



SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION

1.1 Product Identifier

Product number and name **92062 PRATLEY SAFETY CLEANER**
Product type Non-flammable aerosol solvent for cleaning

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

Relevant identified uses Electrical component cleaner
Uses advised against No specific uses advised against.
Avoid eye and skin contact, inhalation 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
Aerosols	3	H229 Pressurized container: may burst if heated.
Aquatic Toxicity – Chronic	2	H411 Toxic to aquatic life with long lasting effects.
Carcinogen	2	H351 Suspected of causing cancer.

2.1.2 Additional Information

EUH066 Repeated exposure may cause skin dryness or cracking.

2.2 Label Elements

Hazard Pictogram(s),
Signal Word and
Ingredients



WARNING

Tetrachloroethylene

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

H229 **Pressurized container: May burst if heated.**

H411 **Toxic to aquatic life with long lasting effects.**

H351 **Suspected of causing cancer.**

Obligatory
Statements

EUH066 **Repeated exposure may cause skin dryness or cracking**

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.**

Precautionary
Statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

- P251 **Do not pierce or burn, even after use.**
- P273 Avoid release into the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P308 + P313 If exposed or concerned: get medical advice/attention.
- P391 Collect spillage.
- P405 Store locked up.
- P410 + P412 **Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F**
- 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)
Tetrachloroethylene	95 - 99	127-18-4 204-825-9 602-028-00-4		Carcinogen - 2 Aquatic Chronic - 2	H351 Suspected of causing cancer. H411 Toxic to aquatic life with long lasting effects.
Carbon dioxide	1 - 5	124-38-9 204-696-9 -		Compressed gas - 3	H280 Contains gas under pressure; may explode if heated.

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.

NOTE TO PHYSICIAN Do not administer adrenaline or epinephrine to a victim of chlorinated solvent poisoning. Treat symptomatically.

4.2 Most important symptoms and effects, both acute and delayed

SKIN	Prolonged or repeated contact may cause skin dryness, cracking, and irritation.
EYE	May cause dryness and irritation.
INHALATION	Prolonged inhalation of high vapor concentrations may cause headache, dizziness, tiredness, nausea, and vomiting.
INGESTION	May cause nausea and vomiting.

SECTION 5 – FIRE FIGHTING MEASURES

5.1 Extinguishing Media

SUITABLE carbon dioxide, regular dry chemical.

NOT SUITABLE 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 Hydrogen chloride and phosgene, containers may burst when heated.

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 Rubber, PVC or nitrile gloves and non-permeable overalls.

FACE / EYES Safety goggles.

CLOTHING Full suit and boots.

VENTILATION If ventilation is poor use a self-contained breathing apparatus.

6.1.2 For emergency personnel

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

SKIN Rubber, PVC or nitrile gloves and non-permeable overalls.

FACE / EYES Safety goggles.

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CLOTHING Full suit and boots.

VENTILATION If ventilation is poor use a self-contained breathing apparatus.

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). Harmful to the environment if released.

6.3 Method and material for containment and cleaning up

6.3.1 Containment procedure

Absorb with an inert material and then collect for disposal.

6.3.2 Clean-up procedure

Small amounts should be absorbed onto a suitable material and allowed to dry in a well-ventilated area. This should be 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

Pressurised container: Do not pierce, puncture, crush or burn (incinerate), even after use. Do not use if spray button is missing or defective. Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not handle or store near an open flame, heat, or other sources of ignition.

Do not eat, drink, or smoke while using the product. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

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. 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. Protect from sunlight and do not expose to temperatures exceeding 50°C.

Incompatible Materials: Strong acids, Strong oxidizing agents, Strong bases (especially sodium hydroxide or potassium hydroxide), Finely divided metals (especially Zinc, Barium, and Lithium).
Slowly corrodes zinc, iron and aluminium.

Packaging Material: Use original container.

7.3 Specific end use(s)

Not applicable.

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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
Tetrachloroethylene (127-18-4)	Oral	ST, systemic	Not applicable.	No hazard identified.
		LT, systemic	Not applicable	DNEL: 1.3 mg/kg bw/day (repeated dose)
	Dermal	ST, local	Medium hazard (no threshold derived)	Medium hazard (no threshold derived)
		LT, local	Medium hazard (no threshold derived)	Medium hazard (no threshold derived)
		ST, systemic	No hazard identified.	No hazard identified.
		LT, systemic	DNEL: 39.4 mg/kg bw/day (repeated dose)	DNEL: 167 µg/kg bw/day (repeated dose)
	Inhalation	ST, local	No hazard identified.	No hazard identified.
		LT, local	No hazard identified.	High hazard (no threshold derived)
		ST, systemic	DNEL: 275 mg/m ³	DNEL: 1.38 mg/m ³ (repeated dose)
		LT, systemic	DNEL: 138 mg/m ³ (repeated dose)	DNEL: 250 µg/m ³ (repeated dose)

PNEC

Fresh water	Freshwater sediments	Marine water	Marine water sediments	Food chain	Sewage treatment	Soil (agricultural)	Air	Intermittent releases
Tetrachloroethylene (127-18-4)								
51 µg/L	903 µg/kg sediment dw	5.1 µg/L	90.3 µg/kg sediment dw	No potential for bio- accumulation	11.2 mg/L	10 µg/kg soil dw	8.2 µg/m ³	36.4 µg/L

8.2 Exposure Controls

8.2.1 Appropriate engineering controls

Ensure adequate ventilation. If ventilation is poor use a self-contained breathing apparatus.

8.2.2 Personal Protection

Skin Rubber, PVC or nitrile gloves and non-permeable overalls.

Face / Eye Protective eyeglasses.

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.

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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 - Aerosol
Colour	Clear
Odour	Characteristic, sweet.
Melting point / Freezing point (°C)	-22°C.
Boiling point, initial and range (°C)	121.4°C
Flammability	Not flammable.
Explosion / Flammability limits	Non explosive.
Flash point (°C), closed cup	No data available.
Auto-ignition temperature (°C)	650°C.
Decomposition temperature (°C)	>150°C.
pH	No data available.
Kinematic Viscosity (at 23°C)	0.52 mPa.s
Solubility	150 mg/L water @ 25°C.
Partition co-efficient : n-octanol / water	Log Kow (Log Pow) 2.53 @ 20 °C.
Vapour pressure	25hPa at 25°C.
Density and/or Relative density (at 23°C)	1.61 g/cm ³
Relative Vapour density	No data available.
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

Tetrachloroethylene is listed as a carcinogen under California Proposition 65 and as a class 2A Probable Carcinogen under IARC.

SECTION 10 – STABILITY AND REACTIVITY

10.1 Reactivity

None known.

10.2 Chemical Stability

Stable under recommended storage conditions. Moisture-sensitive. May cause decomposition by long-term light influence.

10.3 Possibility of Hazardous Reactions

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

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10.4 Conditions to Avoid

Humidity. Direct light irradiation. UV radiation (sunlight). High temperatures: decomposition occurs at temperatures above 140°C.

10.5 Incompatible Materials

Strong acids, Strong oxidizing agents, Strong bases (especially sodium hydroxide or potassium hydroxide), Finely divided metals (especially Zinc, Barium, and Lithium). Slowly corrodes zinc, iron and aluminium.

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
Tetrachloroethylene (127-18-4)	Acute Toxicity - oral	LD ₅₀ : 3005 – 3835 mg/kg bw (rat)
	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	Adverse effects observed – sensitizing.
	Respiratory Sensitizer	No data available.
	Germ Cell Mutagenicity	No data available.
	Carcinogenicity	No data available.
	Reproductive Toxicity	No data available.
	Developmental / Teratogenic Toxicity	No data available.
	STOT - Single Exposure	No data available.
	STOT - Repeated Exposure	ORAL: Adverse effect observed LOAEL 390 mg/kg bw/day (chronic, mouse), systemic effects
	Aspiration Hazard	Risk of aspiration leading to chemical pneumonitis, particularly if vomiting occurs

11.2 Information on Other Hazards**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

Tetrachloroethylene is listed as a carcinogen under California Proposition 65 and as a class 2A Probable Carcinogen under IARC.

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SECTION 12 – ECOLOGICAL INFORMATION

12.1 Toxicity

Classified as Toxic to aquatic life with long lasting effects.
Please see Section 8.1 for PNECs on individual ingredients.

12.2 Persistence and Biodegradability

Under test conditions no biodegradation observed (100%).

12.3 Bioaccumulative Potential

No data available.

12.4 Mobility in Soil

No data available. Expected to be readily mobile in soil.

12.5 Results of PBT and vPvB assessment

No PBT or vPvB assessment has been carried out.

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

Tetrachloroethylene is listed as a carcinogen under California Proposition 65 and as a class 2A Probable Carcinogen under IARC.

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 and its container must be disposed of in a safe way.

Small amounts (during personal use) Dispose of in accordance with local regulations.

Large amounts Contain and dispose of in accordance with local regulations.

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 (Subsidiary risk)	14.4 Packing Group
ADR	1950	AEROSOLS	2.2 (6.1)	-
RID	1950	AEROSOLS	2.2 (6.1)	-
ADN	1950	AEROSOLS	2.2 (6.1)	-
IMO/IMDG	1950	AEROSOLS	2.2 (6.1)	-

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ICAO/IATA	1950	Aerosols, non-flammable, containing substances in Division 6.1, Packing Group III	2.2 (6.1)	-
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14.5 Environmental Hazards

Classified as toxic to the aquatic environment; Chronic Category 2. Contains Tetrachloroethylene.

14.6 Special Precautions for User

Avoid temperatures above 50°C.

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 No ingredient is subject to restrictions.

International Agency for Research on Cancer (IARC) Tetrachloroethylene is listed in Group 2A as probably carcinogenic to humans.

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 Tetrachloroethylene is listed / 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) Tetrachloroethylene is listed / 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
127-18-4	Tetrachloroethene	Tetrachloroethylene

Changes from previous version:

Date changed	Section	Changes
2023.09.27	1, 2, 3, 9, 11, 12, 14	Major changes to comply with updated Regulation (EU) 2020/878. Removed Tariff code.
2018.09.05	14	More appropriate tariff code. Changed from 3202.50.21 to 3814.00.91.
2016.10.25		Changed from Trichloroethylene to Tetrachloroethylene.
2014.07.04	1	Added additional emergency contact details.
2013.01.28		Update for propellant change. Changed from EU classification system to GHS classification system.

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2006.05.04

Initial document.

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	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