PRO-605 FINO TOP PU (COMPONENT A) SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE COMPANY OR UNDERTAKING

1.1 Product Identifier:

PRO-605 Fino Top PU (Component A)

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

Life cycle stages
C/PW Consumer use / Widespread use by professional workers

Sector of Use
SU19 Building and construction work

Process category
PROC19 Manual activities involving hand contact
PROC11 Non-industrial spraying
PROC10 Roller application or brushing

Environmental release category
ERC10a / ERC11a Widespread use of articles with low release

Article category
AC0 Other

Technical function Plating agent

Application of the substance / the preparation
Coating material - Product for an industrial, technical and private use for coating building surfaces.
For all other uses is advised against/ not recommended.

1.3 Details of the supplier of the safety data sheet:

Manufacturer:
EWI Pro Insulation Systems Ltd
Unit 1-2, King Georges Trading Estate, Davis Road, Chessington, England, KT9 1TT
0800 133 7072
info@ewipro.com
technical@ewipro.com

Producer:
KREISEL - Technika Budowlana Sp. z o.o., ul. Szarych Szeregów 23, 60-462 Poznań, Poland
Tel. +48 61 846 79 00
Fax +48 61 846 79 09
sekretariat@kreisel.pl
www.kreisel.pl

1.4 Emergency phone number:

Environment Agency Emergency Hotline: +44/(0)800 80 70 60

Emergency Services (UK): 999

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008
The product is not classified, according to the GB CLP regulation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008
Void

Hazard pictograms
Void

Signal word
Void

Hazard statements
Void

Precautionary statements
Observe the general safety regulations when handling chemicals.

Additional information:
EUH208Contains 1,2-Benzisothiazol-3(2H)-one. May produce an allergic reaction.
Contains the following biocidal active ingredients to protect the product. Please note the information in the safety data sheet and the legal regulations: BIT, ZINC PYRITHIONE

2.3 Other hazards

No further relevant information available.

Results of PBT and vPvB assessment

PBT: This substance/mixture contains no components classified as persistent, bioaccumulative and toxic (PBT) at levels of 0.1% or higher.

vPvB: This substance/mixture contains no components classified as very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Determination of endocrine-disrupting properties
This substance/mixture does not contain components with endocrine disrupting properties according to the criteria of Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in concentrations of 0.1% or higher.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Chemical characteristics: Substances

In the case of this product, it is a mixture.

3.2 Mixtures

Description:
A mixture of the ingredients listed below with safe additives

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Hazardous ingredients:		
CAS: 2634-33-5 EINECS: 220-120-9 Index number: 613-088-00-6 REACH: 01-2120761540-60	1,2-Benzisothiazol-3(2H)-one — < 0.02%  Acute Tox. 2, H330: Fatal if inhaled  Eye Dam. 1, H318: Causes serious eye damage  Aquatic Acute 1, H400; Aquatic Chronic 1, H410: Very toxic to aquatic life with long lasting effects  Acute Tox. 4, H302: Harmful if swallowed Skin Irrit. 2, H315; Skin Sens. 1A, H317: Causes skin irritation; may cause an allergic skin reaction ATE (inhalation): LD_{50} = 450 mg/kg	Specific concentration limits: Skin Sens. 1A; H317: C ≥ 0.036%

Additional information:
Full text of hazard statements can be found in Section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

General advice:
People providing first aid do not require any personal protective equipment. However, first aid providers should avoid contact with the product.

After inhalation:
Move the affected person to fresh air and keep them at rest. If symptoms occur, take the person to a doctor. In case of irregular breathing or respiratory arrest, administer artificial respiration. If unconscious, place and transport the person in the recovery position (stable side position).

After skin contact:
Immediately wash with water and soap and rinse thoroughly. Remove contaminated, soaked clothing immediately. Wash clothing before reuse. Clean shoes before wearing again. In case of persistent skin irritation, consult a doctor.

After eye contact:
Do not rub the eyes, as this may cause additional damage due to mechanical irritation. If necessary, remove contact lenses and rinse the eye with running water while keeping the eyelid open for at least 20 minutes. If possible, use isotonic solutions for eye rinsing (e.g., 0.9% NaCl). Always consult an occupational health physician or an ophthalmologist.

After ingestion:
Do not induce vomiting. If the affected person is conscious, they should rinse the mouth with water and drink a large amount of water. Contact a doctor or a poison control centre.

4.2 Main symptoms and effects, acute and delayed:

Symptoms and effects are described in sections 2 and 11.

4.3 Indications for medical attention and special treatments to be administered immediately:

During consultation with a doctor, show this safety data sheet if possible.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

The mixture is not flammable in supplied or dispersed form. Fire extinguishing measures should be appropriate to the surrounding fire.

5.2 Specific hazards arising from the mixture:

The product is not explosive or flammable and does not support the combustion of other materials. A particular hazard is the risk of slipping caused by spilled or scattered product.

5.3 Advice for firefighters:

No special measures are required. Contaminated water should be collected separately and must not enter the sewage system. Fire residues and contaminated extinguishing water must be disposed of in accordance with regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Follow exposure limitation guidelines and ensure the use of protective equipment (see Section 8).

6.2 Precautions for the environment:

Do not allow the product in undiluted form or in large quantities to enter groundwater, surface water, or sewage systems.

6.3 Methods and material for containment and cleaning:

Collect using liquid-binding materials (e.g. sand, diatomaceous earth, acid-binding materials, universal binders, sawdust). Dispose of collected material in accordance with regulations.

6.4 Reference to other sections:

For safe handling information, see Section 7.
For personal protective equipment, see Section 8.
For disposal considerations, see Section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

Ensure adequate ventilation in the workplace. Avoid contact with eyes and skin. Wear personal protective clothing. Facilities for washing (eye wash and skin washing) should be available. People with a tendency to respiratory illnesses or increased skin sensitivity should not work with this product. Do not eat, drink, or smoke while working with the product.

Information on protection against fire and explosion:

No special measures are required.

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7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and containers:
Keep out of reach of children. Store in tightly closed containers in a cool and dry place.

Guidance on joint storage:
Keep away from food products, beverages, and animal feed.

Further information on storage conditions:
Protect from frost. Protect from moisture and direct sunlight.

Minimum shelf life:
Minimum shelf life (+5°C to 25°C): See information on the packaging.

Storage class: 12

7.3 Specific end uses

No further relevant data available.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:

Journal of Laws 2018, item 1286 – Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on the maximum permissible concentrations and intensities of harmful factors in the work environment.

Components with limit values that require monitoring at the workplace:
The product does not contain significant quantities of substances for which limit values must be monitored under workplace conditions.

Limit values (DNEL)		
2634-33-5 1,2-Benzisothiazol-3(2H)-one		
Dermal (skin):	Systemic – long-term exposure	0.345 mg/kg bw/day (user)
		0.966 mg/kg bw/day (workers)
Inhalation:	Systemic – long-term exposure	1.2 mg/m³ (user)
		6.81 mg/m³ (workers)

PNEC Values	
2634-33-5 1,2-Benzisothiazol-3(2H)-one	
Freshwater:	0.00403 mg/l (no specification)
Marine water:	0.000403 mg/l (no specification)
Soil:	3 mg/kg (no specification)
Sediment (freshwater):	0.0499 mg/kg (no specification)
Sediment (marine water):	0.000499 mg/kg (no specification)
Sewage treatment plant:	1.03 mg/l (no specification)

Components with biological limit values:
None

Additional information:
The lists valid at the time were used as a basis.

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8.2 Exposure Controls

8.2.1 Appropriate engineering controls

No further data available; see Section 7.

8.2.2 Individual protection measures, such as personal protective equipment

General protective and hygiene measures:
Avoid contact of the product with the skin as much as possible. Avoid prolonged and intensive contact with the skin. Avoid contact with eyes. Wash hands before breaks and at the end of work. Keep away from food, beverages, and animal feed. Do not eat, drink, or smoke while working.

Respiratory protection:

Respiratory protection is required only in the event of aerosol or mist formation (e.g. FFP2 mask in accordance with EN 149).

Hand protection:

Protective gloves resistant to chemicals in accordance with EN ISO 374.

The glove material must be impermeable and resistant to the product. Due to the lack of tests, no recommendation can be given for a specific glove material. The selection of glove material should consider breakthrough time, permeability, and degradation. Before each use, check that the gloves comply with regulations. Preventive skin protection by using skin protection agents is recommended. To avoid skin issues, reduce glove-wearing time to the necessary minimum.

Glove material:
Selection depends not only on the material but also on other quality characteristics and varies between manufacturers. Since the product is a mixture of several substances, resistance of glove materials cannot be predicted in advance and must therefore be tested before use.

Breakthrough time of glove material:
Exact breakthrough time must be obtained from the glove manufacturer and observed.

Suitable gloves for prolonged contact:

- Polychloroprene (layer thickness ≥ 0.5 mm; breakthrough time ≥ 480 min)
- Nitrile rubber (≥ 0.35 mm; breakthrough time ≥ 480 min)
- Butyl rubber (≥ 0.5 mm; breakthrough time ≥ 480 min)
- Fluoroelastomer (≥ 0.4 mm; breakthrough time ≥ 480 min)
- Neoprene (≥ 0.5 mm; breakthrough time ≥ 480 min)

Unsuitable gloves:
Gloves made of fabric, leather, or similar materials that are not liquid-resistant.

Eye/face protection:

In case of risk of splashing, use tightly fitting safety goggles in accordance with EN 166.

Body protection:

Protective work clothing.

Risk control measures:
Employees must be trained in the proper use of personal protective equipment to ensure its effectiveness.

8.2.3 Environmental exposure controls

Avoid release into the environment. Dispose of product residues properly or through authorised waste disposal.

Additional guidance for technical systems:
No further data available; see Section 7.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties:

General information:

- Physical state: Liquid
- Appearance (form): Liquid
- Colour: Colourless
- Odour: Characteristic
- Odour threshold: Not relevant for safety
- pH at 20°C: 7 – 9
- Change in state:
    - Melting/freezing point: Not determined
    - Boiling point / initial boiling point and boiling range: Not determined
- Flammability: Material is not flammable
- Flash point: Not applicable
- Oxidising properties: None
- Explosive properties: Product does not present an explosion hazard
- Auto-ignition temperature: Product is not self-igniting
- Vapour pressure: Not determined
- Density / relative density:
- At 20°C: 1 – 1.1 g/cm³
- Particle size: —
- Solubility:
    - Water: Fully miscible
- Partition coefficient (n-octanol/water): Not determined
- Solvent content:
    - Organic solvents: < 12.7%
    - VOC excluding water (EU): < 140.00 g/l
    - VOC including water (EU): < 140.00 g/l
    - VOC content (EU): < 12.700%

9.2 Other information

Information relating to physical hazard classes:

- Explosive substances/mixtures: None
- Flammable gases: None
- Aerosols: None
- Oxidising gases: None
- Gases under pressure: None
- Flammable liquids: None
- Flammable solids: None
- Self-reactive substances and mixtures: None
- Pyrophoric liquids: None
- Pyrophoric solids: None
- Self-heating substances and mixtures: None
- Substances and mixtures which emit flammable gases on contact with water: None
- Oxidising liquids: None
- Oxidising solids: None
- Organic peroxides: None
- Substances corrosive to metals: None
- Desensitised explosives: None

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SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are known.

10.2 Chemical stability:

The product is stable as long as it is properly stored in a dry place.

Thermal decomposition / conditions to avoid:
No decomposition occurs when used as intended.

10.3 Possibility of hazardous reactions:

No hazardous reactions are known.

10.4 Conditions to avoid:

No further relevant data available.

10.5 Incompatible materials:

No further relevant data available.

10.6 Hazardous decomposition products:

No hazardous decomposition products are known.

Additional information:
No further relevant data available.

SECTION 11: TOXICOLOGICAL INFORMATION

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

The product has not been tested. The assessment is based on the properties of individual components.

Acute toxicity:
Based on available data, classification criteria are not met.

Relevant classified LD_{50} / LC_{50} values:		
2634-33-5 1,2-Benzisothiazol-3(2H)-one		
Oral	LD_{50}	450 mg/kg (ATE)
		1,150 mg/kg (mouse)
		597 mg/kg (rat)
Dermal	LD_{50}	2,000 mg/kg (rat)
Inhalation	LC_{50}, (4h)	0.05 mg/l (ATE)

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Further data (on experimental toxicology):
Primary irritant effects:

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

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

Sensitisation:
Prolonged exposure may cause sensitisation through skin contact.
Based on available data, classification criteria are not met.

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

Carcinogenicity:
Based on available data, classification criteria are not met.

Reproductive toxicity:
Based on available data, classification criteria are not met.

STOT – single exposure:
Based on available data, classification criteria are not met.

STOT – repeated exposure:
Based on available data, classification criteria are not met.

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

Practical experience:
No further relevant data available.

General remarks:
No further relevant data available.

11.2 Information on other hazards

Endocrine disrupting properties:
None of the components are listed.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

The product has not been tested. The assessment is based on the properties of individual components.

Aquatic toxicity:	
2634-33-5 1,2-Benzisothiazol-3(2H)-one	
LC_{50} (96h)	1.6 mg/l (fish – Oncorhynchus mykiss, OECD 203)
EC_{50} (48h)	3.27 mg/l (water flea – Daphnia magna)
EC_{50}	1.5 mg/l (water flea – Daphnia)
EC_{50} (72h)	0.11 mg/l (Selenastrum capricornutum, OECD 201)
EC_{50}	2 mg/l (Scenedesmus subspicatus)
EC_{50} (16h)	0.4 mg/l (Pseudomonas putida)
EC_{10} (72h)	0.04 mg/l (Selenastrum capricornutum, OECD 201)
NOEC (21d)	1.2 mg/l (Daphnia magna, OECD 202)
NOEC (28d)	0.21 mg/l (fish – Oncorhynchus mykiss, OECD 215)

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12.2 Persistence and degradability:

Some of the components are biodegradable.

Degree of elimination:	
2634-33-5 1,2-Benzisothiazol-3(2H)-one	
Biological degradation	70% (activated sludge in wastewater treatment plant) (OECD 303 A)
	90% (no specification) (OECD 302 B)

12.3 Bioaccumulative potential:

2634-33-5 1,2-Benzisothiazol-3(2H)-one		
Log Kow	0.7 (no specification)	(OECD 117)

Bioconcentration factor (BCF)		
BCF	6.95 (no specification)	(OECD 305)

12.4 Soil mobility:

No further relevant data available.

12.5 PBT and vPvB assessment results:

PBT: This substance/mixture does not contain components classified as persistent, bioaccumulative, and toxic (PBT) at concentrations of 0.1% or higher.

vPvB: This substance/mixture does not contain components classified as very persistent and very bioaccumulative (vPvB) at concentrations of 0.1% or higher.

12.6 Endocrine disrupting properties

The mixture does not contain substances with endocrine-disrupting properties according to the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7 Other adverse effects

Literature:
No further relevant data available.

Ecotoxic effects:
No further relevant data available.

Behaviour in sewage treatment plants:	
2634-33-5 1,2-Benzisothiazol-3(2H)-one	
EC_{20} (0.5 h)	3.3 mg/l (organisms in activated sludge) (OECD 209)
EC_{30} (3 h)	3.3 mg/l (organisms in activated sludge) (OECD 209)
EC_{50} (3 h)	13 mg/l (organisms in activated sludge) (OECD 209)
OECD 302 B Zahn-Wellens Test	90% (activated sludge organisms)
OECD 303 A Activated Sludge Units	70% (activated sludge organisms)

Further ecological information

General notes:
Water hazard class 2 (self-assessment): harmful to water
Do not allow to enter groundwater, surface water, or sewage systems
Harmful to drinking water even if only small quantities reach the soil

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SECTION 13: DISPOSAL CONSIDERATION

13.1 Waste treatment methods

Recommendation:
Do not dispose of this product with general household or municipal waste.
Dispose of contents and containers in accordance with UK environmental legislation, including:

- Environmental Protection Act 1990
- Waste (England and Wales) Regulations 2011 (as amended)
- Hazardous Waste Regulations 2005 (if applicable)
- Duty of Care requirements for waste handling and transfer

Waste must be handled by a licensed waste carrier and transferred to an authorised waste management facility.

Waste Classification (EWC / LoW codes – UK use):

- 08 01 12 – Waste paints and varnishes (non-hazardous)
- 15 01 04 – Metal packaging

(Final classification must be confirmed by the waste producer based on actual use and contamination.)

Product Residues:
- Do not discharge into drains, watercourses, or soil
- Collect and dispose of via a licensed contractor
- Assess whether waste is hazardous before disposal

Contaminated Packaging

Recommendation:
- Dispose of in accordance with UK waste regulations
- Only completely emptied packaging should be recycled
- Partially filled or contaminated packaging must be treated as waste product

Recommended cleaning method:
- Rinse with water (use detergent if required)
- Prevent washings from entering drainage systems unless permitted

Waste Transfer Requirements:
- Use a Waste Transfer Note (WTN) for non-hazardous waste
- Use a Hazardous Waste Consignment Note if classified as hazardous
- Retain documentation in line with legal requirements

Environmental Precautions:
- Prevent release to the environment
- Spill residues must be collected and disposed of properly
- Harmful to aquatic environments if released in quantity

SECTION 14: TRANSPORT INFORMATION

14.1. UN Number:

ADR, IMDG, IATA: None

14.2. Proper Shipping Name:

ADR, IMDG, IATA: None

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14.3. Transport Hazard Class(es):

ADR, ADN, IMDG, IATA:

Class: None

14.4. Packing Group:

ADR, IMDG, IATA: None

14.5. Environmental Hazards:

Not applicable

14.6. Special Precautions for User:

Not applicable

14.7. Transport in Bulk According to MARPOL Annex II and the IBC Code:

Not applicable

SECTION 15: REGULATORY INFORMATION

15.1 Regulations and legislation on health, safety, and environment specific to the mixture:

General note:
Follow standard precautionary measures when handling chemicals.

Directive 2004/42/EC (VOC Directive)
Category IIA(i): Product contains < 140 g/l VOC (see Section 9)
Product type: Paints and varnishes
Subtype: High-performance two-component coatings for special applications (e.g. floors)
VOC limit value: 140 g/l

Regulation (EU) 2012/18 (Seveso Directive)
Dangerous substances listed – Annex I:
None of the components are listed.

REACH Regulation (EC) No 1907/2006 – Annex XVII:
Additional information regarding entry 78:
The product does not contain synthetic polymer microparticles >0.01% in accordance with EC 2055/2023.

Regulation (EU) No 649/2012 (PIC Regulation):
Not applicable

Annex I – Explosives precursors subject to restrictions:
None of the components are listed.

Annex II – Explosives precursors subject to reporting:
None of the components are listed.

Regulation (EC) No 273/2004 (Drug precursors):
None of the components are listed.

National regulations (example provided in SDS):
Water hazard class:

Class 2 (self-classification): Harmful to water

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Other applicable legislation (EU framework):

- REACH Regulation (EC) No 1907/2006 – Registration, evaluation, authorisation and restriction of chemicals
- Commission Regulation (EU) 878/2020 – Updates to REACH Annex II (SDS requirements)
- CLP Regulation (EC) No 1272/2008 – Classification, labelling and packaging
- ADR Regulations (UK/EU equivalent) – Transport of dangerous goods (not applicable here)
- Act of 13 June 2013 on packaging and packaging waste
- Regulation (EU) No 649/2012 on the export and import of hazardous chemicals
- Act of 28 May 2020 amending the law on chemical substances and mixtures
- Act of 19 August 2011 on the transport of dangerous goods
- Act of 23 January 2020 amending waste legislation
- Regulation of the Minister of Family, Labour and Social Policy (12 June 2018) on maximum permissible concentrations in the workplace
- Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products

15.2 Chemical Safety Assessment:

A chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

Relevant hazard statements (H-phrases):

H302: Harmful if swallowed
H315: Causes skin irritation
H317: May cause an allergic skin reaction
H318: Causes serious eye damage
H330: Fatal if inhaled
H400: Very toxic to aquatic life
H410: Very toxic to aquatic life with long lasting effects

Training advice:
No additional training beyond standard training for handling hazardous substances is required.

Abbreviations and acronyms:
MAK: Maximum workplace concentration
PBT: Persistent, bioaccumulative, and toxic
vPvB: Very persistent and very bioaccumulative
ADR: European agreement concerning the international carriage of dangerous goods by road
IMDG: International Maritime Dangerous Goods Code
IATA: International Air Transport Association
CLP: Classification, labelling and packaging regulation
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service
VOC: Volatile organic compounds
DNEL (Derived No-Effect Level): Exposure level below which no adverse effects are expected (REACH)
PNEC (Predicted No-Effect Concentration): Concentration below which no adverse environmental effects are expected (REACH)
LC_{50} (Lethal Concentration 50%): Concentration at which 50% of test organisms die
LD_{50} (Lethal Dose 50%): Dose at which 50% of test organisms die
PBT: Persistent, bioaccumulative, and toxic
vPvB: Very persistent and very bioaccumulative
ATE (Acute Toxicity Estimate): Estimate of acute toxicity

The information provided in this datasheet is based on the data available to us at the date of its publication.

It is the user's responsibility to take appropriate precautionary measures and apply the recommendations described previously. The information presented in this datasheet should not be considered exhaustive.

Any use of the product not specified in the instructions on the packaging, our website, or other documents provided by our company is entirely the responsibility of the user.

Revision: 1.0
Review Date: 04.06.2026

PRO-605 FINO TOP PU (COMPONENT B) SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE COMPANY OR UNDERTAKING

Product Identifier:

PRO-605 Fino Top PU (Component B)
Unique Formula Identifier (UFI-Code): A2C7-A19M-X00V-PGWP

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

Lifecycle stage:
C / PW – Use by consumers / widespread use by professional workers

Sector of use:
SU19 – Construction and building work

Product category:
PC15 – Products for the treatment of non-metal surfaces

Process categories:
PROC19 – Manual activities involving hand contact with the substance
PROC11 – Non-industrial spraying
PROC10 – Application by roller or brush

Environmental release category:
ERC10a / ERC11a – Wide dispersive use of articles with low release

Article category:
AC0 – Other

Technical function:
Surface coating agent

Use of the substance/mixture:
Coating material – product for industrial, professional, and private use for coating building surfaces.
Any other use is advised against.

1.3 Details of the supplier of the safety data sheet:

Manufacturer:
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info@ewipro.com
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Tel. +48 61 846 79 00
Fax +48 61 846 79 09
sekretariat@kreisel.pl
www.kreisel.pl

1.4 Emergency phone number:
Environment Agency Emergency Hotline: +44/(0)800 80 70 60
Emergency Services (UK): 999

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No. 1272/2008 (CLP):
Acute Tox. 4 (H332): Harmful if inhaled
Eye Dam. 1 (H318): Causes serious eye damage
Skin Sens. 1 (H317): May cause an allergic skin reaction
STOT SE 3 (H335): May cause respiratory irritation

2.2 Description of hazards:

Labelling in accordance with CLP regulation:
The product is classified and labelled according to CLP requirements.

Hazard pictograms:

GHS05 GHS07
GHS05 – Corrosion (serious eye damage)
GHS07 – Exclamation mark (irritant / harmful)

Signal word:
Danger

Hazardous ingredients for labelling:

- Oligomers of hexamethylene diisocyanate (HDI)
- 2-(Tricyclo) ethylhydrogen phosphate
- Hexamethylene diisocyanate (HDI)

Hazard statements (H-statements):
H332: Harmful if inhaled
H318: Causes serious eye damage
H317: May cause an allergic skin reaction
H335: May cause respiratory irritation

Precautionary Statements:
P101: If medical advice is needed, have product container or label at hand
P102: Keep out of reach of children
P271: Use only outdoors or in a well-ventilated area
P280: Wear protective gloves/protective clothing/eye protection
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
P310: Immediately call a POISON CENTRE/doctor
P405: Store locked up
P501: Dispose of contents/container in accordance with regulations

Additional hazard information:
EUH204: Contains isocyanates. May produce an allergic reaction

2.3 Other Hazards

The product contains organic solvents.
Avoid inhalation, skin contact, or ingestion of solvents. Avoid formation of flammable or explosive vapour/air mixtures.
Repeated contact with the skin may cause it to become dry, rough, and cracked.

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Results of PBT and vPvB assessment

PBT: This mixture does not contain substances classified as persistent, bioaccumulative and toxic above 0.1%.

vPvB: This mixture does not contain substances classified as very persistent and very bioaccumulative above 0.1%.

Endocrine disrupting properties:
The mixture does not contain substances with endocrine-disrupting properties in accordance with EU criteria.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable – this is a mixture

3.2 Mixtures

Description:
Mixture of the following components with non-hazardous additives.

Hazardous ingredients:		
CAS: 28182-81-2 NLP: 500-060-2 REACH: 01-2119485796-17	HDI oligomers (Hexamethylene diisocyanate oligomers)  Acute Tox. 4 (H332) Skin Sens. 1 (H317) STOT SE 3 (H335)	< 97%
CAS: 9046-01-9 REACH: ²	2-(Tricyclo) ethyl dihydrogen phosphate  Eye Dam. 1 (H318)  Skin Irrit. 2 (H315) Aquatic Chronic 3 (H412)	< 4%
CAS: 98-94-2 EINECS: 202-715-5 REACH: 01-2119533030-60	Cyclohexyl dimethylamine  Flammable liquid (H226)  Acute Tox. 3 (H301, H311) Acute Tox. 4 (H332)  Skin Corr. 1B (H314) Eye Dam. 1 (H318) Aquatic Chronic 2 (H411)	< 1%
CAS: 822-06-0 EINECS: 212-485-8 Numer indeksu:... 615-011-00-1 REACH: 01-2119457571-37	Hexamethylene diisocyanate (HDI monomer)  Acute Tox. 3 (H331)  Respiratory sensitiser (H334)  Acute Tox. 4 (H302, H312, H332) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) STOT SE 3 (H335) EUH204 (contains isocyanates warning) Specific concentration limits: • Resp. Sens. 1 ≥ 0.5% • Skin Sens. 1 ≥ 0.5%	< 0.1%

Additional notes:
Full hazard wording is listed in Section 16.
Some substances may be exempt from REACH registration depending on volume thresholds.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

General advice:
If symptoms occur, seek medical attention. Do not give anything by mouth to an unconscious person. Place unconscious individuals in the recovery position and ensure medical assistance. Symptoms of poisoning may appear hours later, therefore medical observation for at least 48 hours is recommended.

First aid responders do not require special PPE but should avoid contact with the product.

After inhalation:
Move the affected person to fresh air. Keep them at rest. Seek medical attention if symptoms occur. In case of irregular breathing or respiratory arrest → administer artificial respiration. If unconscious → place in recovery position

After skin contact:
Remove contaminated clothing immediately. Clean affected skin using absorbent material (e.g. cloth or cotton. Wash thoroughly with water and mild detergent. Do not use solvents or thinners. Avoid UV/sunlight exposure (sensitisation risk). Seek medical advice if irritation persists

After eye contact:
Do not rub eyes. Remove contact lenses if possible. Rinse immediately with running water for at least 20 minutes. Use isotonic eye wash if available. Seek medical attention (occupational doctor or eye specialist)

After ingestion:
Do not induce vomiting. If conscious → rinse mouth and drink plenty of water. Seek medical advice or contact a poison centre immediately

4.2 Main symptoms and effects, acute and delayed:

See Sections 2 and 11 (hazards and toxicology)

4.3 Indications for medical attention and special treatments to be administered immediately:

Show the Safety Data Sheet to the doctor where possible

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media:

Suitable:

- CO_2
- Dry powder
- Water spray
- Alcohol-resistant foam

Unsuitable:

- Full water jet (high-pressure stream)

5.2 Specific hazards arising from the mixture:

- Produces dense black smoke in fire
- Combustion may release hazardous decomposition products
- Inhalation of fumes may cause serious health effects

5.3 Advice for firefighters:

- Wear protective clothing
- Remove unprotected persons from danger area

Special protective equipment:
If necessary, use respiratory protection. Depending on fire size, wear full protective clothing.

Additional information:
Cool at-risk containers with water spray
Collect contaminated firefighting water separately – must not enter drains
Dispose of fire residues and contaminated water in accordance with regulations

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Ensure adequate ventilation
Keep ignition sources at a safe distance
Avoid inhalation and contact with skin and eyes
Remove unprotected persons from the hazard area
Follow exposure limits and use PPE (see Section 8)

6.2 Precautions for the environment:

Prevent entry into drains, surface water, and groundwater
If contamination occurs, notify relevant authorities

6.3 Methods and material for containment and cleaning:

Product hardens on contact with air
Allow to cure, then remove mechanically
Avoid dust formation when collecting cured material
Dispose of waste in accordance with regulations

6.4 Reference to other sections:

Safe handling → Section 7
PPE → Section 8
Disposal → Section 13

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

- Ensure good workplace ventilation
- Avoid contact with eyes and skin
- Wear protective clothing
- Provide washing facilities (eye wash + hand washing)
- Individuals with:
    - respiratory issues
    - sensitive skin / allergies
    - should not work with this product
- Do not eat, drink, or smoke during use

Fire and explosion protection:
No special measures required

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7.2 Conditions for safe storage

Storage requirements:

- Keep out of reach of children
- Store in tightly closed original containers
- Store in a cool, well-ventilated area
- Use bunding/containment where necessary

Incompatible storage:
Do not store with oxidising agents

Keep away from:

- Food
- Drinks
- animal feed

Additional storage conditions:

- Protect from frost
- Protect from heat and direct sunlight

Minimum shelf life:
Minimum shelf life (+5°C to +25°C): See information on the packaging

Storage class:
10

Classification according to German Industrial Safety Regulation (BetrSichV):
– (not specified)

7.3 Specific end uses
No further relevant data available

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:

Based on regulation (workplace exposure limits) – applicable principles also relevant for EU/UK workplace exposure control.

Substances with occupational exposure limits:	
Hexamethylene diisocyanate (HDI) (CAS: 822-06-0)	
EU BOELV (Binding Occupational Exposure Limit Values):	Short-term: 0.012 mg/m³ (future tightening to 0.020 mg/m³*)
	Long-term: 0.006 mg/m³ (future: 0.010 mg/m³*)

DNEL (Derived No Effect Levels)		
HDI oligomers (main component)		
Inhalation	long-term (workers)	0.5 mg/m³
Local effects	long-term	1 mg/m³
Cyclohexyl dimethylamine		
Oral	(long-term, users)	0.5 mg/kg bw/day
Dermal	(long-term, workers)	1.4 mg/kg bw/day
Inhalation	(long-term, users)	0.86 mg/m³
	(long-term, workers)	4.94 mg/m³
Short-term inhalation	(workers)	8.3 mg/m³
Hexamethylene diisocyanate (HDI monomer)		
Inhalation	long-term	0.035 mg/m³
	Short-term	0.07 mg/m³

PNEC (Environmental limits)	
HDI oligomers	
Freshwater:	0.127 mg/l
Marine water:	0.013 mg/l
Soil:	53.183 mg/kg
Sediment (freshwater):	266.701 mg/kg
Sediment (marine):	266.670 mg/kg
Sewage treatment plant:	88 mg/l
Cyclohexyl dimethylamine	
Freshwater:	0.035 mg/l
Marine water:	0.001 mg/l
Soil:	0.544 mg/kg
Sediment (freshwater):	2.76 mg/kg
Sediment (marine):	0.276 mg/kg
Sewage treatment plant:	20.6 mg/l
Hexamethylene diisocyanate (HDI)	
Sewage treatment plant:	8.42 mg/l

Biological limit values:
None specified

Additional information:
Lists valid at the time of compilation were used

8.2 Exposure controls:

8.2.1. Appropriate technical controls:

Ensure sufficient ventilation

This can be achieved by:

- Local exhaust ventilation (LEV), or
- General ventilation

If this is not enough to keep vapour concentrations below exposure limits, respiratory protection must be used

8.2.2. Individual protective measures, such as personal protective equipment:

General protective and hygiene measures:

- Keep away from food, drink, and animal feed
- Remove contaminated clothing immediately and clean before reuse

Wash hands:

- before breaks
- at the end of work

Avoid contact with:

- eyes
- skin

Do not eat, drink, or smoke during use

Use preventative skin protection creams

Ensure washing facilities are available

Respiratory protection:

If ventilation is insufficient, use a respirator with gas filter (Type A1 according to EN 14387)

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Hand protection:


Wear chemical-resistant protective gloves (EN ISO 374)

Important notes:

Glove material must be impermeable and resistant

No single material can be universally recommended

Selection depends on:

- breakthrough time
- permeability
- degradation

Check gloves before use

Minimise glove-wearing time where possible

Glove material guidance:

- Selection varies by manufacturer
- Must be tested for compatibility before use

Breakthrough time of glove material:
Exact breakthrough time must be obtained from the glove manufacturer and followed.

Suitable gloves for prolonged contact:

- Polychloroprene (≥ 0.5 mm thickness, ≥ 480 min breakthrough time)
- Nitrile rubber (≥ 0.35 mm, ≥ 480 min)
- Butyl rubber (≥ 0.5 mm, ≥ 480 min)
- Fluoroelastomer (≥ 0.4 mm, ≥ 480 min)
- Neoprene (≥ 0.5 mm, ≥ 480 min)

Unsuitable gloves:

- Fabric gloves
- Leather gloves
- Any material that is not liquid-tight

Eye / face protection:
In case of splash risk, wear tight-fitting safety goggles (EN 166)

Risk management measures:
Workers must be trained in correct use of PPE to ensure effectiveness

8.2.3 Environmental exposure controls

- Avoid release into the environment
- Dispose of product residues properly
- If released into water or sewage → notify relevant authorities
- Do not allow entry into drainage systems

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties:

General information:

- Physical state: Liquid
- Form: Liquid
- Colour: Colourless
- Odour: Characteristic
- Odour threshold: Not relevant for safety
- pH (20°C): 7 – 9

State changes:

- Melting / freezing point: Not determined
- Boiling point (initial): ~150°C
- Flammability: Not classified as flammable
- Flash point: 160°C
- Oxidising properties: None
- Explosive properties: Not determined (no explosion hazard expected)
- Auto-ignition temperature: Product is not self-igniting
- Vapour pressure: Not determined

Density: 1.1 – 1.15 g/cm³ at 20°C

Additional properties:

- Particle size: Not applicable
- Water solubility: Not specified
- Partition coefficient (n-octanol/water): Not determined

VOC (Volatile Organic Compounds):

- VOC (excluding water, EU): 9.9 – 10.35 g/l
- VOC (including water, EU): 9.9 – 10.35 g/l
- VOC content (EU): 0.900%

9.2 Other information

Physical hazard classes:

The product does not fall into the following hazard classes:

- Explosives: None
- Flammable gases: None
- Aerosols: None
- Oxidising gases: None
- Gases under pressure: None
- Flammable liquids: None
- Flammable solids: None
- Self-reactive substances/mixtures: None
- Pyrophoric liquids/solids: None
- Self-heating substances: None
- Substances emitting flammable gases on contact with water: None
- Oxidising liquids/solids: None
- Organic peroxides: None
- Corrosive to metals: None
- Desensitised explosives: None

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SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No specific reactivity hazards identified

No hazardous reactions expected under normal conditions

10.2 Chemical stability:

Product is stable under normal ambient conditions

Stable when stored as recommended

Thermal decomposition / conditions to avoid:

High temperatures may cause formation of toxic gases

10.3 Possibility of hazardous reactions:

Polymerisation may occur, generating heat

Reacts with:

- Alcohols
- Amines
- Water-containing substances
- Acids and bases

10.4 Conditions to avoid:

- Heat
- Direct sunlight

10.5 Incompatible materials:

No detailed list provided, but implied from reactivity:
Moisture / water
Reactive chemicals (amines, alcohols, acids, bases)

10.6 Hazardous decomposition products:

When heated or in fire: → toxic gases may be released

Additional information:

No further relevant data available.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes (CLP Regulation EC 1272/2008)

Acute toxicity:

Harmful if inhaled

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Relevant LD_{50} / LC_{50} values (key toxicological data)
ATE (Acute Toxicity Estimate): • Oral (LD_{50}): 18,333 mg/kg (rat) • Dermal (LD_{50}): 41,111 mg/kg (rat) • Inhalation (LC_{50}, 4h): > 10.8 mg/l
HDI oligomers (main component): • Oral LD_{50}: > 2,500 mg/kg (rat, OECD 423) • Dermal LD_{50}: > 2,000 mg/kg (rat, OECD 402) • Inhalation LC_{50} (4h): 11 mg/l (ATE)
2-(Tricyclo) ethyl dihydrogen phosphate: • Oral LD_{50}: > 2,500 mg/kg (rat, OECD 401)
Cyclohexyl dimethylamine: • Oral LD_{50}: 165 mg/kg (rat, OECD 401) • Dermal LD_{50}: 370 mg/kg (rat, OECD 402) • Inhalation LC_{50} (4h): > 1.7 mg/l (rat, OECD 403)

Hexamethylene diisocyanate (HDI monomer):
• Oral LD_{50}: 959 mg/kg (rat, OECD 401)
• Dermal LD_{50}: 7,000 mg/kg (rat, OECD 402)
• Inhalation:
  ○ ATE: 0.402 mg/l
  ○ LC_{50} (4h): 0.124 mg/l (rat, OECD 403)

Additional experimental toxicology data
(HDI oligomers)
Oral toxicity: • OECD 414 → Negative (rat) • OECD 471 (mutagenicity, bacteria) → Negative • OECD 422 (reproductive toxicity):   ○ NOEL: 0.3 mg/kg bw/day (rat)
Inhalation toxicity: • OECD 413 (90-day inhalation study):   ○ NOAEL: 0.0033 mg/l (rat)
Skin irritation: • OECD 404 → Not corrosive (rabbit)
Eye irritation: • OECD 405 → Not corrosive (rabbit)
Sensitisation: • OECD 406 → Sensitising (guinea pig) • OECD 474 (Mouse): Negative
2-(Tricyclo) ethyl dihydrogen phosphate
Skin irritation (OECD 404): • Causes skin irritation (rabbit)
Eye irritation (OECD 405): • Causes serious eye damage (rat)
Cyclohexyldimethylamine (Cyclohexyl dimethylamine)
Oral toxicity: • OECD 414 → NOAEL: 20 mg/kg bw (rabbit) • OECD 471 (mutagenicity – bacteria): Negative (E. coli) • OECD 473 → Negative (hamster) • OECD 408 (90-day oral study):   ○ NOAEL: 100 mg/kg bw/day (rat) • OECD 422 (reproductive toxicity): • NOAEL: > 1,500 mg/kg bw/day (rat)
Skin effects: • OECD 404 → Corrosive (Category 1B) (rat)
Eye effects: • OECD 405 → Corrosive (Category 1) (rabbit)
Sensitisation: • OECD 429 → Not sensitising (mouse)

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Hexamethylene diisocyanate (HDI)
Oral toxicity: • OECD 471 → Negative (*Salmonella typhimurium*)
Repeated dose toxicity: • OECD 422 → NOEL: 0.3 mg/kg bw/day (rat)
Skin effects: • OECD 404 → **Corrosive** (rabbit)
Eye effects: • OECD 405 → **Corrosive** (rabbit)
Sensitisation: • OECD 406 → **Sensitising** (guinea pig)
Inhalation (chronic exposure): • OECD 453 → NOAEC: 0.005 ppm (rat)
Mutagenicity: • OECD 474 → Negative (mouse)

Primary irritant effects (summary):

Skin: Based on available data, the classification criteria are not met (for the mixture overall)

Eyes: Causes serious eye damage

Sensitisation: Long-term exposure may cause skin sensitisation → May cause allergic skin reaction

Mutagenicity (germ cells): Criteria not met

Carcinogenicity: Criteria not met

Reproductive toxicity: Criteria not met

STOT SE (Specific Target Organ Toxicity – single exposure):
May cause respiratory irritation

STOT RE (Repeated exposure):
Based on available data, classification criteria are not met

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

Practical experience:
No further relevant data available

General remarks:
No further relevant data available

Subacute to chronic toxicity:
Prolonged or repeated contact with the mixture may cause:

- removal of natural skin oils
- non-allergic contact dermatitis
- possible absorption through skin

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SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

Aquatic toxicity
HDI oligomers (main component): • LC_{50} (96h): 100 mg/l (fish – Danio rerio) • EC_{10}: 370 mg/l (algae) • NOEC: 8.880 mg/l (microorganisms, OECD 209) • EC_{50}: 1,000 mg/l (algae) • EL_{50} (48h): 127 mg/l (Daphnia magna) • EC_{50} (3h): 3.828 mg/l (activated sludge, OECD 209)
Cyclohexyl dimethylamine: • LC_{50} (96h): 28 mg/l (fish – Oncorhynchus mykiss, OECD 203) • LC_{50} (48h): 75 mg/l (Daphnia magna, OECD 202) • EC_{50} (72h): 3.5 mg/l (algae, OECD 201) • EC_{50} (16h): 206 mg/l (bacteria – Pseudomonas putida) • EC_{10} (72h): 1.05 mg/l (algae) • EC_{10} (21d): 0.754 mg/l (Daphnia magna)
Hexamethylene diisocyanate (HDI): • LC_{50} (48h): >100 mg/l (fish – Danio rerio) • EC_{50}: 77.4 mg/l (algae – Desmodesmus subspicatus) • EC_{50}: 842 mg/l (activated sludge, OECD 209) • LC_{0} (96h): >82.8 mg/l (fish) • EC_{0} (48h): >89.1 mg/l (aquatic invertebrates) • EC_{50} (48h): >100 mg/l (Daphnia magna) • EC_{50} (72h): >100 mg/l (algae)

12.2 Persistence and degradability:

Some components are biodegradable

Hexamethylene diisocyanate (HDI)

- Biological degradation: Not specified

12.3 Bioaccumulative potential:

Hexamethylene diisocyanate (HDI):

- Log Kow: 57.6 (no specification)

12.4 Soil mobility:

No further relevant data available

12.5 PBT and vPvB assessment results:

PBT: The mixture does not contain substances classified as persistent, bioaccumulative, and toxic at ≥0.1%

vPvB: The mixture does not contain substances classified as very persistent and very bioaccumulative at ≥0.1%

12.6 Endocrine disrupting properties

The mixture does not contain endocrine-disrupting substances according to EU criteria

12.7 Other adverse effects

Literature: No further data available

Ecotoxic effects: No further data available

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Note:

Harmful to fish

Behaviour in sewage treatment plants:

No further relevant data available

Additional ecological guidance

General notes:

Water hazard class 2 (self-classification): harmful to water

Prevent entry into:

- Groundwater
- surface water
- sewage systems

Harmful to drinking water even in small quantities entering soil

SECTION 13: DISPOSAL CONSIDERATION

13.1 Waste treatment methods

Recommendation:

Do not dispose of with household waste

Dispose via:

- designated hazardous waste collection
- or licensed waste disposal contractor

Environmental warning:

- Risk of environmental contamination
- Follow all legal requirements for waste disposal

Handling of contaminated waste:

- Collect waste in sealed containers
- Store temporarily in designated waste storage areas
- Transfer to an authorised disposal company

Important restrictions:

- Do not pour into drains
- Do not dispose with municipal waste
- Untreated product must not be released into the environment

Packaging disposal:

- Empty packaging can be:
  - recovered for energy (incineration) or
  - disposed of at approved landfill sites according to classification
- Properly cleaned packaging may be sent for recycling

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Legal compliance (referenced legislation):

- Waste disposal must follow:
  - National waste laws (example given: Polish Waste Act)
  - EU Waste Framework Directive (2008/98/EC)
  - Packaging Directive (94/62/EC)
  - Waste Catalogue regulations

European Waste Catalogue (EWC codes):

- **08 01 11*** – Waste paint/varnish containing organic solvents or hazardous substances *(hazardous)*
- **15 01 04** – Metal packaging

Hazard properties (HP classification):

- **HP5:** Target organ toxicity / aspiration hazard
- **HP13:** Sensitising

Packaging notes:

- **15 01 04** applies to **emptied packaging**

Uncleaned packaging
Recommendation:

- Dispose of according to regulations
- Only **completely emptied packaging** may be recycled

Recommended cleaning agent:

- Water (with cleaning agents if necessary)

SECTION 14: TRANSPORT INFORMATION

14.1. UN Number:

ADR / IMDG / IATA: None

14.2. Proper Shipping Name:

ADR / IMDG / IATA: None

14.3. Transport Hazard Class(es):

ADR / ADN / IMDG / IATA:

Class: None

14.4. Packing Group:

ADR / IMDG / IATA: None

14.5. Environmental Hazards:

Not applicable

14.6. Special Precautions for User:

Not applicable

14.7. Transport in Bulk According to MARPOL Annex II and the IBC Code:

Not applicable

UN Model Regulations: None

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SECTION 15: REGULATORY INFORMATION

15.1 Regulations and legislation on health, safety, and environment specific to the mixture:

Directive 2004/42/EC (VOC Directive)

- **Product type:** Paints and varnishes
- **Subcategory:** High-performance two-component coatings for special applications (e.g. floors)
- **Water-based coating**
- **VOC limit value:** 140 g/l

Seveso Directive (EU) 2012/18
Listed dangerous substances (Annex I):

- None of the components are listed

REACH Regulation (EC) No 1907/2006 – Annex XVII

- **Restriction conditions:** Entries 3 and 74 apply

Additional information (Entry 78):

- The product does **not contain synthetic polymer microparticles > 0.01%** in accordance with Regulation (EC) 2055/2023

Regulation (EU) No 649/2012 (PIC):

- Not applicable

Explosive precursors regulations:

- **Annex I (restricted precursors):** None
- **Annex II (reportable precursors):** None

Regulation (EC) No 273/2004 (drug precursors):

- None of the components are listed

National regulations (as referenced in SDS)
Employment restrictions:

- Consider restrictions for:
  - **young workers**
  - **pregnant or breastfeeding workers**

Water hazard class:

- **Class 2 (self-assessment): harmful to water**

Other applicable legal regulations (EU framework):

- **REACH Regulation (EC) No 1907/2006**
- **Commission Regulation (EU) 878/2020** (SDS requirements)
- **CLP Regulation (EC) No 1272/2008** (classification, labelling, packaging)
- **ADR regulations** (transport – not applicable for this product)

Additional legislation referenced:

- Act on packaging and packaging waste (2023, as amended)
- Regulation (EU) No 649/2012 (export/import of hazardous chemicals)
- Act of 28 May 2020 on chemical substances and mixtures
- Act of 19 August 2011 on transport of dangerous goods
- Act of 23 January 2020 amending waste legislation
- Regulation on maximum workplace exposure limits (12 June 2018)
- Regulation (EU) No 528/2012 on biocidal products

15.2 Chemical Safety Assessment:

A chemical safety assessment has not been carried out

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SECTION 16: OTHER INFORMATION

Relevant hazard statements (H-statements):

- **H226:** Flammable liquid and vapour
- **H301:** Toxic if swallowed
- **H302:** Harmful if swallowed
- **H311:** Toxic in contact with skin
- **H314:** Causes severe skin burns and eye damage
- **H315:** Causes skin irritation
- **H317:** May cause an allergic skin reaction
- **H318:** Causes serious eye damage
- **H319:** Causes eye irritation
- **H331:** Toxic if inhaled
- **H332:** Harmful if inhaled
- **H334:** May cause allergy or asthma symptoms or breathing difficulties if inhaled
- **H335:** May cause respiratory irritation
- **H411:** Toxic to aquatic life with long-lasting effects
- **H412:** Harmful to aquatic life with long-lasting effects

Supplementary hazard information:

- **EUH204:** Contains isocyanates. May cause an allergic reaction

Classification (CLP Regulation EC No 1272/2008):
The mixture is classified as:

- **Acute toxicity (inhalation)**
- **Serious eye damage / eye irritation**
- **Skin sensitisation**
- **STOT SE (respiratory irritation)**

Classification is based on **calculation methods using component data**

Abbreviations and Acronyms

- **MAK:** Maximum workplace concentration (maximum allowable concentration of a chemical in the workplace – Austria/Germany)
- **PBT:** Persistent, bioaccumulative, and toxic
- **vPvB:** Very persistent and very bioaccumulative
- **ADR:** European Agreement concerning the International Carriage of Dangerous Goods by Road
- **IMDG:** International Maritime Dangerous Goods Code
- **IATA:** International Air Transport Association
- **CLP:** Globally Harmonised System (GHS) for classification and labelling of chemicals
- **EINECS:** European Inventory of Existing Commercial Chemical Substances
- **ELINCS:** European List of Notified Chemical Substances
- **CAS:** Chemical Abstracts Service
- **VOC:** Volatile organic compounds
- **DNEL:** Derived No-Effect Level
- **PNEC:** Predicted No-Effect Concentration
- **LC_{50}:** Lethal concentration for 50% of test organisms
- **LD_{50}:** Lethal dose for 50% of test organisms

EWI Pro Insulation Systems Ltd is registered in England No. 09898159
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Hazard Classification Categories

- **Flam. Liq. 3:** Flammable liquid – Category 3
- **Acute Tox. 3:** Acute toxicity – Category 3
- **Acute Tox. 4:** Acute toxicity – Category 4
- **Skin Corr. 1B:** Skin corrosion – Category 1B
- **Skin Irrit. 2:** Skin irritation – Category 2
- **Eye Dam. 1:** Serious eye damage – Category 1
- **Eye Irrit. 2:** Eye irritation – Category 2
- **Resp. Sens. 1:** Respiratory sensitisation – Category 1
- **Skin Sens. 1:** Skin sensitisation – Category 1
- **STOT SE 3:** Specific target organ toxicity (single exposure) – Category 3
- **Aquatic Chronic 2:** Hazardous to the aquatic environment – long-term Category 2
- **Aquatic Chronic 3:** Hazardous to the aquatic environment – long-term Category 3

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