

SAFETY DATA SHEET 	Revision date: 09.03.2026 VERSION: 3.0/EN
SAFETY DATA SHEET CONI Adhesive – Gun-Applied PUR PLUS	

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

CONI Adhesive – gun-applied

PUR PLUS

UFI: Y160-D04Y-H00S-4C7P

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

Identified uses: Aerosol adhesive for bonding insulation boards and panels, gypsum plasterboards, decorative boards and building ceramic shapes to typical building substrates. Detailed information on the use, properties and method of application is given in the technical data sheet.

Uses advised against: Other than those listed above.

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

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:

Aerosols, Hazard Category 2

Extremely flammable aerosol. Pressurised container: may burst if heated (H222-H229).

Hazards to health

Skin irritation, Hazard Category 2 [Skin Irrit. 2] — Causes skin irritation. (H315)

Eye irritation, Hazard Category 2 [Eye Irrit. 2] — Causes serious eye irritation. (H319)

Skin sensitisation, Hazard Category 1, 1A, 1B [Skin Sens.1] — May cause an allergic skin reaction. (H317)

Acute toxicity (inhalation), Hazard Category 4 [Acute Tox. 4] — Harmful if inhaled. (H332)

Respiratory sensitisation, Hazard Category 1; 1A; 1B [Resp. Sens. 1] — May cause allergy or asthma symptoms or breathing difficulties if inhaled. (H334)

Specific target organ toxicity – single exposure, Hazard Category 3 [STOT SE.3] — May cause respiratory irritation. (H335)

Carcinogenicity, Hazard Category 2 [Carc.2] — Suspected of causing cancer. (H351)

Reproductive toxicity, additional category, effects on or via lactation [Lact.] — May cause harm to breast-fed children. (H362)

Specific target organ toxicity – repeated exposure, Hazard Category 2 [STOT RE 2] — May cause damage to organs through prolonged or repeated exposure. (H373)

Hazards to the environment:

Hazardous to the aquatic environment – acute hazard, Category 1 [Aquatic Acute 1] — Very toxic to aquatic life. (H400)

Hazardous to the aquatic environment – chronic hazard, Category 1 [Aquatic Chronic 1] — Very toxic to aquatic life with long lasting effects. (H410)

2.2 Label elements

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Pictograms: GHS02, GHS08, GHS07, GHS09

Signal word: DANGER

Names of hazardous constituents on label:

Diphenylmethane diisocyanate, mixture of isomers and homologues

4,4'-methylenediphenyl diisocyanate

Chloroalkanes, C14-17

Hazard statements (H)

H222-H229 Extremely flammable aerosol. Pressurised container: may burst if heated.

H332 Harmful if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

H362 May cause harm to breast-fed children.

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

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements (P)

General: P102 Keep out of reach of children.

Prevention:

P201 Obtain special instructions before use.

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

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P260 Do not breathe mist/vapours/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

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

P271 Use only outdoors or in a well-ventilated area.

Response:

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

Storage:

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Disposal:

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

Supplemental hazard statements

EUH204 Contains isocyanates. May produce an allergic reaction.

Additional information:

As of 24 August 2023, appropriate training is required before industrial or professional use.

2.3 Other hazards

Vapours form explosive mixtures with air. Heating causes a pressure increase and risk of bursting.

The product contains constituents meeting the PBT or vPvB criteria in accordance with Annex XIII - Chlorinated paraffins, C14-17 (CAS: 85535-85-9).

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PBT: 85535-85-9 chloroalkanes, C14-17

vPvB: 85535-85-9 chloroalkanes, C14-17

PBT substances (persistent, bioaccumulative and toxic substances).

vPvB substances (very persistent and very bioaccumulative substances).

Ecological information: The mixture does not contain constituents considered to have endocrine-disrupting properties towards the environment, under REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

Toxicological information: The mixture does not contain constituents considered to have endocrine-disrupting properties under REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100, at levels of 0.1% or above.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

Not applicable.

3.2 Mixtures

Identification numbers	Chemical name	wt. %	Pictogram	Hazard class / category codes; specific conc. limits, M-factors, ATE	H-statement codes
CAS: 9016-87-9 EC (EINECS): — Index No.: — Own registration number: Polymer exempt from registration under REACH Art. 9	Diphenylmethane diisocyanate, mixture of isomers and homologues [1,3]	22<x<30	GHS08 GHS07 Dgr	Carc. 2; Acute Tox. 4; Eye Irrit. 2; STOT SE 3; Skin Irrit. 2; Skin Sens. 1; STOT RE 2; Resp. Sens. 1 Specific conc. limits: Eye Irrit. 2 H319: C≥5%; Skin Irrit. 2 H315: C≥5%; Resp. Sens. 1 H334: C≥0.1%; STOT SE 3 H335: C≥5%	H351 H332 H319 H335 H315 H317 H373 H334
CAS: 25791-96-2 EC (EINECS): 500-044-5	Glycerol, propoxylated	15<x<20	GHS07 Wng	Acute Tox. 4	H302
CAS: 101-68-8 EC (EINECS): 202-966-0 Index No.: 615-005-00-9 Own registration number: 01-2119457014-47-xxxx	4,4'-methylenediphenyl diisocyanate [1,3]	11<x<16	GHS07 GHS08 Dgr	Skin Irrit. 2; Eye Irrit. 2; Skin Sens 1; Acute Tox. 4; STOT SE 3; Resp. Sens.1; Carc. 2; STOT RE 2 Specific conc. limits: STOT SE 3 H335: C≥5%; Eye Irrit. 2 H319: C≥5%; Resp. Sens. 1 H334: C≥0.1%; Skin Irrit. 2 H315: C≥5%	H315 H319 H317 H332 H335 H351 H373
CAS: 85535-85-9 EC (EINECS): 287-477-0	Chloroalkanes, C14-17 [4]	10<x<15	GHS09 Wng	Lact.; Aquatic Chronic 1 M=100; Aquatic Acute 1 M=10	H362 H410 H400

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Identification numbers	Chemical name	wt. %	Pictogram	Hazard class / category codes; specific conc. limits, M-factors, ATE	H-statement codes
Index No.: 602-095-00-X					EUH066
CAS: 115-10-6 EC (EINECS): 204-065-8 Index No.: 603-019-00-8 Own registration number: 01-2119472128-37-xxxx	Dimethyl ether [1,2]	10<x<15	GHS02 GHS04 Dgr	Flam. Gas 1A; Press. Gas L	H220 H280
CAS: 74-98-6 EC (EINECS): 200-827-9 Index No.: 601-003-00-5	Propane [1]	0<x<11	GHS02 GHS04 Dgr	Flam. Gas 1A; Press. Gas C	H220 H280
CAS: 75-28-5 EC (EINECS): 200-857-2	Isobutane	0<x<11	GHS02 Dgr	Flam. Gas 1A; Press Gas L	H220 H280
CAS: 106-97-8 EC (EINECS): 203-448-7 Index No.: 601-004-00-0	Butane [1]	0<x<11	GHS02 Dgr	Flam. Gas 1A; Press Gas C	H220 H280
CAS: 106-98-9 EC (EINECS): 203-449-2 Index No.: 601-012-00-4	But-1-ene	0<x<1	GHS02 Dgr	Flam. Gas 1A; Press Gas C	H220 H280
CAS: 115-07-1 EC (EINECS): 204-062-1 Index No.: 601-011-00-9	Propene [1]	0<x<1	GHS02 GHS04 Dgr	Flam. Gas 1A; Press. Gas C	H220 H280
CAS: 107-98-2 EC (EINECS): 203-539-1 Index No.: 603-064-00-3 Own registration number: 01-2119457435-35-xxxx	Propylene glycol monomethyl ether [1,2]	≤1	GHS02 GHS07 Wng	Flam. Liq. 3; STOT SE 3	H226 H336
CAS: 6425-39-4 EC (EINECS): 229-194-7 Own registration number: 01-2119969278-20-xxxx	2,2-dimorpholinodiethyl ether (DMDEE)	<1	GHS07 Wng	Eye Irrit. 2	H319

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Identification numbers	Chemical name	wt. %	Pictogram	Hazard class / category codes; specific conc. limits, M-factors, ATE	H-statement codes
CAS: 111-46-6 EC (EINECS): 203-872-2 Index No.: 603-140-00-6 Own registration number: 01-2119457857-21-xxxx	Diethylene glycol [1]	<0.5	GHS07 Wng	Acute Tox. 4	H302

Key:

- [1] Substance with a nationally set occupational exposure limit value. See Section 8.
 - [2] Substance with an EU-set occupational exposure limit value. See Section 8.
 - [3] Restrictions on use – Annex XVII REACH.
 - [4] Substance included in the Candidate List of substances of very high concern awaiting authorisation [inclusion in Annex XIV].
- 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

Skin contact: Remove contaminated clothing. Rinse exposed skin thoroughly with running water and soap. Consult a doctor if worrying symptoms occur.

Eye contact: Rinse contaminated eyes thoroughly with water for at least 15 minutes. Avoid a strong stream of water — risk of corneal damage. Protect the unaffected eye, remove contact lenses. Consult an ophthalmologist if irritation occurs.

Ingestion: Swallowing is unlikely when the aerosol is used as intended. In case of accidental ingestion, rinse the mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention if symptoms occur.

Inhalation: Move the affected person to fresh air, keep warm and at rest. Consult a doctor if feeling unwell.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in Section 2.2 (label elements) and/or Section 11.

4.3 Indication of any immediate medical attention and special treatment needed

The decision on emergency treatment is made by a doctor after a thorough assessment of the casualty's condition.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Foam, carbon dioxide, extinguishing powders, water — water spray.

Unsuitable extinguishing media: A solid (jet) stream of water — risk of spreading the fire.

5.2 Special hazards arising from the substance or mixture

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During a fire, the product may decompose releasing hazardous gases such as carbon oxides, hydrogen cyanide (HCN), and other unidentified thermal decomposition products. Pressurised containers may burst or explode under high temperature. Do not inhale fire smoke — it may pose a serious health hazard.

5.3 Advice for firefighters

Follow the procedures applicable to fighting chemical fires. General fire-protection measures typical for a fire. Do not remain in the fire-endangered area without appropriate chemical-resistant clothing and self-contained breathing apparatus. Cool fire-exposed containers from a safe distance with a water spray. Collect used extinguishing agents.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel: Restrict access of unauthorised persons to the area of the incident until the appropriate cleanup operations have been completed. In the event of large spills, isolate the endangered area. Use personal protective equipment [see Section 8]. Avoid contact with eyes and skin. Ensure local ventilation. Remove all ignition sources — extinguish open flames, do not smoke, do not use sparking tools or equipment, eliminate hot surfaces and other heat sources.

For emergency responders: Ensure that only trained personnel carry out the clean-up of the spill and its consequences. Use personal protective equipment [see Section 8].

6.2 Environmental precautions

Prevent the product from entering drains, water or soil. In the event of a large release of the product, notify the appropriate authorities.

6.3 Methods and material for containment and cleaning up

Collect damaged packaging mechanically. Absorb the spill using non-combustible liquid-absorbing materials (e.g. sand, earth, diatomaceous earth, vermiculite) and place in waste containers. Treat the collected material as waste. Clean the contaminated area. Do not use sparking tools. Do not smoke.

6.4 Reference to other sections

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

SECTION 7: HANDLING AND STORAGE**7.1 Precautions for safe handling**

Use only as intended, in well-ventilated rooms. Avoid contact with skin and eyes. Persons with skin allergies should avoid contact with the product. Do not inhale the sprayed aerosol. Protect from ignition sources — do not smoke nearby. Do not spray near open flames or onto hot surfaces. Pressurised container — do not pierce or burn, even after use. Avoid accumulation of vapours and aerosol — an explosive mixture may form. Use measures to prevent electrostatic discharge.

Wash hands with soap and water after use. Do not eat, drink or smoke while working with the product.

Breastfeeding women should avoid exposure to the product, in particular from inhaling the aerosol or prolonged skin contact.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, well-ventilated place, away from heat sources, sparks, open flames and hot surfaces. Do not expose to temperatures exceeding 50°C. Protect from direct sunlight. Pressurised containers — risk of bursting if overheated. Store upright, in the original, tightly closed packaging. Avoid contact with strong oxidisers. Do not store together with food, beverages or animal feed. Keep out of reach of children. The use of aerosol-resistant, appropriately labelled packaging is recommended.

7.3 Specific end use(s)

See Section 1.2 of the SDS. No information available on other uses.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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8.1 Control parameters

Hexamethylene-1,6-diisocyanate homopolymer [9016-87-9]* — OEL (NDS) 0.03 mg/m³; STEL (NDSch) 0.09 mg/m³; Ceiling (NDSP) not established. *By analogy with other diisocyanates.

PL: Methylenebis(phenyl isocyanate) [101-68-8] — OEL (NDS) 0.03 mg/m³; STEL (NDSch) 0.09 mg/m³; Ceiling (NDSP) not established.

PL: Butane [106-97-8] — OEL (NDS) 1900 mg/m³; STEL (NDSch) 3000 mg/m³; Ceiling (NDSP) not established.

PL: Propane [74-98-6] — OEL (NDS) 1800 mg/m³; STEL (NDSch) not established; Ceiling (NDSP) not established.

PL: Propene [115-07-1] — OEL (NDS) 2000 mg/m³; STEL (NDSch) 8600 mg/m³; Ceiling (NDSP) not established.

PL: Dimethyl ether [115-10-6] — OEL (NDS) 1000 mg/m³; STEL (NDSch) not established; Ceiling (NDSP) not established.

PL: 2,2'-oxydiethanol / diethylene glycol [111-46-6] — OEL (NDS, inhalable fraction) 10 mg/m³; STEL (NDSch) not established; Ceiling (NDSP) not established.

PL: 1-methoxypropan-2-ol [107-98-2] — OEL (NDS) 180 mg/m³; STEL (NDSch) 360 mg/m³; Ceiling (NDSP) not established. Note: skin — dermal absorption of the substance may be as significant as exposure via inhalation.

Legal basis: Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on maximum permissible concentrations and intensities of factors harmful to health in the working environment, Journal of Laws 2018.1286, as amended [Journal of Laws 2020.61; Journal of Laws 2023, item 1658]. 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 26 July 2024 on chemical substances, mixtures, factors or technological processes with carcinogenic, mutagenic or reprotoxic effects in the working environment (Journal of Laws 2024, item 1126).

EU: Diisocyanates (measured as NCO) — NCO refers to the isocyanate functional groups of diisocyanate compounds. TWA (8h): 6 µg NCO/m³; STEL (15 min): 12 µg NCO/m³. Skin sensitizer and respiratory sensitizer. Until 31 December 2028, a transitional limit value of 10 µg NCO/m³ (8-hour TWA) and a short-term exposure limit of 20 µg NCO/m³ apply.

Dimethyl ether [115-10-6] — TWA (8h): 1920 mg/m³ / 1000 ppm; STEL (15 min): not established.

1-Methoxypropan-2-ol [107-98-2] — TWA (8h): 375 mg/m³ / 100 ppm; STEL (15 min): 568 mg/m³ / 150 ppm.

Legal basis: Commission Directive 2000/39/EC; Directive 2004/37/EC; Commission Directive 2006/15/EC; Commission Directive 2009/161/EU; Commission Directive 2017/164/EU; Commission Directive 2019/1831/EU; Directive (EU) 2022/431 amending Directive 2004/37/EC; Directive (EU) 2024/869 of 13 March 2024 amending Directives 2004/37/EC and 98/24/EC as regards limit values for lead and its inorganic compounds and diisocyanates.

DNEL/PNEC — 101-68-8 4,4'-methylenediphenyl diisocyanate: DNEL consumer, inhalation, long-term, local effects: 0.025 mg/m³; short-term, local effects: 0.05 mg/m³. DNEL worker, inhalation, long-term, local effects: 0.05 mg/m³; short-term, local effects: 0.1 mg/m³. PNEC: freshwater 3.7 µg/l; marine water 0.37 µg/l; intermittent release 37 µg/l; freshwater sediment 11.7 mg/kg dw; marine sediment 1.17 mg/kg dw; soil 2.33 mg/kg dw.

Recommended monitoring procedures: Monitoring procedures for hazardous component concentrations in air and workplace air-quality control procedures should be applied — where available and justified for the given position — in accordance with the relevant Polish or European Standards, taking into account exposure conditions and appropriate measurement methodology.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ventilation: provide adequate local and general ventilation to keep airborne diisocyanate concentrations as low as possible. Use extraction systems at the source of emission. Process enclosure: use closed processing systems and automatic dosing systems to limit diisocyanate emissions. Minimise open operations where vapour or aerosol release could occur.

8.2.2 Individual protection measures, such as personal protective equipment

Note: aerosols, like most vapours/mists, should never be used in enclosed spaces without adequate ventilation.

Respiratory protection: Not necessary under normal conditions with adequate ventilation. Required when exposed to high vapour concentrations. Where exposure to diisocyanates cannot be avoided, or the exposure level exceeds the permissible

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values, use a suitable particulate-filter mask or breathing apparatus. The product should not be used in poorly ventilated conditions unless a protective mask with a suitable gas filter is used (e.g. type A1 to EN 14387).

Hands and skin: Use protective gloves resistant to the product. The glove material should be selected individually for the workstation. Recommended glove materials: nitrile, neoprene, with a performance level of 2 or higher. Do not use latex gloves. Gloves must be long enough to cover the wrist. Replace gloves immediately if soiled. Dispose of contaminated gloves in designated containers. The glove material must be impermeable and resistant to the product; its resistance must be checked before use. Breakthrough time information should be obtained from the glove manufacturer and observed. Regular replacement of gloves is recommended, and immediate replacement if any signs of wear, damage (tears, punctures) or changes in appearance (colour, elasticity, shape) occur.

Body protection: Wear long-sleeved clothing to protect the arms from skin contamination. Clothing fastened with snaps or Velcro allows quick removal of contaminated clothing in an emergency. Work clothing must be washed regularly when soiled. Do not take work clothing home. Remove protective clothing carefully to avoid contamination.

Eyes: Use tight-fitting safety goggles.

Occupational hygiene: General industrial occupational 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/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: Aerosol (liquid in a pressurised container)

Colour: Light to dark brown

Odour: Characteristic

Melting/freezing point: Not determined

Boiling point and boiling range: Not applicable to an aerosol mixture

Flammability: Extremely flammable product (aerosol)

Lower and upper explosive limits: No data available

Flash point: Not applicable to an aerosol

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

Decomposition temperature: No data available

pH: Not applicable [aerosol]

Kinematic viscosity [mm²/s]: No data available

Solubility: Partially reacts with water (isocyanates); some components insoluble

Partition coefficient n-octanol/water: No data available

Vapour pressure: No data available

Relative density: No data available

Relative vapour density: No data available

Particle characteristics [solids]: Not applicable

9.2 Other information

9.2.1 Information on physical hazard classes

Explosive properties: The product may form explosive mixtures with air.

Oxidising properties: Does not exhibit oxidising properties.

9.2.2 Other safety properties

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No results of additional tests.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

The product contains isocyanates, which may react with water, alcohols, amines and compounds containing active hydrogen groups. Reaction with water may generate carbon dioxide and increase pressure in closed containers. No hazardous reactions are expected under normal conditions of use.

10.2 Chemical stability

The product is stable under normal conditions of use, storage and transport. Aerosol containers are pressurised — protect from overheating.

10.3 Possibility of hazardous reactions

May react with water, alcohols, amines, strong bases and acids. Contact with moisture may cause reactions leading to gas formation and pressure increase. Insoluble polyurethanes may form in the presence of moisture.

10.4 Conditions to avoid

Avoid direct sunlight, heat sources and flames, heating above 50°C. Avoid the build-up of electrostatic charge. Avoid contact with moisture and water.

10.5 Incompatible materials

Water, alcohols, amines, strong bases, strong acids, and substances containing reactive hydrogen groups. Contact with such materials may cause exothermic reactions or gas formation.

10.6 Hazardous decomposition products

Depending on the decomposition conditions, complex mixtures of chemical substances may be released. For more information see Section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

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

Toxicity of the mixture's components:

CAS 101-68-8 4,4'-methylenediphenyl diisocyanate — Oral LD50 >2,000 mg/kg (rat); Dermal LD50 >9,400 mg/kg (rabbit).

Glycerol, propoxylated (CAS 25791-96-2) — Oral LD50 500 mg/kg (rat).

CAS 85535-85-9 Chloroalkanes, C14-17 — Oral LD50 >2000 mg/kg (rat).

Toxicity of the mixture — Acute toxicity:

ATE MIX oral (mg/kg): >2000. Based on available data, the classification criteria are not met.

ATE MIX dermal (mg/kg): >2000. Based on available data, the classification criteria are not met.

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

ATE MIX inhalation, gas (ppmV): >20,000. Based on available data, the classification criteria are not met.

ATE MIX inhalation (dust/mist): 3.26 — Harmful if swallowed or inhaled.

The acute toxicity of the mixture (ATEmix) was calculated on the basis of 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: Causes eye irritation.

Respiratory or skin sensitisation: May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Suspected of causing cancer.

Reproductive toxicity: May cause harm to breast-fed children.

Specific target organ toxicity – single exposure: May cause respiratory irritation.

Specific target organ toxicity – repeated exposure: May cause damage to organs through prolonged or repeated exposure.

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

11.2 Information on other hazards

Endocrine-disrupting properties: The substance has no effect on endocrine function in accordance with the assessment criteria in Regulations (EC) No 1907/2006, (EU) 2017/2100, (EU) 2018/605.

Other information: None known.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

The product has not been tested as a whole. The assessment is based on data on the components.

Chloroalkanes C14-17 (CAS 85535-85-9): acute toxicity to fish (96h) LC50 approx. 0.3-0.6 mg/l; acute toxicity to aquatic invertebrates (48h) EC50 approx. 0.2-0.5 mg/l; toxicity to algae (72h) EC50 approx. 0.1-1 mg/l. Very toxic to aquatic organisms with long-lasting effects.

4,4'-methylenediphenyl diisocyanate (CAS 101-68-8): acute toxicity to fish (96h) LC50 >1 mg/l; toxicity to daphnia (48h) EC50 >1 mg/l.

Hexamethylene-1,6-diisocyanate homopolymer (CAS 9016-87-9): toxicity to fish (96h) LC50 >1 mg/l; toxicity to aquatic invertebrates (48h) EC50 >1 mg/l.

Toxicity of the mixture: Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

Organic constituents undergo slow biodegradation. Isocyanates hydrolyse on contact with water, forming insoluble polyurethanes. Long-chain chloroalkanes are highly persistent in the environment.

12.3 Bioaccumulative potential

Some constituents, in particular C14-17 chloroalkanes, may have bioaccumulation potential in aquatic organisms.

12.4 Mobility in soil

The product has low water solubility. Once released into the environment, most constituents will adsorb to soil and sediment. On contact with moisture, isocyanates react to form insoluble polymers of limited mobility.

12.5 Results of PBT and vPvB assessment

The product contains constituents meeting the PBT or vPvB criteria in accordance with Annex XIII - Chlorinated paraffins, C14-17 (CAS: 85535-85-9). PBT: 85535-85-9 chloroalkanes, C14-17. vPvB: 85535-85-9 chloroalkanes, C14-17.

12.6 Endocrine-disrupting properties

Does not contain substances whose action could have adverse effects on the environment due to endocrine-disrupting properties under Regulations (EC) No 1907/2006, (EU) 2017/2100, (EU) 2018/605.

12.7 Other adverse effects

Do not allow the product to enter sewers, surface waters or soil. Aerosols may cause local environmental pollution in the event of uncontrolled release.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

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Product disposal: Do not dispose of in drains or the aquatic environment. Unused product or residues must be treated as hazardous waste. Dispose of in accordance with applicable national and local regulations via a licensed waste management company.

Do not pierce or burn empty containers, even after use. Pressurised containers may pose a hazard in disposal processes.

Proposed waste code: 16 05 04* — gases in pressure containers (including halons) containing hazardous substances.

Legal basis: EU legislation — Directives 2008/98/EC and 94/62/EC, as amended. National legislation — Act of 14 December 2012 on Waste (Journal of Laws 2023, item 1587, consolidated text); Act of 13 June 2013 on Packaging and Packaging Waste Management (Journal of Laws 2024, item 927, consolidated text); 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 the regulations on the carriage of dangerous goods under ADR (road), RID (rail), ADN (inland waterway), IMDG (sea) and ICAO/IATA (air).

14.1 UN number or ID number

ADR/RID/IMDG/IATA: UN1950

14.2 UN proper shipping name

ADR/RID: AEROSOLS, flammable

IMDG/IATA: AEROSOLS, flammable

14.3 Transport hazard class(es)

ADR/RID/IMDG/IATA: 2

14.4 Packing group

ADR/IMDG/IATA: not applicable

14.5 Environmental hazards

ADR/IMDG/IATA: The product is hazardous to the environment in accordance with the criteria contained in the UN Model Regulations.

NOTE: Materials hazardous to the environment, packed in single or inner packagings within combination packagings, not exceeding 5 litres (liquids) or 5 kilograms (solids), are exempt from the transport requirements relating to environmental hazard, in accordance with: ADR 5.2.1.8.1 special provision 375; RID 5.2.1.8; IMDG Code 2.10.2.7; IATA DGR Special Provision A197. This exemption requires compliance with packaging construction requirements (Chapter 4.1 of ADR/RID/IMDG, or the IATA packing instructions); in such cases the environmentally hazardous substance mark ("fish and tree") is not required.

14.6 Special precautions for user

ADR: Classification code 5F; tunnel restriction code (D); transport category 2; limited quantities 1L; excepted quantities E0; special provisions 3.3: 190, 327, 344, 625; special provision 7.2.4: V14; special provisions 7.5.11: CV9, CV12; special provisions 4.1.4: PP87, RR6, L2; packing instructions P207, LP200; mixed packing MP9.

RID: Classification code 5F; transport category 2; limited quantities 1L; excepted quantities E0; special provisions 3.3: 190, 327, 344, 625; special provisions 4.1.4: PP87, RR6, L2; packing instructions P207, LP200; mixed packing MP9; express parcels CE2; special provision for packages W14; loading special provisions CW9, CW12; hazard identification number 23.

IMDG: EmS code F-D, S-U; stowage SW1, SW22; segregation SG69; limited quantities 1000 ml; excepted quantities E0; packing instructions P207, LP200; special provisions 4.1.4: PP87, L2; special provisions 3.3: 63,190,277,327,344,381,959.

IATA: Hazard labels: Flamm. gas; excepted quantities E0; limited quantities (passenger and cargo) Y203; maximum net quantity (LQ) 30 kg; packing instructions (passenger and cargo) 203; maximum net quantity (cargo aircraft only) 150 kg; packing instructions (cargo aircraft only) 203; special provisions A145, A167, A802; ERG code 10L.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

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SECTION 15: REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Seveso III Directive (2012/18/EU): The mixture is classified under the following Seveso III hazard categories:

- E1 — Hazardous to the aquatic environment (acute, category 1)
- P3a FLAMMABLE AEROSOLS — Category 1 or 2 aerosols containing category 1 or 2 flammable gases or category 1 flammable liquids

Seveso III quantity thresholds: E1 — lower-tier: 100 t, upper-tier: 200 t. P3a — lower-tier: 150 t (net), upper-tier: 500 t (net).

Restrictions under Annex XVII REACH: Diisocyanates covered by restriction entry 74: As of 24 August 2023, products containing >0.1% w/w diisocyanates may not be used by professionally exposed persons unless they have completed specialised training in accordance with Commission Regulation (EU) 2020/1149. Information obligation: the product packaging must bear the statement: "As of 24 August 2023, appropriate training is required before industrial or professional use."

Substances of Very High Concern (SVHC) under REACH Article 57: 85535-85-9 chloroalkanes, C14-17 (D(2021)4569-DC).

Other regulations — National legislation: Act of 14 December 2012 on Waste (consolidated text, Journal of Laws 2023, item 1587); Act of 13 June 2013 on Packaging and Packaging Waste Management (consolidated text, Journal of Laws 2025, item 870); Act on the Carriage of Dangerous Goods of 19 August 2011 (consolidated text, Journal of Laws 2024, item 643); Act of 13 April 2016 on the Safety of Trade in Explosives Precursors (consolidated text, Journal of Laws 2019, item 994); Act of 25 February 2011 on Chemical Substances and their Mixtures (consolidated text, Journal of Laws 2022, item 1816); Regulation of the Minister of Climate of 2 January 2020 on the Waste Catalogue (Journal of Laws 2020, item 10); Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on maximum permissible concentrations of harmful factors in the working environment (Journal of Laws 2018.1286, as amended, including 2024, item 1017); Regulation of the Minister of Health of 2 February 2011 on tests and measurements of factors harmful to health in the working environment (consolidated text, Journal of Laws 2025.949); Regulation of the Minister of Health of 30 December 2004 on occupational health and safety related to chemical agents in the workplace (consolidated text, Journal of Laws 2025, item 836); Regulation of the Minister of Economy of 5 November 2009 on detailed requirements for aerosol products (consolidated text, 2019, item 975); Government Declaration of 6 March 2025 on the entry into force of amendments to Annexes A and B to the ADR Agreement (Journal of Laws 2025, item 642).

EU legislation: Regulation (EC) No 1907/2006 (REACH); Regulation (EC) No 1272/2008 (CLP), including the latest ATPs; Commission Regulation (EU) 2020/878; Regulation (EC) No 648/2004 on detergents; Regulation (EU) 2026/405 on detergents and surfactants, repealing Regulation (EC) No 648/2004; Regulation (EC) No 1013/2006 on shipments of waste; Regulation (EU) No 649/2012 concerning the export and import of hazardous chemicals (PIC Regulation); Regulation (EC) No 1223/2009 on cosmetic products; Regulation (EU) 2019/1021 on persistent organic pollutants; Regulation (EU) 2019/1148 on the marketing and use of explosives precursors; Directive 94/62/EC on packaging and packaging waste, as amended; Directive 2008/98/EC on waste, as amended; Directive 2012/19/EU on waste electrical and electronic equipment (WEEE); Directive (EU) 2022/431 amending Directive 2004/37/EC; Commission Directive 2000/39/EC; Directive 2004/37/EC on the protection of workers from carcinogens, mutagens or reprotoxic substances at work.

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**16.0 Other sources of data**

IUCLID Data Bank (European Commission – European Chemicals Bureau). ESIS – European Chemical Substances Information System (European Chemicals Bureau).

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

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

Aerosols 1, H222, H229 — based on test results.

Skin Irrit. 2 H315; Eye Irrit. 2 H319; STOT RE 2 H373; Skin Sens. 1 H317; Acute Tox. 4 H332; Resp. Sens. 1 H334; STOT SE 3 H335; Carc. 2 H351; Lact. H362; Aquatic Acute 1 H400; Aquatic Chronic 1 H410 — calculation method.

16.2 H-statements used in Sections 2 and 3 of the Safety Data Sheet

Code	Full text
H280	Contains gas under pressure; may explode if heated.
Press. Gas	Flammable gas, Category 1.
H220	Extremely flammable gas.
Flam. Gas 1	Flammable gases, Hazard Category 1.
H315	Causes skin irritation.
Skin Irrit. 2	Skin irritation, Hazard Category 2.
H319	Causes serious eye irritation.
Eye Irrit. 2	Eye irritation, Hazard Category 2.
H351	Suspected of causing cancer.
Carc. 2	Carcinogenicity, Hazard Category 2.
H332	Harmful if inhaled.
Acute Tox 4	Acute toxicity, inhalation, Hazard Category 4.
H302	Harmful if swallowed.
Acute Tox 4	Acute toxicity (oral), Hazard Category 4.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Resp.Sens 1	Respiratory sensitisation, Hazard Category 1.
H335	May cause respiratory irritation.
STOT SE 3	Specific target organ toxicity — single exposure, Hazard Category 3.
H317	May cause an allergic skin reaction.
Skin Sens. 1	Skin sensitisation, Hazard Category 1, 1A, 1B.
H373	May cause damage to organs through prolonged or repeated exposure.
STOT RE 2	Specific target organ toxicity — repeated exposure, Hazard Category 2.
H362	May cause harm to breast-fed children.
Lact.	Reproductive toxicity, additional category, effects on or via lactation.
H400	Very toxic to aquatic life.

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Code	Full text
Aquatic Acute 1	Hazardous to the aquatic environment, Hazard Category 1.
H410	Very toxic to aquatic life with long lasting effects.
Aquatic Chronic 1	Hazardous to the aquatic environment, Hazard Category 1.
EUH 066	Repeated exposure may cause skin dryness or cracking.
H226	Flammable liquid and vapour.
Flam. Liq. 3	Flammable liquids, Hazard Category 3.
H336	May cause drowsiness or dizziness.
STOT SE 3	Specific target organ toxicity — single exposure, Hazard Category 3.

16.3 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
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

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Abbreviation	Meaning
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
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
OEL (NDS)	Occupational exposure limit — time-weighted average (TLV-TWA) (OEL-TWA) (PEL-TWA)
STEL (NDSch)	Short-term exposure limit (TLV-STEL)
Ceiling limit (NDSP)	Ceiling occupational exposure limit (TLV-C)

16.4 Training

Before starting work with the product, the user should familiarise themselves with occupational health and safety rules for handling chemicals, and in particular undergo appropriate job-specific training. Persons involved in the transport of dangerous

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goods under the ADR Agreement should receive appropriate training relevant to their duties (general awareness, function-specific and safety training).

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