product

Lower and upper explosive limit: No data available

Flash point: <23°C

Auto-ignition temperature [gases, liquids]: No data available

Decomposition temperature: No data available

pH: No data available

Kinematic viscosity [mm²/s]: No data available

Solubility: Insoluble in water, soluble in hydrocarbons

Partition coefficient: n-octanol/water: No data available

Vapour pressure: approx. 43 kPa at 40°C [Hydrocarbons, C6-C7]

SAFETY DATA SHEET 	Revision date: 22.03.2023 VERSION: 3.0/EN
SAFETY DATA SHEET Ansercoll 5-10-15-20 adhesive	

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Relative density: 1.2 g/cm³ at 20°C

Relative vapour density: No data available

Particle characteristics [solids]: Not applicable [liquid]

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Explosive properties: Not applicable

Oxidising properties: Not applicable.

9.2.2 Other safety characteristics

No results of additional testing.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Under normal conditions of use and storage, the product is stable.

10.2 Chemical stability

Under normal conditions of use and storage, the product is stable.

10.3 Possibility of hazardous reactions

None known.

10.4 Conditions to avoid

High temperatures, open flame and other ignition sources.

10.5 Incompatible materials

May react with strong oxidisers.

10.6 Hazardous decomposition products

Depending on the decomposition conditions, complex mixtures of chemical substances may be released, including carbon dioxide (CO₂), carbon monoxide and other organic compounds. See Section 5 for more information.

SECTION 11: TOXICOLOGICAL INFORMATION

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

Acute toxicity of the mixture's components

Hydrocarbons, C6-C7

LD50 (oral, rat) > 5840 mg/kg

LC50 (inhalation, rat, 4h) > 25 200 mg/m³

LD50 (dermal, rat) > 2920 mg/kg

Xylene, mixture of isomers

LD50 (dermal, rabbit) 12126 mg/kg

LD50 (oral, rat) 3523 mg/kg

LC50 (inhalation, rat) 27124 mg/m³/4h

Estimated acute toxicity of the mixture

ATE MIX oral (mg/kg): >2,000. Based on available data, the classification criteria are not met.

ATE MIX dermal (mg/kg): >2,000. Based on available data, the classification criteria are not met.

ATE MIX inhalation (mg/l/4h): >20. Based on available data, the classification criteria are not met.

SAFETY DATA SHEET 	Revision date: 22.03.2023 VERSION: 3.0/EN
SAFETY DATA SHEET Ansercoll 5-10-15-20 adhesive	

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The acute toxicity of the mixture (ATEmix) was calculated using the relevant conversion factor set out in Table 3.1.2 of Annex I to the CLP Regulation, as amended.

Skin corrosion/irritation:

Causes skin irritation.

Serious eye damage/eye irritation:

Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation:

May cause an allergic skin reaction.

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:

Suspected of damaging fertility or the unborn child.

STOT — single exposure:

May cause drowsiness or dizziness.

STOT — repeated exposure:

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard:

May be fatal if swallowed and enters airways.

Information on likely routes of exposure

Eye contact: At high vapour concentrations or with direct eye contact, temporary irritation, redness, tearing and burning may occur.

Skin contact: Contamination of the skin with a large amount of the product may cause redness, itching and inflammation.

Repeated exposure may cause skin dryness or cracking. In sensitised persons, even small amounts of the product may cause an allergic reaction.

After inhalation: Inhalation of high concentrations of vapour may cause fatigue, weakness, drowsiness, nausea, headache and dizziness, sore throat. Repeated contact with the product's vapours may cause allergic reactions of the respiratory tract (swelling, hoarseness, a feeling of choking, coughing).

After swallowing: If swallowed or vomited, the product may directly enter the lungs and cause serious lung damage (aspiration pneumonia, pulmonary haemorrhage, pleural effusion).

11.2 Information on other hazards

Endocrine-disrupting properties:

The product has no effect on the endocrine system according to the assessment criteria set out in Regulations (EC) No 1907/2006, (EU) 2017/2100, (EU) 2018/605.

Other information:

None known.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Acute toxicity of the mixture's components

Hydrocarbons, C6-C7

EL50: 3–22 mg/l — acute toxicity study on freshwater invertebrates; *Daphnia magna*, 48h

SAFETY DATA SHEET 	Revision date: 22.03.2023 VERSION: 3.0/EN
SAFETY DATA SHEET Ansercoll 5-10-15-20 adhesive	

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NOEC: 0.17 mg/l — chronic toxicity study on invertebrates; *Daphnia magna*, 21 days

EL50: 35.29 mg/l — acute toxicity study on freshwater algae; *Tetrahymena pyriformis*, 48h

LL50: 11.4 mg/l — acute toxicity study on freshwater fish; *Oncorhynchus mykiss*, 96h

NOEL: 2.028 mg/l — chronic toxicity study on fish; *Oncorhynchus mykiss*, 28 days

Xylene, mixture of isomers

LC50 >1.3 mg/l, fish

Toxicity of the mixture

Toxic to aquatic life with long lasting effects.

To minimise long-term global pollution, consider:

- Reducing the use of single-use products and packaging.
- Participating in recycling activities.
- Preventing the product from entering water, sewage or soil.

12.2 Persistence and degradability

No data available for the mixture. Data for the constituents are given below:

Xylene, mixture of isomers — Biochemical Oxygen Demand: BOD: 57–80 gO₂/g, biodegradable.

12.3 Bioaccumulative potential

No data available for the mixture. Data for the constituents are given below:

Xylene, mixture of isomers — LogKow: 3.12–3.2. Not bioaccumulative.

12.4 Mobility in soil

The mobility of substances depends on their hydrophilic and hydrophobic properties as well as on the abiotic and biotic conditions of the soil, including its structure, climatic conditions, season (in Poland, a temperate transitional climate) and soil organisms, mainly bacteria, fungi, algae and invertebrates.

12.5 Results of PBT and vPvB assessment

Does not meet the PBT and vPvB criteria.

12.6 Endocrine disrupting properties

The product does not contain constituents included in the list drawn up in accordance with Article 59(1) as having endocrine-disrupting properties, or constituents identified as having endocrine-disrupting properties in accordance with the criteria set out in Regulation (EU) 2017/2100 or Regulation (EU) 2018/605, at a concentration equal to or greater than 0.1%.

12.7 Other adverse effects

Other adverse effects: the mixture may cause a change in the pH of water. The mixture is not classified as hazardous to the ozone layer. The possibility of other adverse effects of the individual constituents of the mixture on the environment should be considered (e.g. the ability to disrupt the endocrine system, contribution to global warming). Release of large quantities of the product into water causes a drop in pH.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

If possible, recover the waste. Prevent contamination of surface water and groundwater. Under Polish law, the collection, disposal, recovery or recycling of waste may only be carried out by companies holding the appropriate permits, and waste may only be handed over to such companies. In case of doubt, agree the method of waste handling with the local Environmental Protection Inspectorate.

Disposal of the mixture: Consider the possibility of recovery. The waste code should be assigned at the place of generation.

Waste code: 08 04 09* — Waste adhesives and sealants containing organic solvents or other hazardous substances.

Disposal of packaging: Recovery (recycling) or disposal of packaging waste should be carried out in accordance with applicable regulations. Reusable packaging, after cleaning, should be reused.

SAFETY DATA SHEET 	Revision date: 22.03.2023 VERSION: 3.0/EN
SAFETY DATA SHEET Ansercoll 5-10-15-20 adhesive	

prepared in accordance with Commission Regulation (EU) No 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Waste code: 15 01 10* — Packaging containing residues of, or contaminated by, hazardous substances.

Legal basis: Act of 14 December 2012 on waste (Journal of Laws No. 0, item 21, consolidated text: Journal of Laws 2021, item 779) as amended by the Act of 17 November 2021 amending the Act on Waste and certain other acts (Journal of Laws 2021, item 2151); Act of 13 June 2013 on packaging and packaging waste management (Journal of Laws 2013, item 888, consolidated text: Journal of Laws 2020, item 1114, 2361, 2021, item 2151); Regulation of the Minister of Climate of 2 January 2020 on the waste catalogue (Journal of Laws 2020, item 10).

SECTION 14: TRANSPORT INFORMATION

The mixture is subject to regulations on the carriage of dangerous goods under ADR (road transport), RID (rail transport), ADN (inland waterway transport), IMDG (sea transport), ICAO/IATA (air transport). Provision 375 ADR/IMDG 2.10.2.7 When carried in single or combined packagings, if the single packagings or the inner packagings of combined packagings contain no more than 5 litres for liquids or 5 kg net for solids, they are not subject to any other ADR provisions, provided that the packagings meet the requirements set out in 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 of the ADR Agreement.

14.1 UN number or ID number

ADR/RID/IMDG/IATA: UN1133

14.2 UN proper shipping name

ADR/RID: ADHESIVES

IMDG/IATA: ADHESIVES

14.3 Transport hazard class(es)

ADR/RID/IMDG/IATA: 3

14.4 Packing group

ADR/RID/IMDG/IATA: II

14.5 Environmental hazards

The product is hazardous to the environment in accordance with the criteria of the UN Model Regulations. Additional entry in the transport document for packagings > 5 L: "ENVIRONMENTALLY HAZARDOUS" or "MARINE POLLUTANT / ENVIRONMENTALLY HAZARDOUS".

14.6 Special precautions for user

ADR

Tunnel restriction code: [D/E]

Transport category: 2

Limited quantities (3.4.6): 5L

Special provisions 640D

Packing instructions: P001 IBC02 R001; PP1

Special provisions for carriage — S2, S20

IMDG:

EmS Code F-E, S-D

Stowage: Category B

Limited quantities (3.4): 5L

Special provisions PP1

Packing instructions: P00; IBC02

IATA

IATA (Passenger)

Excepted quantities (IATA): E2

SAFETY DATA SHEET 	Revision date: 22.03.2023 VERSION: 3.0/EN
SAFETY DATA SHEET Ansercoll 5-10-15-20 adhesive	

prepared in accordance with Commission Regulation (EU) No 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Limited quantities (IATA): Y341

Limited quantities max. net quantity (IATA): 1L

Packing instructions (IATA): 353

Maximum net quantity (IATA): 5L

IATA (Cargo)

Packing instructions (IATA): 364

Maximum net quantity (IATA): 60L

Special provisions (IATA):

ERG code (IATA): 3L

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: REGULATORY INFORMATION

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

Restrictions in accordance with REACH, Annex XVII	Mixture: No. 3, 40; 75
Seveso Directive 2012/18/EU (Seveso III)	P5c Flammable liquids (Cat. 2, 3). Threshold quantity (in tonnes) for the lower-tier requirements: 5000, and for the upper-tier requirements: 50,000. E2 Hazardous to the aquatic environment, chronic category 2. Threshold quantity (in tonnes) for the lower-tier requirements: 200, and for the upper-tier requirements: 500.

Other regulations

- 1907/2006/EC Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.
- 1272/2008/EC Regulation of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
- 2020/878/EU Commission Regulation of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.
- 2008/98/EC Directive of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives, as amended.
- 94/62/EC Directive of the European Parliament and of the Council of 20 December 1994 on packaging and packaging waste, as amended.
- 2016/425/EU Regulation of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.
- Regulation of the Polish Minister of Health of 20 April 2012 on the labelling of packaging of hazardous substances and hazardous mixtures and certain mixtures (Journal of Laws 2012, No. 0, item 445). Consolidated text: Journal of Laws 2015, item 450.
- Regulation of the Polish Minister of Family, Labour and Social Policy of 12 June 2018 on the maximum admissible concentrations and intensities of factors harmful to health in the working environment (Journal of Laws 2018.1286 of 3 July 2018).
- Act of 25 February 2011 on chemical substances and their mixtures (consolidated text: Journal of Laws 2022, item 1816).

SAFETY DATA SHEET 	Revision date: 22.03.2023 VERSION: 3.0/EN
SAFETY DATA SHEET Ansercoll 5-10-15-20 adhesive	

prepared in accordance with Commission Regulation (EU) No 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

10. Act of 24 November 2017 amending the Act on Waste and certain other acts (Journal of Laws 2017, item 2422).

11. Act of 13 June 2013 on packaging and packaging waste management (consolidated text: Journal of Laws 2020, item 1114, as amended).

12. Act of 14 December 2012 on waste (consolidated text: Journal of Laws 2022, item 699, as amended).

13. Act on the carriage of dangerous goods of 19 August 2011 (Journal of Laws No. 227, item 1367). Consolidated text: Journal of Laws 2020, item 154, 875.

14. Government Declaration of 15 February 2021 on the entry into force of amendments to Annexes A and B to the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), done at Geneva on 30 September 1957 (Journal of Laws 2021, item 874).

15.2 Chemical safety assessment

The supplier has not carried out a chemical safety assessment. A chemical safety report is not required for the mixture.

SECTION 16: OTHER INFORMATION

Other sources of data:

IUCLID Data Bank (European Commission – European Chemicals Bureau).

ESIS – European Chemical Substances Information System (European Chemicals Bureau).

Safety data sheet prepared by: Małgorzata Krenke [Based on the supplier's safety data sheet]

Feed Reach Consulting; E-mail: biuro@frc.com.pl

The above information has been prepared based on currently available data characterising the product and the manufacturer's experience and knowledge in this field. The data contained in this Safety Data Sheet should be treated solely as an aid for safe handling in transport, distribution, use and storage. This Safety Data Sheet is not a certificate of product quality. The information contained in this Safety Data Sheet relates only to the named product and may not be valid or sufficient for this product used in combination with other materials or for other uses. The user of the product is obliged to comply with all applicable standards and regulations and bears responsibility arising from improper use of the information contained in this Safety Data Sheet or improper use of the product.

Classification and procedures used to classify the mixture in accordance with Regulation (EC) 1272/2008 [CLP]

Skin Irrit. 2	H315	calculation method
STOT SE 3	H336	calculation method
Flam. Liq. 2	H225	flash point
Asp. Tox. 1	H304	calculation method
Repr. 2	H361	calculation method
STOT RE 2	H373	calculation method
Aquatic Chronic 2	H411	calculation method
Skin Sens. 1	H317	calculation method

H-statements (indicating the type of hazard) used in Sections 2 and 3 of the Safety Data Sheet:

H304 May be fatal if swallowed and enters airways

Asp. Tox. 1 Aspiration hazard, Hazard Category 1

Dgr Danger

SAFETY DATA SHEET 	Revision date: 22.03.2023 VERSION: 3.0/EN
SAFETY DATA SHEET Ansercoll 5-10-15-20 adhesive	

prepared in accordance with Commission Regulation (EU) No 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

H225 Highly flammable liquid and vapour
Flam. Liq. 2 Flammable liquids, Hazard Category 2
H315 Causes skin irritation
Skin Irrit. 2 Skin irritation, Hazard Category 2
H317 May cause an allergic skin reaction
Skin Sens. 1 Skin sensitisation, Hazard Category 1
H336 May cause drowsiness or dizziness
STOT SE 3 Specific target organ toxicity — single exposure, Hazard Category 3
H373 May cause damage to organs through prolonged or repeated exposure
STOT RE 2 Specific target organ toxicity — repeated exposure, Hazard Category 2
H361 Suspected of damaging fertility or the unborn child
Repr. 2 Reproductive toxicity, Hazard Category 2
H411 Toxic to aquatic life with long lasting effects
Aquatic Chronic 2 Hazardous to the aquatic environment — chronic hazard, Category 2
H226 Flammable liquid and vapour
Flam. Liq. 3 Flammable liquids, Hazard Category 3
H312 Harmful in contact with skin
Acute Tox. 4 Acute toxicity, dermal, Hazard Category 4
H332 Harmful if inhaled
Acute Tox. 4 Acute toxicity, inhalation, Hazard Category 4
H335 May cause respiratory irritation
H319 Causes serious eye irritation
Eye Irrit. 2 Eye irritation, Hazard Category 2
H400 Very toxic to aquatic life
Aquatic Acute 1 Hazardous to the aquatic environment — acute hazard, Category 1
H410 Very toxic to aquatic life with long lasting effects
Aquatic Chronic 1 Hazardous to the aquatic environment — chronic hazard, Category 1

Explanation of abbreviations and acronyms

Abbreviation	Meaning
CEN	European Committee for Standardization
C&L	Classification and Labelling
CLP	Regulation on Classification, Labelling and Packaging; Regulation (EC) No 1272/2008
CAS	Chemical Abstracts Service number
COM	European Commission
CMR	Carcinogenic, mutagenic or toxic to reproduction
CSA	Chemical Safety Assessment
CSR	Chemical Safety Report
DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
DPD	Dangerous Preparations Directive 1999/45/EEC

SAFETY DATA SHEET 	Revision date: 22.03.2023 VERSION: 3.0/EN
SAFETY DATA SHEET Ansercoll 5-10-15-20 adhesive	

prepared in accordance with Commission Regulation (EU) No 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Abbreviation	Meaning
DSD	Dangerous Substances Directive 67/548/EEC
EC	European Commission
EC50	Median effective concentration
ECB	European Chemicals Bureau
ECHA	European Chemicals Agency
EC	EINECS and ELINCS number (see also EINECS and ELINCS)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EN	European Standard
EU	European Union
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
IC50	Concentration causing 50 percent inhibition of a given parameter
IUCLID	International Uniform Chemical Information Database
IUPAC	International Union of Pure and Applied Chemistry
LC50	Median lethal concentration
LD50	Median lethal dose
MSDS	Material Safety Data Sheet
PBT	Persistent, bioaccumulative and toxic substance
PEC	Predicted environmental concentration
PNEC(s)	Predicted no-effect concentration(s)
PPE	Personal protective equipment
REACH	Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
SDS	Safety Data Sheet
SIEF	Substance Information Exchange Forum
STOT	Specific target organ toxicity
(STOT) RE	Repeated exposure
(STOT) SE	Single exposure
SVHC	Substance of Very High Concern
vPvB	Very persistent and very bioaccumulative [substance]
UN number	Material identification number under the ADR agreement.
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
IMDG	International Maritime Dangerous Goods Code

SAFETY DATA SHEET 	Revision date: 22.03.2023 VERSION: 3.0/EN
SAFETY DATA SHEET Ansercoll 5-10-15-20 adhesive	

prepared in accordance with Commission Regulation (EU) No 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Abbreviation	Meaning
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
MARPOL	International Convention for the Prevention of Pollution from Ships (MARPOL)
EmS	Emergency Schedules for ships carrying dangerous goods
NDS	Occupational exposure limit — time-weighted average (TLV-TWA) (OEL-TWA) (PEL-TWA)
NDSch	Short-term exposure limit (TLV-STEL)
NDSP	Ceiling occupational exposure limit (TLV-C)

Training

Before starting work with the product, the user should familiarise themselves with occupational health and safety rules regarding handling chemicals, and in particular undergo appropriate workstation training. Persons involved in the transport of dangerous goods under the ADR Agreement should be appropriately trained in the performance of their duties (general, workstation-specific and safety training).

VERSION: 3.0 Amendments in Sections: 1-16