

Safety Data Sheet

according to Regulation (EC 1272/2008)

SECTION 1- PRODUCT AND COMPANY INFORMATION

Product Name:WINKEL PRO W-UW UNDERWATER REPAIR EPOXY PUTTY (RESIN)Product form:MixtureApplication :Adhesive

Company Identification: Y kpngn'I o dJ

Nku| uut0Pt08'F/75:: 3'Gwunktej gp11 GTOCP[

TEL - 6; "*2+"4473998; 622623 FAX 6; "*2+"4473998; 624

SECTION 2- HAZARDS IDENTIFICATION

<u>2.1 · Classification of the substance or mixture</u> Classification according to Regulation (EC 1272/2008) Adverse physicochemical, human health and environmental effects		
Physical hazards	Not Classified	
Health hazards:	Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317	
Environmental hazards	Eye Dam. 1	
Human health	The product contains an epoxy resin. May cause sensitisation or allergic reactions in sensitive	
	individuals.	

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008[CLP] Pictogram

 \wedge

GHS 07 GHS 09	
Signal word	Warning
Hazard statements	H315 Causes skin irritation.
	H317 May cause an allergic skin reaction.
	H319 Causes serious eye irritation.
	H411 Toxic to aquatic life with long lasting effects.
Precautionary statements	P273 Avoid release to the environment.
	P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
	P302+P352 IF ON SKIN: Wash with plenty of water.
	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing.
	P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
Supplemental label	EUH205 Contains epoxy constituents. May produce an allergic reaction.
information	
Contains	EPOXY RESIN (Number average MW <= 700)
Supplementary	P261 Avoid breathing vapour/ spray.
precautionary	P264 Wash contaminated skin thoroughly after handling.
statements	P272 Contaminated work clothing should not be allowed out of the workplace.
	P321 Specific treatment (see medical advice on this label).
	P332+P313 If skin irritation occurs: Get medical advice/ attention.
	P337+P313 If eye irritation persists: Get medical advice/ attention.

P362+P364 Take off contaminated clothing and wash it before reuse. P391 Collect spillage. P501 Dispose of contents/ container in accordance with national regulations.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3 - COMPOSITION, INFORMATION ON INGREDIENTS 3.1 Substances

Not applicable

<u>3.2. Mixtures</u> Ingredient	Cas Number	Percent
2,2'-[(1methylethylidene)bis		
(4,1phenyleneoxymethylene)]	1675-54-3	45-50%
bisoxirane		
Barium sulfate	7727-43-7	15-25%
Magnesium Silica	14807-96-6	15-25%
Fused Silica	60676-86-0	1-5%

SECTION 4 - FIRST AID MEASURES		
4.1 · Description of first aid measures	<u>}</u>	
General information	Avoid contact with eyes. In case of accident or if you feel unwell, seek medical advice	
	immediately (show the label where possible).	
Inhalation	Move affected person to fresh air at once. Get medical attention if any discomfort continues.	
Ingestion	Rinse mouth thoroughly with water. Do not induce vomiting. If vomiting occurs, the head	
	should be kept low so that vomit does not enter the lungs. Get medical attention.	
Skin contact	Remove affected person from source of contamination. Wash skin thoroughly with soap and	
	water. Get medical attention if irritation persists after washing.	
Eye contact	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15	
	minutes. Get medical attention if irritation persists after washing.	
4.2. Most important symptoms and e General information	The severity of the symptoms described will vary dependent on the concentration and the	
General information	length of exposure.	
4.3 Indication of any immediate med	lical attention and special treatment needed	
<u>4.5. Indication of any ininediate med</u> Notes for the doctor	No specific recommendations. If in doubt, get medical attention promptly.	
Notes for the doctor	No specific recommendations. If in doubt, get medical attention promptry.	
SECTION 5 - FIRE FIGHTING MEASURE		
5.1. Extinguishing media		
Suitable extinguishing media	Extinguish with foam, carbon dioxide or dry powder.	
0 0		
5.2. Special hazards arising from the substance or mixture		
Specific hazards	Irritating gases or vapours.	
5.3. Advice for firefighters		
Protective actions during	Avoid breathing fire gases or vapours. Keep up-wind to avoid fumes. Control run-off water by	
firefighting	containing and keeping it out of sewers and watercourses.	
Special protective equipment	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective	
for firefighters	clothing.	
SECTION 6 - ACCIDENTAL RELEASE MEASURES		
<u>6.1. Personal precautions, protective equipment and emergency procedures</u>		
Personal precautions	Avoid contact with skin and eyes. Wear protective clothing as described in Section 8 of this	
i ersonar precautions	safety data sheet. Provide adequate ventilation.	
	·····	
6.2. Environmental precautions	Avoid the spillage or runoff entering drains, sewers or watercourses. Spillages or uncontrolled	
Environmental precautions	discharges into watercourses must be reported immediately to the Environmental Agency or	
A	other appropriate regulatory body.	

6.3. Methods and material for containment and cleaning upMethods for cleaning upAbsorb spillage with sand or other inert absorbent. Collect and place in suitable waste

	disposal containers and seal securely. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.	
6.4. Reference to other sections Reference to other sections	Wear protective clothing as described in Section 8 of this safety data sheet.	
SECTION 7 - HANDLING AND STO	DRAGE	
7.1. Precautions for safe handling Usage precautions	Use only in well-ventilated areas. Handle and open container with care. Keep away from heat, sparks and open flame. Good personal hygiene procedures should be implemented.	
7.2. Conditions for safe storage, inclu Storage precautions	ding any incompatibilities Store in tightly-closed, original container in a dry, cool and well-ventilated place.	
7.3. Specific end use(s) Specific end use(s)	The identified uses for this product are detailed in Section 1	
SECTION 8 - EXPOSURE CONTRO	DLS / PERSONAL PROTECTION	
8.1. Control parameters Ingredient comments DNEL	WEL = Workplace Exposure Limits 2,2'-[(1methylethylidene)bis(4,1phenyleneoxymethylene)] bisoxirane Workers - Dermal; Short term systemic effects: 8.33 mg/kg/day	
	Workers - Inhalation; Short term systemic effects: 12.25 mg/m ³	
8.2. Exposure controls Protective equipment		
Appropriate engineering controls	Provide adequate general and local exhaust ventilation.	
Eye/face protection	Safety glasses/goggles or face shield advised, particularly when work overhead.	
Hand protection	Wear rubber or plastic coated gloves, however due to its concept of packaging, the material unmixed should not be in contact with skin.	
Skin protection	Wear suitable protective clothing. Wash hand after each work period and before eating.	
Provide eyewash station. Keep away from food, drink and animal feeding stuffs. Good persor hygiene procedures should be implemented. Wash hands and any other contaminated areas o body with soap and water before leaving the work site. Do not eat, drink or smoke when usin product. Change work clothing daily before leaving workplace. Promptly remove any clothin becomes wet or contaminated.		
Respiratory protection	If ventilation is inadequate, suitable respiratory protection must be worn. Respirator selection must be based on exposure levels, the hazards of the product and the safe working limits of the selected respirator. Check that the respirator fits tightly and the filter is changed regularly. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140. Wear a respirator fitted with the following cartridge: Gas filter, type A2.	

SECTION 9 - PHYSICAL DATA		
9.1. Information on basic physical and chemical properties		
Form:	Paste	
Appearance / color:	Gray	
Odor:	LOW	
pH(concentrate):	Not applicable.	
Boiling Point/Range(°C)	Not determined.	
Flash Point(closed, °C)	>250°C	
Autoflammability(°C) Explosive Properties(%) Vapour Pressure (kPa at 20 °C) : Relative Density(at 20°C) Water Solubility:	Not determined. Not known. <0.1 2.8-2.85 Insoluble.	

Fat Solubility:

Not determined.

NOTE:

The physical data represented above are typical values and should not be construed as a specification.

For additional physical data and details on use, please obtain a technical data sheet for this product. SECTION 10- STABILITY AND REACTIVITY DATA Conditions to avoid: Epoxy resins and epoxy resin hardeners react with each other producing heat. They should not be mixed with each other under uncontrolled conditions or in a large mass as the ensuing exothermic reaction may produce heat. Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

<u>11.1. Information on toxicological effects</u>

Skin contact	Irritating to skin. May cause sensitisation by skin contact. The product contains a small amount of sensitising substance. May cause sensitisation or allergic reactions in sensitive individuals.
Eye contact Acute and chronic health hazards	Irritating to eyes. The product contains an epoxy resin. May cause sensitisation or allergic reactions in sensitive indi
Route of entry	Inhalation Ingestion. Skin and/or eye contact

Acute toxicity:

Acute toxicity:
· LD/LC50 values relevant for classification:
1675-54-3 reaction product: 2,2'-[(1methylethylidene)bis
(4,1phenyleneoxymethylene)] bisoxirane
Oral LD50 >2000 mg/kg (rat)
Dermal LD50 >2000 mg/kg (rat)
· Skin corrosion/irritation:
Causes skin irritation.
Rabbit: irritating to the skin (OECD 404)
· Serious eye damage/eye irritation:
Causes serious eye irritation.
Rabbit: irritating to the eye (OECD 405)
· Respiratory or skin sensitization:
May cause an allergic skin reaction.
Mouse (Local Lymph Node Assay): Sensitizing to the skin (OECD 429)
· Germ Cell Mutagenicity: Not classified based on available data.
· Carcinogenicity: Not classified based on available data.
· Reproductive Toxicity: Not classified based on available data.
· Specific Target Organ Toxicity - Single Exposure (STOT SE): Not classified based on available data.
· Specific Target Organ Toxicity - Repeated Exposure (STOT RE):
Not classified based on available data.
· Aspiration Hazard: Not classified based on available data.
· Primary irritant effect:
\cdot on the skin: Irritant to skin and mucous membranes.
\cdot on the eye: Irritating effect.
· Sensitization: Sensitization 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:
Irritant
Skin corrosion/irritation: Causes skin irritation.

Skin corrosion/irritation:	Causes skin irritation.
Serious eye damage/eye irritation:	Causes serious eye irritation.
Respiratory or skin sensitisation	
Skin sensitisation:	May cause an allergic skin reaction
Respiratory sensitisation:	Not classified based on available information.
Germ cell mutagenicity:	Not classified based on available information.
Carcinogenicity:	Not classified based on available information.

Reproductive toxicity:Not classified based on available information.STOT - single exposure:Not classified based on available information.STOT - repeated exposure:Not classified based on available information.Aspiration toxicity:Not classified based on available information.

SECTION 12 - ECOLOGICAL INFORMATION

<u>12.1. Toxicity</u>	The product contains a substance which is harmful to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.
12.2. Persistence and degradability 12.3. Bioaccumulative potential	There are no data on the degradability of this product.
<u>12.4. Mobility in soil</u>	Do not discharge into drains or watercourses or onto the ground.
12.5. Results of PBT and vPvB assess	<u>ment</u> This product does not contain any substances classified as PBT or vPvB.
<u>12.6. Other adverse effects</u>	Not available.

SECTION 13 - DISPOSAL CONSIDERATIONS 13.1. Waste treatment methods

Waste from Residues/Unused Products: Dispose of contents/container in accordance with local, regional, national	
	international regulations as applicable
Contaminated Packaging:	Improper disposal or reuse of this container may be dangerous and illegal.

SECTION 14 - TRANSPORT INFORMATION

14.1. International Transport Regulations

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE: Shipping name: None Allocated

Simpping nume.	1 tone 1 moeuted
UN No:	None Allocated
Hazchem Code:	None Allocated
Pkg Group	None Allocated
DG Class:	None Allocated
Subsidiary Risk(s):	None Allocated
EPG:	None Allocated

Classification: Land transport ADR/RID/GGVS/GGVE: Not considered as dangerous goods. Inland navigation AND/ADNR: Not considered as dangerous good Transport by sea IMDG/GGVSea: Not considered as dangerous good Air transport ICAO/IATA: Not considered as dangerous good

SECTION 15 - REGULATORY INFORMATION

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

<u>15.2. Chemical safety assessment</u> No chemical safety assessment has been carried out.

SECTION 16 - OTHER INFORMATION

Also refer to the safety data sheet(s) for information on other components of this product.			
Waste Disposal:	Dispose in accordance with Federal, State/Provincial and local regulations.		
Date Prepared:	2023-JUNE		
Prepare by:	Technical Service Department		



Safety Data Sheet

according to Regulation (EC 1272/2008)

SECTION 1- PRODUCT AND COMPANY INFORMATION

 Product Name:
 WINKEL PRO W-UW UNDERWATER REPAIR EPOXY PUTTY (HARDENER)

 Product form:
 Mixture

 Application :
 Adhesive

Company Identification: Y kpngnl o dJ

Nku| uvt0Pt08'F/75:: 3'Gwunktej gp1I GTOCP[

TEL - 6; '*2+'4473998; 622623 FAX 6; '*2+'4473998; 624

SECTION 2- HAZARDS IDENTIFICATION

2.1· Classification of the substance or mixture Classification according to Regulation (EC 1272/2008) Adverse physicochemical, human health and environmental effects Physical hazards Not Classified Health hazards: Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Environmental hazards Aquatic Chronic 2 - H411 Human health The product contains an polyaminoamide. May cause sensitisation or allergic reactions in sensitive individuals. 2.2 Label elements Labelling according to Regulation (EC) No. 1272/2008/CLPJ Pictogram Pictogram				
GHS 05 GHS 09				
Signal word	Danger			
Hazard statements	H315 Causes skin irritation. H318 Causes serious eye damage. H411 Toxic to aquatic life with long lasting effects.			
Precautionary statements	 P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P302+P352 IF ON SKIN: Wash with plenty of water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. 			
Contains	Polyaminoamide			
Supplementary precautionary statements	 P261 Avoid breathing vapour/ spray. P264 Wash contaminated skin thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P321 Specific treatment (see medical advice on this label). P332+P313 If skin irritation occurs: Get medical advice/ attention. P337+P313 If eye irritation persists: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse. P391 Collect spillage. P501 Dispose of contents/ container in accordance with national regulations. 			
2.3. Other hazards	This product does not contain any substances classified as PBT or vPvB.			

SECTION 3 - COMPOSITION, INFORMATION ON INGREDIENTS 3.1 Substances

Not applicable

3.2. Mixtures				
Ingredient	Cas Number	Percent		
Barium sulfate	7727-43-7	10-15%		
Fused Silica	60676-86-0	10-20%		
Magnesium Silica	14807-96-6	10-15%		
Polyaminoamide	68082-29-1	45-55%		
SECTION 4 - FIRST AID MEASURES				
4.1 · Description of first aid measures				
General information	Avoid contact with eyes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).			
Inhalation		nce. Get medical attention if any discomfort continues.		
Ingestion		Do not induce vomiting. If vomiting occurs, the head		
	•••	not enter the lungs. Get medical attention.		
Skin contact	Remove affected person from source of	of contamination. Wash skin thoroughly with soap and		
	water. Get medical attention if irritation			
Eye contact	Remove any contact lenses and open e minutes. Get medical attention if irrita	expelids wide apart. Continue to rinse for at least 15		
		1		
4.2. Most important symptoms and effects, both				
General information		ed will vary dependent on the concentration and the		
	length of exposure.			
<u>4.3. Indication of any immediate medical attention</u> Notes for the doctor	n and special treatment needed No specific recommendations. If in do	whet get medical attention promptly		
Notes for the doctor	No specific recommendations. If in de	suot, get medical attention promptly.		
SECTION 5 - FIRE FIGHTING MEASURE				
5.1. Extinguishing media				
Suitable extinguishing media	Extinguish with foam, carbon dioxide	or dry powder.		
5.2. Special hazards arising from the substance or mixture Specific hazards Irritating gases or vapours.				
<u>5.3. Advice for firefighters</u> Protective actions during firefighting	Avoid breathing fire gases or vapours. Keep up-wind to avoid fumes. Control run-off water by containing and keeping it out of sewers and watercourses.			
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.			
SECTION 6 - ACCIDENTAL RELEASE MEAS	SURES			
6.1. Personal precautions, protective equipment				
Personal precautions	Avoid contact with skin and eyes. We safety data sheet. Provide adequate ve	ar protective clothing as described in Section 8 of this ntilation.		
<u>6.2. Environmental precautions</u> Environmental precautions		trains, sewers or watercourses. Spillages or uncontrolled reported immediately to the Environmental Agency or		
6.3. Methods and material for containment and o	cleaning up			
Methods for cleaning up	Absorb spillage with sand or other ine	rt absorbent. Collect and place in suitable waste Containers with collected spillage must be properly ard symbol.		
<u>6.4. Reference to other sections</u> Reference to other sections	Wear protective clothing as described	in Section 8 of this safety data sheet.		
SECTION 7 - HANDLING AND STORAGE				
7.1. Precautions for safe handling Usage precautions	•	dle and open container with care. Keep away from rsonal hygiene procedures should be implemented.		

7.2. Conditions for safe storage, including any incompatibilities

7.2. Conditions for safe storage, including any incompatibilities				
Storage precautions	Store in tightly-closed, original container in a dry, cool and well-ventilated place. Store away			
7.3. Specific end use(s)				
Specific end use(s)	The identified uses for this product are detailed in Section 1			
SECTION 8 - EXPOSURE CONTROLS / PERS	SONAL PROTECTION			
8.1. Control parameters				
Ingredient comments	WEL = Workplace Exposure Limits			
	Polyaminoamide			
DNEL	Workers - Dermal; Short term systemic effects:-			
	Workers - Inhalation; Short term systemic effects: -			
8.2. Exposure controls				
Protective equipment				
A november of a single series				
Appropriate engineering controls	Provide adequate general and local exhaust ventilation.			
controls				
Eye/face protection	Safety glasses/goggles or face shield advised, particularly when work overhead.			
Lycrace protection	Surely gausses goggles of the shield ad med, particularly when work overhead			
	Wear rubber or plastic coated gloves, however due to its concept of packaging, the material			
Hand protection	unmixed should not be in contact with skin.			
	unnixed should not be in contact with skin.			
Skin protection	Wear suitable protective clothing. Wash hand after each work period and before eating.			
	Provide eyewash station. Keep away from food, drink and animal feeding stuffs. Good personal			
H	hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Do not eat, drink or smoke when using			
Hygiene measures				
	the product. Change work clothing daily before leaving workplace. Promptly remove any clothing that becomes wet or contaminated.			
	clouning that becomes wet of containinated.			
	If ventilation is inadequate, suitable respiratory protection must be worn. Respirator selection			
	must			
	be based on exposure levels, the hazards of the product and the safe working limits of the			
Respiratory protection	selected respirator. Check that the respirator fits tightly and the filter is changed regularly. Half			
	mask and quarter mask respirators with replaceable filter cartridges should comply with			
	European Standard EN140. Wear a respirator fitted with the following cartridge: Gas filter, type			
	A2.			

SECTION 9 - PHYSICAL DATA		
9.1. Information on basic physical and chemical properties		
Form:	Paste	
Appearance / color:	Light gray	
Odor:	Amine.	
Melting Point/Range(°C)	Not applicable.	
Flash Point(closed, °C)	>230	
Oxidising Propertise:	Not determined.	
Vapour Pressure (kPa at 20 °C) : 0.02		
Relative Density(at 20°C)	0.98-1.03	
Water Solubility:	Miscible.	
Partition Coefficient(no-	Not determined.	
ctanol/water):		
NOTE:		

The physical data represented above are typical values and should not be construed as a specification.

For additional physical data and details on use, please obtain a technical data sheet for this product.

SECTION 10- STABILITY AND REACTIVITY DATA

Conditions to avoid:

Epoxy resins and epoxy resin hardeners react with each other producing heat. They should not be mixed with each other under uncontrolled conditions or in a large mass as the ensuing exothermic reaction may produce heat. Possibility of hazardous reactions: occur. SECTION 11 - TOXICOLOGICAL INFORMATION Skin Contact: Corrosive-causes .May cause senstisation. Eye Contact: Causes irreversible damage to eye tissue if not removed promptly. By Inhalation: May cause respiratory irritation. By Ingestion: May cause irritation of mouth, throat and digestive tract. Chronic: Prolonged skin contact can result in chemical burns. **SECTION 12 - ECOLOGICAL INFORMATION** 12.1. Toxicity The product contains a substance which is harmful to aquatic organisms and which may 12.2. Persistence and degradability There are no data on the degradability of this product. 12.3. Bioaccumulative potential No data available on bioaccumulation. 12.4. Mobility in soil Do not discharge into drains or watercourses or onto the ground. 12.5. Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB. 12.6. Other adverse effects Not available. SECTION 13 - DISPOSAL CONSIDERATIONS 13.1. Waste treatment methods Waste from Residues/Unused Products: Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

Under normal conditions of storage and use, hazardous reactions will not

Improper disposal or reuse of this container may be dangerous and illegal.

Contaminated Packaging:

SECTION 14 - TRANSPORT INFORMATION

14.1. International Transport Regulations

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE:			
Shipping name:	None Allocated		
UN No:	None Allocated		
Hazchem Code:	None Allocated		
Pkg Group	None Allocated		
DG Class:	None Allocated		
Subsidiary Risk(s):	None Allocated		
EPG:	None Allocated		

Classification: Land transport ADR/RID/GGVS/GGVE: Not considered as dangerous goods. Inland navigation AND/ADNR: Not considered as dangerous good Transport by sea IMDG/GGVSea: Not considered as dangerous good Air transport ICAO/IATA: Not considered as dangerous good

SECTION 15 - REGULATORY INFORMATION

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

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16 - OTHER INFORMATION

Also refer to the safety data sheet(s) for information on other components of this product.Waste Disposal:Dispose in accordance with Federal, State/Provincial and local regulations.Date Prepared:2023-JUNEPrepare by:Technical Service Department