

22710005 Ruberseal PUR Adhesive (5ltr) - V2

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) No 453/2010

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

- · 1.1 Product identifier
- · Trade name: Ruberseal PUR Adheshive Product Code: 22710005 UFI Number: N7AV-MEAK-8326-83D8
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

- · Application of the substance / the mixture Adhesives
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

IKO PLC

Appley Lane North

Appley Bridge

Wigan

Lancashire

WN6 9AB

www.ikogroup.co.uk

- · Further information obtainable from: Tel: +46 (0) 370 510 100
- · 1.4 Emergency telephone number: NVIC-Nederland. Tel: +31-30-2748888 (only medical personnel)

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS08 health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Carc. 2 H351 Suspected of causing cancer.



GHS07

Eye Irrit. 2 H319

H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

- 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms





CLICOS

GHS08

- · Signal word Danger
- · Hazard-determining components of labelling:

diphenylmethanediisocyanate,isomeres and homologues

· Hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

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

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

· Precautionary statements

P280

Wear protective gloves / eye protection.

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) No 453/2010

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P210 Keep away from open flames. - No smoking.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P402+P404 Store in a dry place. Store in a closed container.

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

Additional information:

Contains isocyanates. May produce an allergic reaction.

Restricted to professional users.

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment Not applicable.
- · PBT: Not applicable.
- · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.2 Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:			
CAS: 141-78-6	ethyl acetate	10-25%	
EINECS: 205-500-4	♦ Flam. Liq. 2, H225; ♦ Eye Irrit. 2, H319; STOT SE 3, H336		
CAS: 9016-87-9	diphenylmethanediisocyanate,isomeres and homologues	2.5-10%	
Polymer	Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335		

[·] Additional information: For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · General information:

Personal protection for the First Aider.

Remove contaminated clothing. If symptoms persist or in cases of doubt seek medical advice.

· After inhalation:

In case of unconsciousness place patient stably in side position for transportation.

Supply fresh air and to be sure call for a doctor.

If the casualty is not breathing: Perform mouth-to-mouth or mouth-to-nose resuscitation, notify emergency physician immediately

- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- · After swallowing:

Rinse mouth with water.

If symptoms persist consult doctor.

- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- For safety reasons unsuitable extinguishing agents:

Water

Water with full jet

5.2 Special hazards arising from the substance or mixture

Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:

Carbon monoxide (CO)

- 5.3 Advice for firefighters
- Protective equipment:

Wear self-contained respiratory protective device.

(Contd. on page 3)

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) No 453/2010

Wear fully protective suit.

(Contd. of page 2)

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· 6.2 Environmental precautions:

Prevent seepage into sewage system, workpits and cellars.

Do not allow to enter sewers/ surface or ground water.

· 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

- · 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- · Information about fire and explosion protection:

Keep ignition sources away - Do not smoke.

As of July 2003, organizations in the EU must follow the directives to protect employees from explosion risk in areas with an explosive atmosphere.

There are two ATEX directives (one for the manufacturer and one for the user of the equipment):

- the ATEX 95 equipment directive 94/9/EC, Equipment and protective systems intended for use in potentially explosive atmospheres:
- the ATEX 137 workplace directive 99/92/EC, Minimum requirements for improving the safety and health protection of workers potentially at risk from explosive atmospheres.
- · 7.2 Conditions for safe storage, including any incompatibilities
- Storage:
- · Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace:

141-78-6 ethyl acetate

WEL Short-term value: 400 ppm Long-term value: 200 ppm

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

WEL Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³

Sen; as -NCO

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Wear high-quality protective equipment during operations such as grinding, drilling and/or sawing

Dust mask FFP3 (Filtering Facepiece Partikel) (EN 149: 2001)

Gloves (grinding) (EN388 (4.1.3.1)) Safety glasses (EN166-168, 170)

Hearing protection (EN352-2)

(Contd. on page 4)

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) No 453/2010

(Contd. of page 3)

Vacuum clean contaminated clothing. Do not blow or brush off contamination.

Store protective clothing separately.

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Do not carry product impregnated cleaning cloths in trouser pockets.

Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

Oxygen content of the inhalation air must be sufficient i.e. > 17%

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Filter AXP3(EN371)

Protection of hands:



Protective gloves

Nitrile rubber gloves(EN374, EN388:4101).

Permeation EN374-3: 2003 (minutes)> 480 minutes

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation While wearing protective gloves cotton single-use undergloves are recommendable. However, these undergloves must be discarded after each use to avoid potential exposure to absorbed product.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

- For the permanent contact gloves made of the following materials are suitable: Nitril rubber, NBR
- · For contact of maximum 15 minutes, gloves made of the following materials are suitable: Nitrile rubber, NBR
- · Eye protection:



Tightly sealed goggles

Safety glasses(EN166)

· Body protection: Protective work clothing(EN 340, 463, 468, 943-1, 943-2)

SECTION 9: Physical and chemical properties

- · 9.1 Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Fluid

Colour: Amber coloured
Characteristic

· **pH-value:** Not applicable.

· Change in condition

Boiling point/Boiling range: 40 °C

· Flash point: -4 °C

Self-igniting: Product is not selfigniting.

· Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are

possible.

· Explosion limits:

Lower: 2.1 Vol % Upper: 11.5 Vol %

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According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) No 453/2010

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· Vapour pressure at 20 °C: 97 hPa

Density at 20 °C: 1.05 g/cm³

· Solubility in / Miscibility with

water(20 °C): Not miscible or difficult to mix.

· Viscosity:

Dynamic at 20 °C: 2500 mPas

· Solvent content:

Organic solvents: 16.8 %

• **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

- · 10.1 Reactivity
- 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: Oxidizing agents
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

The product has not been tested. The statements underneath have been derived from the properties of the individual components.

· Acute toxicity

· LD/LC50 values relevant for classification:				
141-78-6 ethyl acetate				
Oral	LD50	5620 mg/kg (Rabbit)		
Inhalative	LC50, 4h	1600 mg/l (Rat)		
9016-87-9 diphenylmethanediisocyanate,isomeres and homologues				
Oral	LD50	> 10000 mg/kg (Rat) Referenz: National Technical Information Service. Vol. OTS0516728,		
Dermal	LD50	> 9400 mg/kg (Rabbit) Referenz: Office of Toxic Substances Report. Vol. OTS0517028		
Inhalative	ATE mix dust/mist (calculated)	1.5 mg/l, 4h (Rat) (Expert judgement)		

- Primary irritant effect:
- · Skin corrosion/irritation No irritant effect.
- · Serious eye damage/irritation Irritating effect.
- Respiratory or skin sensitisation

Sensitisation possible through inhalation.

Sensitisation possible through skin contact.

· Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful

Irritant

· Acute effects (acute toxicity, irritation and corrosivity)

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

OECD 405, slijmvliesirritatie non-irritant (Rabbit)

Toxicological study of a comparable product

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Carc. 2

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) No 453/2010

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SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity:

141-78-6 ethyl acetate

EC50, 24h > 164 mg/l (Daphnia magna)

> 230 mg/l (Fish) LC50, 96h

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

EC50, 24h > 1000 mg/l (Daphnia magna)

EC50, 24h OECD 202 > 1000 mg/l (Daphnia magna)

EC50, 72h OECD201 > 1640 mg/l (Scenedesmus subspicatus)

LC0, 96h > 1000 mg/l (Zebrabärbling)

- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Other information:

Ecotoxicological data have not been determined specifically for this product. Information given is based on knowledge of the components and the ecotoxicology of similar products.

- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- European waste catalogue Please contact your waste disposer for the exact waste code.
- Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

- · 14.1 UN-Number
- · ADR, IMDG, IATA UN1133

· 14.2 UN proper shipping name

· ADR 1133 ADHESIVES, special provision 640H

· IMDG, IATA **ADHESIVES**

- · 14.3 Transport hazard class(es)
- · ADR



· Class 3 (F1) Flammable liquids.

· I abel

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According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) No 453/2010

(Contd. of page 6)

· IMDG, IATA



· Class 3 Flammable liquids. · Label

· 14.4 Packing group

· ADR, IMDG, IATA 111

· 14.5 Environmental hazards:

· Marine pollutant: No

· 14.6 Special precautions for user Warning: Flammable liquids.

· Danger code (Kemler):

· EMS Number: F-E,S-D

· 14.7 Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

· Transport/Additional information:

· ADR

· Limited quantities (LQ) 5L

· Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

· Transport category

· Tunnel restriction code D/E

· Limited quantities (LQ) 5L

Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml · Remarks:

The product is, based on the viscosity, classified in accordance with

IMDG, Part 2, Chapter 2.3, Paragraph 2.3.2.

· UN "Model Regulation": UN1133, ADHESIVES, special provision 640H, 3, III

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · National regulations:

Class	Share in %
1	2,5-10
NK	10-25

- · Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

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

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.

(Contd. on page 8)

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) No 453/2010

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

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Liq. 2: Flammable liquids, Hazard Category 2 Acute Tox. 4: Acute toxicity, Hazard Category 4 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
Carc. 2: Carcinogenicity, Hazard Category 2
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

Sources

Classification corresponds to the current lists of the EEC, is supplemented with data from publications and data from the company.

· Version History

V1 26th March 2015 New Version for CLP Regualtions V2 15th July 2019 Amended logo, added UFI code