SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION

1.1 Product Identifier

Product number and name	**92080-L PRATLEY POWDA BOND LIQUID, 20ml bottles**
Product type	Liquid for adhesive system

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 skin and 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, Factoria, 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, Factoria, 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, Factoria, 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	
Flammable	4	H227	Combustible liquid.
Skin Corrosion / Irritation	2	H315	Causes skin irritation.
Eye Corrosion / Irritation	2	H319	Causes serious eye irritation.
STOT-SE	3	H335	May cause respiratory irritation

2.1.2 Additional Information

EUH202 Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of reach of children.

2.2 Label Elements

Hazard Pictogram(s), Signal Word and Ingredients

WARNING

Ethyl 2-cyanoacrylate

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	H227	Combustible liquid.
	H315	Causes skin irritation.
	H319	Causes serious eye irritation.
	H335	**May cause respiratory irritation**
Obligatory Statements	EUH202	**Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of reach of children.**
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.**
	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P261	Avoid breathing dust/fume/gas/mist/vapours/spray.

P264	Wash hands thoroughly after handling.
P271	**Use only outdoors or in a well-ventilated area.**
P280	Wear protective gloves/eye protection.
P302 + P352	IF ON SKIN: Wash with plenty of water/…
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER/doctor/ … if you feel unwell.
P321	Specific treatment (see … 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.
P370 + P378	In case of fire: Use… to extinguish
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	**Store locked up.**
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)
ethyl-2-cyanoacrylate	97 - 100	7085-85-0 230-391-5 607-236-00-9	STOT SE 3; H335: C ≥ 10 %	Flammable – 4 Skin Corrosion – 2 Eye Corrosion – 2 STOT-SE – 3	H227 Combustible liquid. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation EUH202 Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of reach of children.

SECTION 4 – FIRST AID MEASURES

4.1 Description of First Aid Measures

SKIN Do not touch anything and do not let adjacent fingers touch each other. The liquid will cure to a flexible film which can be removed by soaking in hot water or can be allowed to peel off naturally. The liquid can become hot when curing

especially when in contact with clothing. Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. 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. Continue to rinse for at least 10 minutes. Do not try to open the eyelid by manipulation; the liquid attaches to the eye protein but will dissociate from it over the next several hours. Apply a gauze patch and 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 Make sure that breathing passages are not obstructed. The product will solidify in the mouth, making it almost impossible to swallow. Saliva will separate the solid product from the mouth. Wash out mouth with water. Move exposed person to fresh air. 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	Bonds skin in seconds. May cause thermal burns when curing on skin especially in contact with clothing.
EYE	Bonds eyes in seconds. No permanent damage expected.
INHALATION	May cause irritation.
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 Carbon oxides, halogenated compounds.

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. Do not use PVC, nylon, or cotton.
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. Do not use PVC, nylon, or cotton.
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

For small spills, wipe up with a cloth and immediately immerse in water to cause polymerization and avoid autoignition. For large spills, do not use cloths for mopping up or containing. Flood with water to cause polymerization and scrape off surface.

6.3.2 Clean-up procedure

Small amounts should be collected and cured by immersing in water and then disposed of in accordance with local regulations.
Large amounts would need to be disposed of 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 sunlight in a dry, cool (10-30°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, strong reducing agents, bases, and powdered metals, especially aluminium and zinc.

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

Ingredient (CAS No,)	**Route of exposure**		**Exposure Limit**	
			Workers	**Consumers**
ethyl-2-cyanoacrylate **(7085-85-0)**	Oral	ST	Not applicable.	No hazard identified
		LT	Not applicable	No hazard identified.
	Dermal	ST	No hazard identified.	No hazard identified.
		LT	No hazard identified.	No hazard identified.
	Inhalation	ST	DNEL: 9.25 mg/m^3	DNEL: 9.25 mg/m^3
		LT	DNEL: 9.25 mg/m^3	DNEL: 9.25 mg/m^3

PNEC

Fresh water	**Freshwater sediments**	**Marine water**	**Marine water sediments**	**Food chain**	**Sewage treatment**	**Soil (agricultural)**	**Air**	**Intermittent releases**
ethyl-2-cyanoacrylate **(7085-85-0)**								
Testing not feasible	Testing not feasible	Testing not feasible	Testing not feasible	Testing not feasible	Testing not feasible	Testing not feasible	No hazard identified	Testing not feasible

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. Do not use PVC, nylon or cotton.
Face / Eye Avoid eye contact. Do not touch or rub eyes after contact with product. Wash hands thoroughly with soap and water first.
Inhalation 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	Liquid
Colour	Transparent
Odour	Pungent
Melting point / Freezing point (°C)	No data available.
Boiling point, initial and range (°C)	>190 °C @ 100.3 kPa
Flammability	Not flammable. May be combustible at high temperatures.
Explosion / Flammability limits	Not explosive.
Flash point (°C), closed cup	>80 °C @ 101.3 kPa
Auto-ignition temperature (°C)	480 °C @ 101.3 kPa
Decomposition temperature (°C)	No data available.
pH	No data available.
Kinematic Viscosity (at 23°C)	2 cSt
Solubility	Reacts with water. 24 µg/L @ 20 °C
Partition co-efficient : n-octanol / water	No data available.
Vapour pressure	21 Pa @ 20 °C
Density and/or Relative density (at 23°C)	0,9-1.1 g/cm^3
Relative Vapour density	No data available.
Particle characteristics	Not applicable.

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
Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and alcohols.

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
Spontaneous polymerization.

10.5 Incompatible Materials
Water, amines, alkalis, and alcohols.

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
ethyl-2-cyanoacrylate **(7085-85-0)**	Acute Toxicity - oral	No data available.
	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 data available.
	Respiratory Sensitizer	No data available.
	Germ Cell Mutagenicity	IN-VITRO: no effective observed
	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.

11.2 information on Other Hazards

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.

11.2.1 Endocrine Disrupting Properties

Not 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

None known.

SECTION 12 – ECOLOGICAL INFORMATION

12.1 Toxicity

Not classified as Toxic to aquatic life.
Please see Section 8.1 for PNECs on individual ingredients.

12.2 Persistance and Biodegradability

No data available.

12.3 Bioaccumulative Potential

No bioaccumulation potential.

12.4 Mobility in Soil

Mobile in soil but is likely to cure before extensive dissemination.

12.5 Results of PBT and vPvB assessment

No PBT or vPvB assessment has been carried out. Based on the ingredients which have a low potential to bioaccumulate, it is expected that this product is not a PBT.

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.

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) Allow to react with atmospheric moisture or Powda Bond Powder, then dispose of in accordance with local regulations.
Large amounts Contain and dispose of in accordance with local regulations. Mixing large amounts of Powda Bond Liquid and Powder 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

SECTION 14 – TRANSPORT INFORMATION

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Transport Hazard Class	14.4 Packing Group
ADR	*Not classified as hazardous.*			
RID	*Not classified as hazardous.*			
ADN	*Not classified as hazardous.*			
IMO/IMDG	*Not classified as hazardous.*			
ICAO/IATA	UN3334	AVIATION REGULATED LIQUID, N.O.S. ethyl-2-cyanoacrylate	9	III

14.5 Environmental Hazards

Not classified as hazardous to the environment.

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) The substance(s) in this product are listed.
California Proposition 65 The substance(s) in this product are not listed / not subject to restrictions.
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
7085-85-0	ethyl-2-cyanoacrylate	ethyl-2-cyanoacrylate

Changes from previous version:

Date changed	Section	Changes
2024.03.22		General update. No information change.
2022.02.25	2	Re-assessed hazard. Added obligatory phrase.
		Separated Powder and Liquid Safety Data Sheets.
2020.02.04	2, 3, 8, 11	Re-evaluated hazard after additional training.
	2, 3, 11	Separated liquid and powder 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.
2016.05.26	1, 2	Added New Zealand emergency contact information, HSNO classification and Tariff Code.
2015.12.11		Updated to GHS.

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
BCF	Bioaccumulation Factor
CAS No.	Chemical Abstract Services Number
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	Persistant, 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 Persistant and very Bioaccumulative