Date of issue: 3 November 2026

Revised by: Simonne Moses - HSNO Consultant SDS No: 1

Safety Data Sheet
105 – Acid Mag Wheel Cleaner

Classified as: Hazardous according to the EPA Hazardous Substances (Hazard Classifications) Notice 2020.

Section 1: SUBSTANCE AND SUPPLIER DETAILS

Product Name: 105 – Acid Mag Wheel Cleaner

Supplier: PureWax Ltd
14/88 Hobsonville Road
Hobsonville
Auckland 0618
New Zealand

Phone: 0800 PUREWX (787 399)

Email: info@purewax.com.au

Website: Purewax.co.nz

Recommended Use: Automotive care product, wheel cleaner. Restricted to workplaces only.

In Case of Emergency Contact:

CHEMCALL: 0800 CHEMCALL (243 622)

Section 2: HAZARDS IDENTIFICATION

This product is classified as a Dangerous Good for Transport.

This product is classified as hazardous according to criteria in the EPA Hazardous Substances (Hazard Classifications) Notice 2020.

Classified under the group standard "Industrial and Institutional Cleaning Products (Acutely Toxic, Corrosive) Group Standard 2020".

HSNO APPROVAL NUMBER: HSR002595

HSNO CLASSIFICATIONS: 6.1C – Acutely toxic, oral
6.1C – Acutely toxic, dermal
6.1C – Acutely toxic, inhalation
8.1A – Corrosive to metals
8.2B – Corrosive to skin
8.3A – Corrosive to eyes
6.9A – Toxic to human target organs and systems, single exposure
6.9A – Toxic to human target organs and systems, repeated exposure

GHS Classification: Acute oral toxicity – Category 3
Acute dermal toxicity – Category 3
Acute inhalation toxicity – Category 3
Corrosive to metals – Category 1

Skin corrosion – Category 1B
Serious eye damage - Category 1
Specific target organ toxicity, single exposure – Category 1
Specific target organ toxicity, repeated exposure – Category 1

Hazard Statements:

H290 May be corrosive to metals.
H301 + H311 + H331 Toxic if swallowed, in contact with skin, or if inhaled.
H314 Causes severe skin burns and eye damage.
H370 Causes damage to organs (bones, liver, cardiovascular, respiratory) via skin contact, inhalation, or ingestion.
H372 Causes damage to organs (bones, liver, cardiovascular, respiratory) through prolonged or repeated exposure via skin contact, inhalation, or ingestion.

GHS Pictograms:



Signal word: **DANGER**

PREVENTION STATEMENTS:
P102 - Keep out of reach of children.
P103 - Read carefully and follow all instructions.
P234 – Keep only in original packaging.
P260 – Do not breathe mist/vapours/spray.
P264 – Wash hands, exposed skin thoroughly after handling.
P270 – Do not eat, drink, or smoke, when using this product.
P271 – Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.

RESPONSE STATEMENTS:
P101 - If medical advice is needed, have product container or label at hand.
P301 + P330 + P331 – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 – IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P363 – Wash contaminated clothing before re-use.
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.
P308 + P310 – If exposed or concerned: Immediately call a POISON CENTER or doctor/physician.
P314 – Get medical advice/attention if you feel unwell.
P321 – Specific treatment (see first aid panel on this label).
P390 – Absorb spillage to prevent material damage.

STORAGE:
P405 – Store locked up.
P406 – Store in a corrosion resistant container with a resistant inner liner.

DISPOSAL:
P501 - In accordance with the EPA Hazardous Substances (Disposal) Notice 2017. Dispose of via an approved waste disposal contractor. Refer to Section 13 of the SDS.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Mixture: Wheel cleaner.

Main Component	CAS Number	Concentration (%wt)
Sulphuric acid	7664-93-9	10 - 20%
Hydrofluoric acid	7664-39-3	3 - 7%
Ammonium fluoride	1341-49-7	1 - 5%
Isopropyl alcohol	67-63-0	1 - 5%

There are no other ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Section 4: FIRST AID MEASURES

Workplace Facilities Required: Eyewash and safety shower facilities should be provided in workplaces close to where product is being used. Antidote for hydrofluoric acid (calcium gluconate) must be available where product is used.

If Inhaled: Remove to fresh air. Monitor breathing. Seek immediate medical attention. If breathing stops, commence artificial respiration using a bag valve mask. Do not breathe mouth-to-mouth as this may expose rescuer to toxic and corrosive substance.

In Contact with Eye: Hold eyes open, flush continuously with water until told to stop by a medical professional, or for at least 30 minutes. Seek immediate medical attention.

In Contact with Skin: Wash skin with plenty of water, while removing contaminated clothing and shoes. Wash contaminated clothing before re-use. Seek immediate medical attention. Do not burst any blisters that may form. Treat with hydrofluoric acid antidote (calcium gluconate).

If Swallowed: Seek immediate medical attention. DO NOT INDUCE VOMITING. Rinse mouth. Give small quantities of water. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head below hips to prevent aspiration to lungs.

Advice to Doctor: Treat symptomatically. Product is acidic and highly corrosive to eyes and skin. Product is also toxic. Product contains hydrofluoric acid which can decalcify bones. Ophthalmological opinion should be sought for burns to eyes.

Section 5: FIRE FIGHTING MEASURES

Fire/Explosion Hazard: Product is not flammable or combustible.

Suitable Extinguishing Media: Use water spray or fog, foam, dry chemical powder, or carbon dioxide. Do not use water jet as this may spread fire.

Precautions in Connection with Fire: May give off toxic fumes in a fire containing oxides of sulphur and nitrogen, ammonia, and hydrogen fluoride.

Advice for firefighters: Wear full firefighting gear and self-contained breathing apparatus. Remove containers from path of fire if safe to do so. Cool exposed containers with water spray from a safe location.

Section 6: ACCIDENTAL RELEASE MEASURES

An emergency response plan meeting the requirements of Part 5 of the Health and Safety at Work (Hazardous Substances) Regulations 2017 is required when held in quantities greater than 100L.

Precautions: Clear area of all unprotected personnel. Keep unnecessary and unprotected personnel from entering area. Avoid contact with skin and eyes. Do not breathe mist/vapour/spray.

Suitable Protective Equipment: Emergency responders must use personal protective equipment, including elbow length gloves, protective clothing and footwear, and safety goggles. Respiratory protection may be required if mist/vapours/spray is present.

Spill or Leak Procedures. Contain the spill. Spill may be neutralised using weak alkali such as soda ash. Absorb with suitable inert material such as sand, earth. Collect into a suitable waste container for disposal. Ensure waste container is properly labelled.

Waste Disposal Methods: Dispose of as per Section 13.

Emergency preparation: Ensure there is appropriate and adequate personal protective equipment, trained personnel and clean up materials for management of accidental release.

Section 7: HANDLING AND STORAGE

Precautions for Safe Handling: Avoid contact with skin and eyes. Do not breathe mist/vapour/spray. Do not eat, drink, or smoke when using this product. Remove contaminated clothing and wash hands and face before entering eating areas.

Storage: Store locked up. Keep out of reach of children. Keep in original labelled container. Keep container tightly closed when not in use. Store in a cool, dry, well-ventilated area away from direct sunlight.

Site Storage Requirements: Site Signage will be required when quantities exceed 250L. For incompatibles refer to Section 10.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Workplace Exposure Standards NZ: No Workplace Exposure Standards have been established for this product. Workplace Exposure Standards have been established for the following ingredients:

Sulphuric acid: TWA 0.1 mg/m^3 (carcinogenic)
Hydrofluoric acid: TWA 1 ppm, 0.8 mg/m^3, STEL 2 ppm, 1.6 mg/m^3
Isopropyl alcohol: TWA 200 ppm, 491 mg/m^3, STEL 400 ppm, 983 mg/m^3

Engineering Controls: Eyewash facilities and safety showers should be provided in the work area where there is a risk of exposure to eyes and skin. If use generates large quantities of vapours/mist/spray, use engineering controls such as local exhaust ventilation to ensure workers are not exposed to levels exceeding the exposure standards.

Personal Protective Equipment: Avoid contact with skin and eyes. Do not breathe mist/vapour/spray.

Hand protection: Wear protective gloves that are resistant to the product, e.g., PVC. Wear elbow length gloves. Refer to Australian and New Zealand Standard AS/NZS 2161 for

protective gloves.

Skin and body protection: Use protective clothing and a PVC apron. Remove any contaminated clothing to avoid prolonged contact with the skin. Wash work clothes regularly. Refer to Australian and New Zealand Standard AS/NZS 4501 for occupational protective clothing.

Eye protection: Use safety goggles to protect eyes. If use generates splashing use a face shield as well as eye protection. Refer to AS/NZS 1336 for suitable eye and face protection.

Respiratory protection: If there is a risk of exposure to mist/vapour/spray, and ventilation is inadequate, use respiratory protection suitable for inorganic acid mists and spray.

Other information: PPE selected must be impervious to the substance. Do not eat, smoke, or drink where material is handled, processed, or stored. Wash hands carefully before eating, drinking, or smoking. Handle in accordance with safe industrial hygiene practices.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Description:	Liquid	**Colour:**	Light brown
Odour:	Sharp, acidic	**Odour Threshold:**	Not available
pH (20°C):	1.5 - 2	**Solubility (water, 25°C):**	Soluble
Freezing/Melting point:	Not available	**Boiling Point:**	Not available
Flammability:	Non-flammable	**Flash Point:**	> 93°C
UEL/LEL:	Not applicable	**Vapour Pressure (20°C):**	Not available
Decomposition Temp:	Not available	**Autoignition Temp:**	Not applicable
Relative Density:	1.17 (water = 1)	**Vapour Density (20°C):**	Not available
Partition Coefficient: n-octanol/water	Not available	**Viscosity, kinematic:**	Not available
Particle Characteristics:	Not applicable		

Section 10: STABILITY AND REACTIVITY

Stability: Stable under normal storage conditions.

Reactivity: None expected under normal conditions of use. Reacts exothermically with alkalis. Corrodes metal.

Conditions to Avoid: Elevated temperatures.

Incompatibility: Incompatible with strong alkalis and strong oxidisers. Incompatible with metals such as aluminium, tin, and zinc.

Hazardous Decomposition: Thermal decomposition may result in toxic fumes containing oxides of sulphur and nitrogen, ammonia, and hydrogen fluoride.

Section 11: TOXICOLOGICAL INFORMATION

Acute Exposure

Acute Toxicity: Classified as acutely toxic by all exposure routes.
LD_{50} oral > 50 - ≤ 300 mg/kg.
LD_{50} dermal > 200 - ≤ 1,000 mg/kg
LC_{50} inhalation > 0.5 - ≤ 1 mg/L (mist)

Inhalation: Toxic if inhaled. Inhalation of mist/vapours/spray may burn mucous linings and may damage the respiratory system. May also cause poisoning effects.

Ingestion: Toxic if swallowed. Ingestion may cause corrosive burns to mouth and throat, cause poisoning effects such as nausea, vomiting, and may cause damage to internal organs. Product contains hydrofluoric acid which can decalcify bones.

Skin Corrosion/Irritation: Toxic in contact with skin. Product is a skin corrosive and will cause redness, pain, and skin burns. Product contains hydrofluoric acid which can decalcify bones.

Serious Eye Damage/Eye Irritation: Product is corrosive to the eyes and may cause redness, pain, weeping, corneal burns, blurred vision, and blindness.

Respiratory or Skin Sensitisation: No information available. Not expected to be a respiratory or contact sensitiser.

Chronic Exposure:

Mutagen/Carcinogen/Reproductive Toxicant No information available. Product is not expected to be mutagenic, carcinogenic or a reproductive toxicant.

Specific Target Organ Toxicity Single Exposure: Product is toxic to human target organs and systems via inhalation, ingestion, and skin contact. May affect liver, cardiovascular system, respiratory system, and decalcify bones.

Specific Target Organ Toxicity Repeated Exposure: Product is toxic to human target organs and systems through prolonged or repeated exposure via inhalation, ingestion, and skin contact. May affect liver, cardiovascular system, respiratory system, and decalcify bones.

Aspiration Hazard: No information available. Not expected to be an aspiration hazard.

Toxicity data is based on hazardous ingredient information and information in the EPA Chemical Classification and Information Database.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: Product is not classified as toxic or harmful to the aquatic or terrestrial environments.

Persistence/degradability: Expected to be biodegradable.

Bioaccumulation: Not expected to bioaccumulate.

Mobility in soil: No information available.

Other adverse effects: Undiluted product released to water ways may alter pH.

Ingredients with Ecotoxic classifications: There are no ingredients in the formulation with ecotoxic classifications.

Ecotoxicity data is based on hazardous ingredient information and information in the EPA Chemical Classification and Information Database.

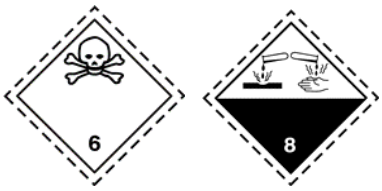
Section 13: DISPOSAL CONSIDERATIONS

Disposal: Recycle and reuse wherever possible. May be neutralised with weak alkali such as soda ash. Dispose of waste product via an approved waste disposal contractor.

Disposal of Packaging: Dispose of packaging via an approved waste disposal contractor.

Section 14: TRANSPORT INFORMATION

This product is classified as a Dangerous Good for transport in accordance with NZS5433:2020, IMDG or IATA.



Hazchem Code: 2X
Emergency Response Guide: 154

Land Transport NZS5433:2020:
UN No: 2922
Proper Shipping Name: Corrosive liquid, toxic, n.o.s. (contains hydrofluoric acid, sulphuric acid)
Class: 8
Subsidiary Class: 6.1
Packing Group: II
Environmental hazard: No
Limited Quantity: 1 L

Marine Transport IMDG:
UN No: 2922
Proper Shipping Name: Corrosive liquid, toxic, n.o.s. (contains hydrofluoric acid, sulphuric acid)
Class: 8
Subsidiary Class: 6.1
Packing Group: II
Marine Pollutant: No
EmS: F-A, S-B
Limited Quantity: 1 L

Air Transport IATA:
UN No: 2922
Proper Shipping Name: Corrosive liquid, toxic, n.o.s. (contains hydrofluoric acid, sulphuric acid)
Class: 8
Subsidiary Class: 6.1
Packing Group: II
Environmental hazard: No

Concentrated strong acids are incompatible with concentrated strong alkalis.

Ensure transportation methods prevent leakage from packages and collapsing loads.

Section 15: REGULATORY INFORMATION

Group Standard Allocation: Industrial and Institutional Cleaning Products (Acutely Toxic, Corrosive) Group Standard 2020.

HSNO Approval Code: HSR002595

Classifications:
Acute oral toxicity – Category 3
Acute dermal toxicity – Category 3
Acute inhalation toxicity – Category 3
Corrosive to metals – Category 1
Skin corrosion – Category 1B
Serious eye damage - Category 1
STOT, single exposure – Category 1
STOT, repeated exposure – Category 1

NZ Inventory of Chemicals: All ingredients are listed in the NZ Inventory of Chemicals.

This substance triggers:

Compliance Certificate	250L
Certified Handler	N/A
Emergency Response Plan	100L
Secondary Containment	100L
Signage	250L

This substance contains between 1-7% hydrofluoric acid and is subject to Tracking requirements. This product is also restricted to workplaces only and the requirements of Clause 13 of the EPA Hazardous Substances (Hazardous Property Controls) Notice must be met.

All workplace personnel handling this substance are required to be trained on the safe handling and PPE requirements for the hazards associated with this substance.

Section 16: OTHER INFORMATION

The information provided in this Safety Data Sheet relates only to the specific material designated herein. This Safety Data Sheet summarises our best knowledge of the health and safety hazard information of the product and how to safely handle the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including its use in conjunction with other products.

This substance is approved under HSNO for use as an industrial cleaning product. All reasonable care has been taken to ensure that the information and advice contained herein are from sources believed to be reliable and to represent the most up-to-date knowledge available at the date given in Section 16. No liability is assumed for any damages related to the use or misuse of this substance.

All chemical materials may present unknown hazards as people have varying degrees of sensitivity to chemicals. Therefore, this product should be used with caution. The information herein is given in good faith, but no warranty, express or implied is made.

SDS Issued: 3 November 2026

Reason for Revision: Update to New Zealand regulatory requirements.

References:
EPA NZ Chemical Classification and Information Database.
Supplier SDS: 3D International, USA, 105 – Acid Mag Wheel Cleaner, May 2026

Summary of Abbreviations: EPA – Environmental Protection Authority
GHS – Global Harmonisation System
CAS – Chemical Abstracts Service
TWA – Time Weighted Average
STEL – Short Term Exposure Limit

END OF SAFETY DATA SHEET