



SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION

1.1 Product Identifier

Product number and name **60211-H PRATLEY PUTTY (Standard Setting) HARDENER, 50g per bubble pack**
Product type Adhesive

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

Relevant identified uses Consumer use
Uses advised against No specific uses advised against.
Avoid eye contact, inhalation of vapours or ingestion.

1.3 Details of Supplier of Safety Data Sheet

Manufactured by	Pratley Polymers Manufacturing (Proprietary) Ltd 14 Jackson Street, Fectoria, Krugersdorp, 1745 South Africa Tel: +27-11-955-2190 Fax: +27-11-955-3918 www.pratleyadhesives.com
Supplied in South Africa by	Pratley (Proprietary) Ltd 14 Jackson Street, Fectoria, Krugersdorp, 1745 South Africa Tel: +27-11-955-2190 Fax: +27-11-955-3918 sales@pratley.com www.pratleyadhesives.com
Supplied outside South Africa by	Pratley Exporting (Proprietary) Ltd 14 Jackson Street, Fectoria, Krugersdorp, 1745 South Africa Tel: +27-11-955-2190 Fax: +27-11-955-3918 exports@pratley.com www.pratleyadhesives.com

1.4 Emergency Telephone Number

South Africa +27-11-955-2190 during office hours
10117 All emergencies
+27-21-689-5227 Poisons Information Centre

Europe 112 All emergencies

For detailed poison information, the national poison centre, if available, should be contacted.

United Kingdom 999 All emergencies

111 (NHS, England, NHS 24, Scotland or NHS Direct, Wales),
0808 808 8000 (Lifeline, N. Ireland)
01 809 2166 (National Poison Information Centre, Republic of Ireland)

Australia 000 All emergencies

13 11 26 NSW Poison Information Centre

New Zealand 111 All emergencies

0800 764 766 National Poisons Centre (poisons@otago.ac.nz)

Americas 911 All emergencies

1-800-222-1222 Poisons Help (PoisonHelp.org)

SECTION 2 – HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 Classification

Class	Category	Hazard Code and Statement	
Skin Corrosion/Irritation	2	H315	Causes skin irritation.
Eye Corrosion/Irritation	1	H318	Causes serious eye damage.
Skin Sensitizer	1	H317	May cause an allergic skin reaction.
Aquatic Toxicity - Acute	2	H401	Toxic to aquatic life.
Aquatic Toxicity - Chronic	2	H411	Toxic to aquatic life with long lasting effects.

2.1.2 Additional Information

None

2.2 Label Elements

Hazard Pictogram(s),
Signal Word and
Ingredients



DANGER

Polyamide resin
Polymercaptan
TDMA-Methylphenol
TETA

The technical name has been replaced on the label by a name / identification that is easier for a consumer to identify. See section 16 for a comparison of the technical and alternative names used.

Hazard Statements

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 **Causes serious eye damage.**
H401 **Toxic to aquatic life.**
H411 Toxic to aquatic life with long lasting effects.

Precautionary
Statements

P101 **If medical advice is needed, have product container or label at hand.**
P102 **Keep out of reach of children.**
P103 **Read label before use.**

- P261 Avoid breathing vapours.
- P264 Wash hands thoroughly after handling.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P280 **Wear protective gloves/eye protection.**
- P302+P352 IF ON SKIN: Wash with plenty of soap and 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.
- P310 Immediately call a POISON CENTER/doctor.
- P321 Specific treatment (see..on this label)
- P333+P313 **If skin irritation or rash occurs: Get medical advice/attention.**
- P362+P364 Take off contaminated clothing and wash before reuse.
- P391 Collect spillage.
- P501 **Dispose of contents/container in accordance with local regulations.**

Only the hazard statements and Precautionary statements in bold text have been included on the label in accordance with the allowed omissions set out in the ECHA Guidance on Labelling and Packaging.

2.3 Other Hazards

None known.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous Ingredients	% [weight]	CAS No. EC No. Index No.	SCL, M- Factors, ATE	Classification	H / EUH Code(s)
Non-hazardous materials	>83				
Fatty acids, C18-unsaturated, dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	10 - 13	68082-29-1 500-191-5 -		Skin Irritation – 2 Eye Damage – 1 Skin Sensitizer – 1A Aquatic Toxicity, chronic – 2	H315 Causes skin irritation. H318 Causes serious eye damage. H317 – May cause an allergic skin reaction. H411 Toxic to aquatic life with long lasting effects.
2,4,6-tris(dimethylaminomethyl) phenol	<3.0	90-72-2 202-013-9 603-069-00-0		Acute Toxicity, oral – 4 Skin Irritation – 2 Eye Irritation – 2	H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation.
Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether	<1.0	72244-98-5 615-735-8 -		Skin Sensitizer – 1 Aquatic Toxicity, chronic - 3	H317 May cause an allergic skin reaction. H412 Harmful to aquatic life with long lasting effects.

The information provided is correct to the best of our knowledge. The information is designed only as a guide and is not considered as a warranty. We do not accept any liability arising from the use of information provided herein.

triethylenetetramine	<0.2	112-24-3 203-950-6 612-059-00-5	Acute Toxicity, oral – 4 Acute Toxicity, dermal - 4 Skin Corrosion – 1B Eye Damage – 1 Skin Sensitizer – 1 Aquatic Toxicity, chronic - 3	H302 Harmful if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H317 May cause an allergic skin reaction. H412 Harmful to aquatic life with long lasting effects.
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The product contains <4% titanium dioxide not in powder form.

SECTION 4 – FIRST AID MEASURES

4.1 Description of First Aid Measures

SKIN Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

EYE Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

INHALATION Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as collar, tie, belt or waistband.

INGESTION Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in the recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as collar, tie, belt, or waistband.

4.2 Most important symptoms and effects, both acute and delayed

SKIN Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

EYE No known significant effect or critical hazards.

INHALATION Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

INGESTION No known significant effect or critical hazards.

SECTION 5 – FIRE FIGHTING MEASURES

5.1 Extinguishing Media

SUITABLE Water fog, foam, extinguishing powder, or carbon dioxide.

NOT SUITABLE Do not use water jet.

5.2 Special Hazards arising from the Substance or Mixture

HAZARDS FROM THE SUBSTANCE / MIXTURE Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

HAZARDOUS THERMAL DECOMPOSITION PRODUCTS No specific data.

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5.3 Advice for Firefighters

SPECIAL PRECAUTIONS FOR FIREFIGHTERS Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not walk through spilled material. Avoid breathing vapour or mist. Provide adequate ventilation.

6.1.1 For non-emergency personnel

Wear appropriate personal protective equipment. Collect and dispose of as soon as possible.

SKIN General purpose non-permeable gloves and overalls.

FACE / EYES Safety goggles.

CLOTHING No special requirements. Wash clothing thoroughly if contaminated.

VENTILATION If ventilation is poor use a self-contained breathing apparatus suitable for organic vapours.

6.1.2 For emergency personnel

Wear appropriate personal protective equipment. Collect and dispose of as soon as possible.

SKIN General purpose non-permeable gloves and overalls.

FACE / EYES Safety goggles.

CLOTHING No special requirements. Wash clothing thoroughly if contaminated.

VENTILATION If ventilation is poor use a self-contained breathing apparatus suitable for organic vapours.

6.2 Environmental Precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, air). May be harmful to the environment if released in large quantities.

6.3 Method and material for containment and cleaning up

6.3.1 Containment procedure

Due to the viscous nature of the material, containment is not usually necessary. If released into water, immediate collection by a suitably sized scoop is needed.

6.3.2 Clean-up procedure

Small amounts should be cured by mixing the hardener and resin together and then disposed of in accordance with local regulations.

Large amounts would need to be incinerated in accordance with local regulations.

6.3.3 Additional Information

See SECTION 13 for disposal considerations.

6.4 Reference to other sections

See SECTION 13 for disposal considerations.

SECTION 7 – HANDLING AND STORAGE

7.1 Precautions for Safe handling

7.1.1 Recommendations for safe handling and storage

Do not eat, drink or smoke where this material is stored. Avoid release to the environment. Keep in the original container and keep tightly closed when not in use. Empty containers retain product residue and may be hazardous. Do not reuse containers.

7.1.2 Advice on general occupational hygiene

Put on appropriate personal protective equipment (see SECTION 8). Do not eat, drink, or smoke when working with this material. Wash hands and face before eating, drinking, or smoking. Persons with a history of skin sensitization problems should not use this product. Do not get in eyes. Avoid skin contact as much as possible. Do not ingest. Avoid breathing vapours.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in the original container protected from sources of ignition or direct sunlight in a dry, cool (10-40°C) and well-ventilated area, away from incompatible materials, food and drink. Keep container tightly closed and sealed until ready to use. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Incompatible Materials: Strong oxidizing agents and acids.

Packaging Material: Use original container.

7.3 Specific end use(s)

Not applicable.

SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Control Parameters

The DNEL (Derived No-Effect Level) for humans by inhalation, ingestion and dermal routes of exposure and the PNEC (Predicted No-Effect Concentration) for environmental exposure given below are not intended to be directly used for setting workplace or general population exposure limits. Due to differences in calculation methodology the DNEL will tend to be lower (sometimes significantly) than any corresponding health based-OEL for that chemical substance. Further, although DNELs (and PNEC's) are an indication of setting risk measures, it should be recognized that these limits do not have the same regulatory application as officially endorsed government OELs.

DNEL - WORKERS

INHALATION				DERMAL			
Local		Systemic		Local		Systemic	
ST	LT	ST	LT	ST	LT	ST	LT
Fatty acids, C18-unsaturated, dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine (68082-29-1)							
no hazard identified	no hazard identified	no hazard identified	49,3 mg/m ³ (repeated dose)	High hazard	High hazard	no hazard identified	14 mg/kg bw/day (repeated dose)
2,4,6-tris(dimethylaminomethyl) phenol (90-72-2)							
Medium hazard (no threshold derived)	Medium hazard (no threshold derived)	2.1 mg/m ³ (repeated dose)	0.53 mg/m ³ (repeated dose)	Medium hazard (no threshold derived)	Medium hazard (no threshold derived)	0,6 mg/kg bw/day (repeated dose)	0,15 mg/kg bw/day (repeated dose)

The information provided is correct to the best of our knowledge. The information is designed only as a guide and is not considered as a warranty. We do not accept any liability arising from the use of information provided herein.

Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropylether (72244-98-5) <i>Information for a similar material</i>							
no data available	no data available	no data available	22mg/m ³ (repeated dose)	no data available	no data available	no data available	2.7 mg/kg bw/day
3,6-diazaoctanethylenediamin triethylenetetramine (112-24-3)							
no data available	no data available	5380 mg/m ³ (acute)	1 mg/m ³ (repeated dose)	no data available	28 µg/cm ²	no data available	570 µg/kg bw/day (repeated dose)

DNEL – GENERAL PUBLIC

INHALATION				DERMAL				ORAL	
Local		Systemic		Local		Systemic		Systemic	
ST	LT	ST	LT	ST	LT	ST	LT	ST	LT
Fatty acids, C18-unsaturated, dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine (68082-29-1)									
No hazard identified.	No hazard identified.	No hazard identified.	8,7 mg/m ³ (repeated dose)	High hazard. No threshold derived.	High hazard. No threshold derived.	No hazard identified.	5 mg/kg bw/day (repeated dose)	No hazard identified.	5 mg/kg bw/day (repeated dose)
2,4,6-tris(dimethylaminomethyl) phenol (90-72-2)									
Medium hazard (no threshold derived)	Medium hazard (no threshold derived)	0,13 mg/m ³ (repeated dose)	0,13 mg/m ³ (repeated dose)	Medium hazard (no threshold derived)	Medium hazard (no threshold derived)	0,075 mg/kg bw/day (repeated dose)	0,075 mg/kg bw/day (repeated dose)	No hazard identified	0,075 mg/kg bw/day (repeated dose)
Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropylether (72244-98-5) <i>Information for a similar material</i>									
no data available	no data available	no data available	6.52 mg/m ³ (repeated dose)	no data available	no data available	no data available	1.61 mg/kg bw/day	no data available	1.9 mg/kg bw/day (repeated dose)
3,6-diazaoctanethylenediamin triethylenetetramine (112-24-3)									
no data available	no data available	1600 mg/m ³ (acute)	290 µg/m ³ (repeated dose)	1 mg/cm ²	430 µg/cm ²	8 mg/kg bw/day (acute)	250 µg/kg bw/day (repeated dose)	20 mg/kg bw/day (acute)	410 µg/kg bw/day (repeated dose)

PNEC

Fresh water	Freshwater sediments	Marine water	Marine water sediments	Food chain	Sewage treatment	Soil (agricultural)	Air	Intermittent releases
Fatty acids, C18-unsaturated, dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine (68082-29-1)								
2,2 µg/L	2200000 mg/kg sediment dw	0,22 µg/L	220000 mg/kg sediment dw	no potential for bio-accumulation	3.84 mg/L	440000 mg/kg soil dw	No hazard identified	no data available
2,4,6-tris(dimethylaminomethyl) phenol (90-72-2)								
0,046 mg/L	0,262 mg/kg dw	0,005 mg/L	0,026 mg/kg dw	no potential for bio-accumulation	0,2 mg/L	0,025 mg/kg dw	no hazard identified	0,46 mg/L
Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropylether (72244-98-5) <i>Information for a similar material</i>								
70 µg/L	322 µg/kg dw	7 µg/L	32 µg/kg dw	no potential for bio-accumulation	10 mg/L	23 µg/kg dw	no hazard identified	120 µg/L

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3,6-diazaoctanethylenediamin triethylenetetramine (112-24-3)								
no data available	no data available	no data available	no data available	no data available	no data available	no data available	no data available	no data available

8.2 Exposure Controls

8.2.1 Appropriate engineering controls

None required. Use in a well-ventilated area. If ventilation is poor use a self-contained breathing apparatus.

8.2.2 Personal Protection

Skin General purpose non-permeable gloves and overalls.

Face / Eye Avoid eye contact. Do not touch or rub eyes after contact with product. Wash hands thoroughly with soap and water first.

Inhalation This is unlikely due to the nature of the material. Use outdoors or in a well-ventilated area.

Ingestion Do not eat, drink, or smoke while working with this product. Wash hands thoroughly with soap and water after using this product. Keep away from children.

Thermal None required when used as instructed.

Other Always wash hands with soap and water after use.

8.2.3 Environmental Protection

Avoid release to the environment. Contain and dispose of in accordance with local regulations.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on physical and chemical properties

Physical State	Soft rectangular stick
Colour	White to Light Grey
Odour	Like ammonia
Melting point / Freezing point (°C)	-60°C for polyamide resin portion and -20°C for TDMA-Methylphenol portion. No other data available.
Boiling point, initial and range (°C)	400°C for polyamide resin portion, 156°C for TDMA-Methylphenol portion, and 274.6°C for TETA portion. No other data available.
Flammability	Not flammable.
Explosion / Flammability limits	No data available.
Flash point (°C), closed cup	149°C for TDMA-Methylphenol portion and 118°C for TETA portion. No other data available.
Auto-ignition temperature (°C)	No data available.
Decomposition temperature (°C)	No data available.
pH	No data available.
Kinematic Viscosity (at 23°C)	No data available.
Solubility	40mg/L for polyamide resin portion and 850g/L for TDMA-Methylphenol portion. No other data available.
Partition co-efficient : n-octanol / water	Log Kow 12.31 @25°C for polyamide resin portion and -0.66 @ 21.5°C for TDMA-Methylphenol portion. No other data available.
Vapour pressure	No data available.
Density and/or Relative density (at 23°C)	2.0 g/cm ³
Relative Vapour density	No data available.

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Particle characteristics No data available.

9.2 Other information

9.2.1 Information with regards to physical Hazard Classes

No additional information available.

9.2.2 Other Safety Characteristics

No additional information available.

SECTION 10 – STABILITY AND REACTIVITY

10.1 Reactivity

Reacts with strong oxidising agents and acids.

10.2 Chemical Stability

Stable under recommended storage conditions.

10.3 Possibility of Hazardous Reactions

Hazardous reactions may occur under certain conditions of storage or use.

10.4 Conditions to Avoid

Exposure to elevated temperatures can cause material to decompose. Reaction with carbon dioxide may form an amine carbamate. Product absorbs carbon dioxide from the air.

10.5 Incompatible Materials

Strong oxidizing agents and acids.

10.6 Hazardous Decomposition Products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11 – TOXOLOGICAL INFORMATION

11.1 Information on Hazard Classes

Ingredient (CAS No.)	Toxicological effect	Findings
Fatty acids, C18-unsaturated, dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine (68082-29-1)	Acute Toxicity - oral	NOAEL LD ₅₀ : >2000 mg/kg bw
	Acute Toxicity - dermal	NOAEL LD ₅₀ : >2000 mg/kg bw
	Acute Toxicity - inhalation	No data available.
	Skin Corrosion/ Irritation	Adverse effects observed – irritating.
	Serious Eye Damage/ Irritation	Adverse effects observed – irreversible damage.
	Skin Sensitizer	Adverse effects observed – sensitizing.

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	Respiratory Sensitizer	No data available.
	Germ Cell Mutagenicity	No data available.
	Carcinogenicity	No data available.
	Reproductive Toxicity	NOAEL: 1000mg/kg bw/day (subacute, rat)
	Developmental / Teratogenic Toxicity	NOAEL: 35 mg/kg bw/day (subacute, rabbit)
	STOT - Single Exposure	No data available.
	STOT - Repeated Exposure	NOAEL (oral): 1000mg/kg bw/day (subacute, rat)
	Aspiration Hazard	No data available.
2,4,6-tris(dimethylaminomethyl) phenol (90-72-2)	Acute Toxicity - oral	NOAEL LD ₅₀ (rabbit): 2169mg/kg bw
	Acute Toxicity - dermal	No data available.
	Acute Toxicity - inhalation	No data available.
	Skin Corrosion/ Irritation	Adverse effects observed – irritating.
	Serious Eye Damage/ Irritation	Adverse effects observed – irritating.
	Skin Sensitizer	No adverse effects observed – not sensitising.
	Respiratory Sensitizer	No data available.
	Germ Cell Mutagenicity	InVitro: No adverse effect observed (negative) InVivo: No data available
	Carcinogenicity	No data available.
	Reproductive Toxicity	NOAEL, oral: 150 mg/kg bw/day (subchronic, rat)
	Developmental / Teratogenic Toxicity	No data available.
	STOT - Single Exposure	No data available.
	STOT - Repeated Exposure	NOAEL, oral (systemic): 15 mg/kg bw/day (subchronic, rat)
	Aspiration Hazard	No data available.
Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-	Acute Toxicity - oral	LD ₅₀ 2600 mg/kg bw/day as per OECD 401, rat.
	Acute Toxicity - dermal	LD ₅₀ >10200 mg/kg bw/day as per OECD 402, rabbit.
	Acute Toxicity - inhalation	LC ₅₀ (rat) >0,1mg/L air.

mercaptopropylether (72244-98-5)	Skin Corrosion/ Irritation	Not irritating as per OECD 404, rabbit.
	Serious Eye Damage/ Irritation	Not irritating as per OECD 405, rabbit.
	Skin Sensitizer	>3 LLNA, EC3 = 29% as per OECD 429, mouse
	Respiratory Sensitizer	Not sensitizing.
	Germ Cell Mutagenicity	Negative as per OECD 471 (Ames), OECD 473 (Chromosome aberration), and OECD 476 (Micronucleus).
	Carcinogenicity	Not classifiable.
	Reproductive Toxicity	Not expected to cause reproductive or developmental effects.
	Developmental / Teratogenetic Toxicity	No data available.
	STOT - Single Exposure	No data available.
	STOT - Repeated Exposure	No data available.
	Aspiration Hazard	No data available.
3,6- diazaoctanethylenediamin triethylenetetramine (112-24-3)	Acute Toxicity - oral	No data available.
	Acute Toxicity - dermal	No data available.
	Acute Toxicity - inhalation	No data available.
	Skin Corrosion/ Irritation	Adverse effect observed (corrosive)
	Serious Eye Damage/ Irritation	Adverse effect observed (irritating)
	Skin Sensitizer	Adverse effect observed (sensitising)
	Respiratory Sensitizer	No data available.
	Germ Cell Mutagenicity	No data available.
	Carcinogenicity	No data available.
	Reproductive Toxicity	No data available.
	Developmental / Teratogenetic Toxicity	No data available.
	STOT - Single Exposure	No data available.
	STOT - Repeated Exposure	No data available.
	Aspiration Hazard	No data available.

	STOT - Single Exposure	No data available.
	STOT - Repeated Exposure	No data available.
	Aspiration Hazard	No data available.

11.2 Information on Other Hazards

11.2.1 Endocrine Disrupting Properties

This product contains no ingredients listed as an endocrine disruptor on EDL List I (identified), List II (under evaluation for), or List III (has ED properties).

11.2.2 Other Information

No additional information available.

SECTION 12 – ECOLOGICAL INFORMATION

12.1 Toxicity

Classified as Aquatic Toxicity – Acute Category 2 as well as Aquatic Toxicity - Chronic category 2 based on ingredients. Please see Section 8.1 for PNECs on individual ingredients.

12.2 Persistence and Biodegradability

No data available for the mixture.

Fatty acids, C18-unsaturated, dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine (68082-29-1)	Inherently biodegradable, Not fulfilling specific criteria (100%)
2,4,6-tris(dimethylaminomethyl) phenol (90-72-2)	Not biodegradable (100%)
Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropylether (72244-98-5)	No data available.
triethylenetetramine (112-24-3)	No data available.

12.3 Bioaccumulative Potential

No data available for the mixture.

Fatty acids, C18-unsaturated, dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine (68082-29-1)	No data available.
2,4,6-tris(dimethylaminomethyl) phenol (90-72-2)	No data available.
Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropylether (72244-98-5)	No data available.
triethylenetetramine (112-24-3)	No data available.

12.4 Mobility in Soil

Not mobile in soil.

12.5 Results of PBT and vPvB assessment

No PBT or vPvB assessment has been carried out. More information is needed.

12.6 Endocrine Disrupting Properties

This substance does not have endocrine disrupting properties with respect to non-target organisms as it does not meet the criteria set out in Section B of Regulation (EU) No 2017/100.

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12.7 Other Adverse Effects

None known.

SECTION 13 – DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material (uncured) and its container must be disposed of in a safe way.

Small amounts (during personal use) React the resin and hardener portions together and once cured, dispose of in accordance with local regulations.

Large amounts Contain and dispose of in accordance with local regulations. Mixing large amounts of resin and hardener together creates an exothermic reaction and care should be taken to avoid uncontrolled heating and possible fire.

EWC 20 01 27 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS: separately collected fractions: paint, inks, adhesives and resins containing dangerous substances

EWC (cured) 20 01 28 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS: separately collected fractions: paint, inks, adhesives and resins other than those mentioned in 20 01 27

SECTION 14 – TRANSPORT INFORMATION

This product is not subject to transport regulations as per Special Provision 375

14.5 Environmental Hazards

Aquatic Toxicity – Acute Category 2 as well as Aquatic Toxicity - Chronic category 2 by the summation method.

14.6 Special Precautions for User

None known.

14.7 Maritime Transport in Bulk According to IMO instruments

Not applicable as never transported in bulk.

SECTION 15 – REGULATORY INFORMATION

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

REACH EC1907/2006 Annex XIII, XIV, XVII The substance(s) in this product are not listed / not subject to restrictions.

International Agency for Research on Cancer (IARC) The substance(s) in this product are not listed / not subject to restrictions.

Australia Inventory of Industrial Chemicals (AIIC) The substance(s) in this product are listed.

New Zealand Inventory (NZIoC) The substance(s) in this product are listed.

Canada Domestic Substances List (DSL) / Non-Domestic Substance List (NDSL) The substance(s) in this product are listed.

United States Inventory (TSCA 8b)

California Proposition 65 The substance(s) in this product are not listed / not subject to restrictions.

The information provided is correct to the best of our knowledge. The information is designed only as a guide and is not considered as a warranty. We do not accept any liability arising from the use of information provided herein.

Consolidated List of Chemicals Subject to the Emergency Planning and Community Right-to-Know Act (EPCRA), Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and Section 112(r) of the Clean Air Act (CAA) The substance(s) in this product are not listed / not subject to restrictions.

15.2 Chemical Safety Assessment

Not yet done.

SECTION 16 – OTHER INFORMATION

Alternative names used on consumer packaging:

CAS No.	Ingredient Name (IUPAC)	Name used on Consumer Packaging
68082-29-1	Fatty acids, C18-unsaturated, dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	Polyamide resin
90-72-2	2,4,6-tris(dimethylaminomethyl) phenol	TDMA-Methylphenol
72244-98-5	Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro.-omega.-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether	polymercaptan
112-24-3	triethylenetetramine	TETA

Changes from previous version:

Date changed	Section	Changes
2026.01.19	2, 3, 8.1, 9, 11.1, 12, 14, 16	Chemical changes with associated adjustments. Aquatic Toxicity Acute 2 and Chronic 2
2024.08.23	1.1, 2.2, 3.2, 8.1, 11.1, 12.2, 12.3, 14, 16	Remove 80211 as packaging type no longer available. Minor formulation change; classification is the same. Additional ecological information on ingredients included.
2022.09.29	14	UN Hazard Classification does not include category 3 environmental hazards.
2022.03.11	1	Name changed to match all packaging.
2021.12.09	1, 2, 3, 9, 11, 12, 14	Major changes to comply with updated Regulation (EU) 2020/878. Separate SDS for Resin and Hardener.
2020.03.31	1	Combined all English versions.
2019.11.09	2, 3, 8, 11	Re-evaluated hazard after additional training.
	2, 3, 11	Separated hardener and resin classification. (The label on the pack will combine the information for both parts)
	1	Confirmed emergency contact details.
	15	Confirmed regulatory information and added information for several regulations.
	16	Added list of abbreviations used.

Abbreviations used:

ADN	European Agreement concerning the International Carriage of Dangerous Goods on Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
CAS No.	Chemical Abstract Services Number

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DNEL	Derived no-effect level
EC3	Effective concentration required to produce a three-fold increase in the stimulation index
EC No.	European Community Number
ECHA	European Chemicals Agency
EWC	European Waste Code
GCL	Generic concentration limit
GLP	Good Laboratory Practice
HSNO	Hazardous Substances and New Organisms Act
IATA	International Air Transport Association
IBC	International Bulk Container
ICAO	International Civil Aviation Authority
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
LD50	Lethal dose to 50% of test population
LLNA	Local lymph node assay
LT	Long term
mg/kg bw	milligrams per kilogram of body weight
mg/kg dwt	milligrams per kilogram dry weight
NOAEL	No observed adverse effect level
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted no-effect concentration
RID	European Agreements Concerning the International Carriage of Dangerous Goods by Rail
SCBA	Self contained breathing apparatus
SCL	Specific Concentration Limit
ST	Short term
STOT-SE	Specific target Organ Toxicity - Single Exposure
UN	United Nations
vPvB	very Persistent and very Bioaccumulative