

Corrosion Assassin — Safety Data Sheet v4.0

Date of issue: October 2026

1. Identification

Item	Detail
Product identifier	Corrosion Assassin — Liquid
Other means of identification	None
Recommended use	Rust removal, surface preparation and short-term corrosion inhibition on ferrous metals
Restrictions on use	Not for chrome, nickel-plated or anodised surfaces. Not for food contact. Use as supplied.
Supplier	Green Guard Industrial Solutions (Pty) Ltd, Edenvale, Gauteng, South Africa · Reg. 2024/528680/07 · gary@greenguardis.co.za
Emergency phone number	+27 73 267 1150

2. Hazard identification

Item	Detail
Classification	Skin irritation, Category 2 · Eye irritation, Category 2
Pictogram	GHS07 (exclamation mark)
Signal word	WARNING
Hazard statements	H315 Causes skin irritation. H319 Causes serious eye irritation.

Item	Detail
Precautionary statements	P264 Wash hands thoroughly after handling. P280 Wear protective gloves and eye 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 easy to do; continue rinsing. P332+P313 If skin irritation occurs, get medical advice. P337+P313 If eye irritation persists, get medical advice.
Other hazards	Releases hydrogen gas on contact with zinc, aluminium, magnesium and galvanised steel.

3. Composition

Mixture.

Ingredient	CAS number	Concentration
Phosphoric acid	7664-38-2	5-20%
Wetting agents and solvents	Proprietary	Withheld (trade secret)

4. First-aid measures

Item	Detail
Skin	Wash with plenty of clean water. Remove contaminated clothing. Get medical advice if irritation persists.
Eyes	Rinse with plenty of clean water for at least 15 minutes, holding eyelids open. Get medical advice if irritation persists.
Inhalation	Move to fresh air.
Ingestion	Rinse mouth with water. Do not induce vomiting. Drink milk and get medical attention.
Most important symptoms	Skin redness and irritation; eye irritation; irritation of mouth and stomach if swallowed.

Item	Detail
Immediate medical attention	Not normally required. Treat symptomatically.

5. Fire-fighting measures

Item	Detail
Suitable extinguishing media	Dry chemical powder or CO ₂
Specific hazards	Non-flammable. Hydrogen gas from contact with reactive metals can collect in enclosed spaces.
Protective actions for fire-fighters	Standard protective clothing and breathing apparatus

6. Accidental release measures

Item	Detail
Personal precautions	Wear goggles, apron, PVC gloves and boots.
Environmental precautions	Do not let the product enter storm water drains.
Containment and cleaning up	Contain with sand or soda ash. Neutralise with soda ash to pH 6–8 and collect for disposal as acid effluent.

7. Handling and storage

Item	Detail
Safe handling	Use as supplied. Do not mix with other chemicals. Wash hands after use.
Safe storage	Cool, dry area in the original plastic container, tightly closed. Store in plastic containers only.
Incompatibilities	Strong alkalis, oxidising agents, reducing agents, reactive metals

8. Exposure controls and personal protection

Item	Detail
Control parameters	Phosphoric acid: 1 mg/m ³ (8-hour average)
Engineering controls	General ventilation
Eye protection	Safety goggles
Hand protection	PVC or rubber gloves
Body protection	Protective apron and boots
Respiratory protection	Not normally required

9. Physical and chemical properties

Property	Value
Physical state	Liquid
Colour	Clear
Odour	Soapy, acidic; odour threshold not available
Melting point / freezing point	Not available
Boiling point	112 °C
Flammability	Non-flammable
Lower and upper explosion limits	Not applicable
Flash point	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	Not available
pH	1 (neat)
Kinematic viscosity	Not available
Solubility	100% soluble in water
Partition coefficient	Not available
Vapour pressure	Not available

Property	Value
Relative density	1.12
Relative vapour density	Not available
Particle characteristics	Not applicable (liquid)

10. Stability and reactivity

Item	Detail
Reactivity	Acidic. Reacts with alkalis and reactive metals.
Chemical stability	Stable under normal conditions
Hazardous reactions	Heat released with strong alkalis. Hydrogen gas with zinc, aluminium, magnesium and galvanised steel.
Conditions to avoid	Contact with incompatible materials
Incompatible materials	Strong alkalis, oxidising agents, reducing agents, reactive metals
Hazardous decomposition products	None known

11. Toxicological information

Likely routes of exposure: skin, eyes, ingestion, inhalation of mist.

Hazard	Result
Acute toxicity	Not classified. Data not available.
Skin corrosion / irritation	Skin irritant, Category 2
Serious eye damage / irritation	Eye irritant, Category 2
Respiratory or skin sensitisation	Data not available
Germ cell mutagenicity	Data not available
Carcinogenicity	Data not available
Reproductive toxicity	Data not available

Hazard	Result
Specific target organ toxicity — single exposure	Data not available
Specific target organ toxicity — repeated exposure	Data not available
Aspiration hazard	Not applicable (aqueous liquid)

12. Ecological information

Item	Detail
Toxicity	Data not available
Persistence and degradability	Data not available
Bioaccumulative potential	Data not available
Mobility in soil	Fully water-soluble
Other adverse effects	Lowers the pH of water. Neutralise before discharge.

13. Disposal considerations

Neutralise with soda ash to pH 6–8, then dispose of through a licensed effluent contractor under local trade effluent rules. Rinse empty containers and treat the rinse water as product.

14. Transport information

Item	Detail
UN number	Not regulated
UN proper shipping name	Not regulated
Transport hazard class	Not regulated
Packing group	Not regulated
Environmental hazards	No
Special precautions	Keep containers upright and secured

Item	Detail
Transport in bulk	Not applicable

15. Regulatory information

South Africa: Occupational Health and Safety Act 85 of 1993; Regulations for Hazardous Chemical Agents, 2021.

16. Other information

Version 4.0, October 2026. Supersedes all previous versions.

Information is given in good faith on the data available at the date of issue. Users must confirm suitability for their own use and compliance with local regulations.