

SAFETY DATA SHEET Red Wheel Acid

According to Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, December 2011

SECTION 1: Identification: Product identifier and chemical identity

Product identifier

Product name Red Wheel Acid

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

Application Car maintenance product. - Aluminium cleaner

Uses advised against For professional use only. This product is not recommended for any industrial, professional or

consumer use other than the Identified uses above.

Details of the supplier of the safety data sheet

Supplier Autosmart Australia

11 Darrambal Close

Rathmines NSW 2283 Australia

www.autosmartaustralia.com.au

Tel: 02 49 75 14 88 (Mon to Fri, 08:00 - 16:00 AEST) (General Information. Transport

Information. Mild Medical Information) autosmart@autosmartaustralia.com.au

Contact Person Mr. Russell Butler

Emergency telephone number

Emergency telephone Emergency No: +44 7808 971321 (24hrs) (Autosmart International, UK)

General Information. Transport Information. Mild medical Information:-

Tel: 02 49 75 14 88 (Mon to Fri, 08:00 - 16:00 AEST)

National emergency telephone Poison Information Hotline: 13 11 26

number

SECTION 2: Hazard(s) identification

Classification of the substance or mixture

Physical hazards Not Classified

Health hazards Acute Tox. 3 - H301 Acute Tox. 2 - H310 Acute Tox. 3 - H331 Skin Corr. 1A - H314 Eye Dam.

1 - H318

Environmental hazards Not Classified

Label elements

Pictogram





Signal word Danger

Red Wheel Acid

Hazard statements H301+H331 Toxic if swallowed or if inhaled.

H310 Fatal in contact with skin.

H314 Causes severe skin burns and eye damage.

Precautionary statements P262 Do r

P262 Do not get in eyes, on skin, or on clothing.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P308+P313 IF exposed or concerned: Get medical advice/ attention.
P320 Specific treatment is urgent (see medical advice on this label).
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/ container in accordance with national regulations.

Supplemental label

information

For professional users only.

Contains HYDROFLUORIC ACID ...%, PHOSPHORIC ACID ...%

Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition and information on ingredients

Mixtures

HYDROFLUORIC ACID%	5<10%
CAS number: 7664-39-3	
Classification	

Acute Tox. 2 - H300 Acute Tox. 1 - H310 Acute Tox. 2 - H330 Skin Corr. 1A - H314 Eye Dam. 1 - H318 STOT SE 3 - H335

PHOSPHORIC ACID ...% 5<10%

CAS number: 7664-38-2

Classification

Skin Corr. 1B - H314 Eye Dam. 1 - H318

2-BUTOXYETHANOL 0.7<1.0%

CAS number: 111-76-2

Substance with a Community workplace exposure limit.

Classification

Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2A - H319

The full text for all hazard statements is displayed in Section 16.

Red Wheel Acid

SECTION 4: First aid measures

Description of first aid measures

General information

CAUTION! First aid personnel must be aware of own risk during rescue! First aid personnel should wear appropriate protective equipment during any rescue. Get medical attention immediately. Effects may be delayed. Keep affected person under observation. Show this Safety Data Sheet to the medical personnel. Chemical burns must be treated by a physician.

Inhalation

Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Place unconscious person on their side in the recovery position and ensure breathing can take place. Symptoms of lung oedema (shortness of breath) may develop up to 24 hours after exposure. Get medical attention immediately.

Ingestion

Rinse mouth thoroughly with water. Remove any dentures. Give a few small glasses of water or milk to drink. Give milk instead of water if readily available. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Place unconscious person on their side in the recovery position and ensure breathing can take place. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. Get medical attention immediately.

Skin Contact

It is important to remove the substance from the skin immediately. Take off immediately all contaminated clothing. Care should be taken to avoid contact with contaminants when removing contaminated clothing. First aid personnel should wear appropriate protective equipment during any rescue. Rinse immediately with plenty of water. Continue to rinse for at least 10 minutes. Apply Calcium Gluconate Gel over the affected areas. Get medical attention immediately. Effects may be delayed. Chemical burns must be treated by a physician. Show this Safety Data Sheet to the medical personnel. Wash contaminated clothing before reuse.

Eye contact

Get medical attention immediately. Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes. Consult a physician for specific advice. Effects may be delayed. Medical aid should instil several drops of sterile calcium gluconate solution. Show this Safety Data Sheet to the medical personnel.

Protection of first aiders

First aid personnel should wear appropriate protective equipment during any rescue. Wash contaminated clothing thoroughly with water before removing it from the affected person, or wear gloves. It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation.

Most important symptoms and effects, both acute and delayed

General information

See Section 11 for additional information on health hazards. Effects may be delayed. Keep affected person under observation. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation

A single exposure may cause the following adverse effects: Corrosive to the respiratory tract. Symptoms following overexposure may include the following: Delayed, often serious, breathing problems. Severe irritation of nose and throat.

Ingestion

May cause chemical burns in mouth, oesophagus and stomach. Symptoms following overexposure may include the following: Severe stomach pain. Nausea, vomiting. Ingestion of even small quantities may be fatal.

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Skin contact A single exposure may cause the following adverse effects: Pain. Unconsciousness, possibly

death. Reddened skin if chemical is not removed by washing. Later, white and wrinkled skin

without pain, often with delayed skin burns.

Eye contact Causes serious eye damage. Symptoms following overexposure may include the following:

Pain. Profuse watering of the eyes. Redness. Vapour or spray may cause eye damage,

impaired sight or blindness.

Indication of any immediate medical attention and special treatment needed

Notes for the doctor

Specific notes for fluoride derivatives: Keep affected person under observation. If calcium gluconate gel is available, rub it into affected skin. Do not use this method for treatment of eyes. Massage continuously until pain disappears. If ingested, give milk or calcium gluconate by mouth. Development of symptoms may be delayed for 24 to 48 hours.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media

The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

Special hazards arising from the substance or mixture

Specific hazards

Containers can burst violently or explode when heated, due to excessive pressure build-up. This product is toxic. Severe corrosive hazard. Water used for fire extinguishing, which has been in contact with the product, may be corrosive.

Hazardous combustion products

Thermal decomposition or combustion products may include the following substances: Very toxic or corrosive gases or vapours. Hydrogen fluoride (HF).

Advice for firefighters

Protective actions during firefighting

Avoid breathing fire gases or vapours. Evacuate area. Keep upwind to avoid inhalation of gases, vapours, fumes and smoke. Ventilate closed spaces before entering them. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

Special protective equipment for firefighters

Regular protection may not be safe. Wear chemical protective suit. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to Australia/New Zealand Standards AS/NZS 4967 (for clothing) AS/NZS 1801 (for helmets), AS/NZS 4821 (for protective boots), AS/NZS 1801 (for protective gloves) will provide a basic level of protection for chemical incidents.

Hazchem Code 2X

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions

No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage. Ensure procedures and training for emergency decontamination and disposal are in place. Do not touch or walk into spilled material. Avoid inhalation of dust and vapours. Use suitable respiratory protection if ventilation is inadequate. Avoid contact with skin and eyes. Avoid contact with contaminated tools and objects.

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Environmental precautions

Environmental precautions

Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment. Large Spillages: Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

Methods and material for containment and cleaning up

Methods for cleaning up

Wear protective clothing as described in Section 8 of this safety data sheet. Do not touch or walk into spilled material. Clear up spills immediately and dispose of waste safely. This product is corrosive. Provide adequate ventilation. Approach the spillage from upwind. Small Spillages: Neutralise with alkali. If the product is soluble in water, dilute the spillage with water and mop it up. Alternatively, or if it is not water-soluble, absorb the spillage with an inert, dry material and place it in a suitable waste disposal container. Large Spillages: If leakage cannot be stopped, evacuate area. Flush spilled material into an effluent treatment plant, or proceed as follows. Contain and absorb spillage with sand, earth or other non-combustible material. Place waste in labelled, sealed containers. Clean contaminated objects and areas thoroughly, observing environmental regulations. The contaminated absorbent may pose the same hazard as the spilled material. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Neutralise with alkali. Neutralise spilled material with crushed limestone, slaked lime (calcium hydroxide), soda ash (sodium carbonate) or sodium bicarbonate. Caution. May generate heat. Following dilution and neutralisation, discharge to the sewer with plenty of water may be permitted. The requirements of the local water authority must be complied with if contaminated water is flushed directly to the sewer. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Reference to other sections

Reference to other sections

For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage, including how the chemical may be safely used

Precautions for safe handling

Usage precautions

Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use. Avoid the formation of mists. This product is toxic. This product is corrosive. Immediate first aid is imperative. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Antidote must be found in place of work.

Advice on general occupational hygiene

Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.

Conditions for safe storage, including any incompatibilities

Storage precautions

Store in accordance with local regulations. Store away from the following materials: Alkalis. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Store at temperatures between 5°C and 35°C. Keep containers upright. Protect containers from damage. Bund storage facilities to prevent soil and water pollution in the event of spillage. The storage area floor should be leak-tight, jointless and not absorbent.

Storage class

Corrosive storage. Toxic storage.

Specific end use(s)

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Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls and personal protection

Control parameters

Occupational exposure limits

HYDROFLUORIC ACID ...%

Ceiling value: 3 ppm 2.6 mg/m3

as F

PHOSPHORIC ACID ...%

Long-term exposure limit (8-hour TWA): 1 mg/m³ Short-term exposure limit (15-minute): 3 mg/m³

2-BUTOXYETHANOL

Long-term exposure limit (8-hour TWA): 20 ppm 96.9 mg/m³ Short-term exposure limit (15-minute): 50 ppm 242 mg/m³

Sk

Sk = Absorption through the skin may be a significant source of exposure.

Exposure controls

Protective equipment









Appropriate engineering controls

Provide adequate ventilation. Personal, workplace environment or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimise worker exposure. Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control measures. Ensure control measures are regularly inspected and maintained. Ensure operatives are trained to minimise exposure.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with Australia/New Zealand Standard AS/NZS 1337. Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Neoprene. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with Australia/New Zealand Standard AS/NZS 2161. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.

Other skin and body protection

Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.

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Hygiene measures Provide eyewash station and safety shower. Contaminated work clothing should not be

allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Preventive industrial medical examinations should be carried

out. Warn cleaning personnel of any hazardous properties of the product.

Respiratory protection Respiratory protection complying with an approved standard should be worn if a risk

assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and complies with Australia/New Zealand Standard AS/NZS 1716. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with Australia/New Zealand Standard AS/NZS 1716. Full face mask respirators with replaceable filter cartridges should comply with Australia/New Zealand Standard AS/NZS 1716. Half mask and quarter mask respirators with

replaceable filter cartridges should comply with Australia/New Zealand Standard AS/NZS

1716.

Environmental exposure

controls

Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. Store in a demarcated bunded area to prevent release to drains and/or watercourses.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance Liquid.

Colour Red.

Odour Acidic.

Odour threshold Not available.

pH (concentrated solution): ~ 1.0

Melting point ~ 0°C

Initial boiling point and range ~ 100°C @ 760 mm Hg

Flash point Not applicable.

Evaporation rate Not available.

Flammability Limit - Lower(%) Not applicable.

Vapour pressure Not available.

Tapon process

Relative density ~ 1.055 @ 20°C

Solubility Value (g/100g H2O

Decomposition Temperature

20°C)

Soluble in water. Miscible with water.

Not available.

Partition coefficient Not available.

Auto-ignition temperature Not applicable.

Viscosity ~1 cSt @ 20°C

Oxidising properties Not applicable.

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Comments Information declared as "Not available" or "Not applicable" is not considered to be relevant to

the implementation of the proper control measures.

Volatile organic compound This product contains a maximum VOC content of 0 g/litre.

SECTION 10: Stability and reactivity

Reactivity There are no known reactivity hazards associated with this product. Reacts with alkalis and

generates heat.

Stable at normal ambient temperatures and when used as recommended. Stable under the

prescribed storage conditions.

Possibility of hazardous

reactions

No potentially hazardous reactions known.

Conditions to avoid There are no known conditions that are likely to result in a hazardous situation.

Materials to avoid Alkalis. Amines.

Hazardous decomposition

products

Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Corrosive gases or vapours.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅o) Acute Tox. 3 - H301 Toxic if swallowed.

ATE oral (mg/kg) 56.24

Acute toxicity - dermal

Notes (dermal LD₅₀) Acute Tox. 2 - H310 Fatal in contact with skin.

ATE dermal (mg/kg) 56.24

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Acute Tox. 4 - H332 Harmful if inhaled.

ATE inhalation (vapours mg/l) 5.62

ATE inhalation (dusts/mists

0.56

mg/l)

Skin corrosion/irritation

Animal data Skin Corr. 1A - H314 Causes severe burns.

Extreme pH ≤ 2 Corrosive.

Serious eye damage/irritation

Serious eye damage/irritation Eye Dam. 1 - H318 Corrosive to skin. Corrosivity to eyes is assumed.

Respiratory sensitisation

Respiratory sensitisationBased on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met.

Germ cell mutagenicity

Red Wheel Acid

Genotoxicity - in vitroBased on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

IARC carcinogenicity Contains a substance which may be potentially carcinogenic. IARC Group 3 Not classifiable

as to its carcinogenicity to humans.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity -

Based on available data the classification criteria are not met.

development

Specific target organ toxicity - single exposure

STOT - single exposureNot classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

General information The severity of the symptoms described will vary dependent on the concentration and the

length of exposure.

Inhalation Corrosive to the respiratory tract. Symptoms following overexposure may include the

following: Severe irritation of nose and throat.

Ingestion May cause chemical burns in mouth, oesophagus and stomach. Symptoms following

overexposure may include the following: Severe stomach pain. Nausea, vomiting.

Skin Contact A single exposure may cause the following adverse effects: Pain. Unconsciousness, possibly

death.

Eye contact Causes serious eye damage. Symptoms following overexposure may include the following:

Pain. Profuse watering of the eyes. Redness. Contact with concentrated chemical may very

rapidly cause severe eye damage, possibly loss of sight.

Route of entry Ingestion Inhalation Skin and/or eye contact

Target Organs No specific target organs known.

Toxicological information on ingredients.

HYDROFLUORIC ACID ...%

Toxicological effects This product is toxic.

Other health effects There is no evidence that the product can cause cancer.

Acute toxicity - inhalation

ATE inhalation (vapours 0.5

mg/l)

ATE inhalation 0.05

(dusts/mists mg/l)

9/15

Red Wheel Acid

Acute and chronic health

hazards

This chemical can be hazardous when inhaled and/or touched. Toxic in contact with

skin.

Route of entry Inhalation Skin absorption Ingestion.

Target Organs Bone structure Heart & cardiovascular system Teeth Central nervous system

Medical Symptoms Reddened skin if chemical is not removed by washing. Later, white and wrinkled

skin without pain, often with delayed skin burns.

PHOSPHORIC ACID ...%

Other health effects There is no evidence that the product can cause cancer.

Acute toxicity - oral

Acute toxicity oral (LD₅o

mg/kg)

3,500.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 1,689.0

mg/kg)

Skin sensitisation

Skin sensitisation Not sensitising.

2-BUTOXYETHANOL

Acute toxicity - oral

Acute toxicity oral (LD₅o

mg/kg)

1,300.0

Species Rat

ATE oral (mg/kg) 1,300.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 2,270.0

mg/kg)

Species Rat

1,100.0 ATE dermal (mg/kg)

Acute toxicity - inhalation

ATE inhalation (vapours

11.0

mg/l)

Skin sensitisation

Skin sensitisation Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Gene mutation:: Negative. This substance has no evidence of mutagenic

properties.

Carcinogenicity

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

Red Wheel Acid

Reproductive toxicity

Reproductive toxicity -

fertility

Fertility: - NOAEL 720 mg/kg, , Mouse

Reproductive toxicity -

development

Developmental toxicity: - NOAEL: 100 mg/kg, , Rat

SECTION 12: Ecological Information

Ecotoxicity The product may affect the acidity (pH) of water which may have hazardous effects on aquatic

organisms.

Ecological information on ingredients.

HYDROFLUORIC ACID ...%

Ecotoxicity The product may affect the acidity (pH) of water which may have hazardous effects

on aquatic organisms.

PHOSPHORIC ACID ...%

EcotoxicityThe product may contribute to an excessive enrichment of the aquatic environment

with nutrients. The product may affect the acidity (pH) of water which may have

hazardous effects on aquatic organisms.

2-BUTOXYETHANOL

Ecotoxicity Not regarded as dangerous for the environment.

Toxicity Based on available data the classification criteria are not met.

Ecological information on ingredients.

HYDROFLUORIC ACID ...%

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: ~ 10.6 mg/l, Daphnia magna

PHOSPHORIC ACID ...%

Acute toxicity - fish LC50, : 100 mg/l, Freshwater fish

Acute toxicity - aquatic

invertebrates

EC₅₀, : 29 mg/l, Daphnia magna

NOEC, 72 hours: 100 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

IC₅₀, 72 hours: 590 mg/l, Freshwater algae

2-BUTOXYETHANOL

Acute toxicity - fish LC50, 96 hours: > 100 mg/l, Lepomis macrochirus (Bluegill)

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: 1550 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

 EC_{50} , >: > 100 mg/l,

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Acute toxicity -

EC₅₀, >: > 1000 mg/l,

microorganisms

Chronic toxicity - fish early NOEC, 21 days: > 100 mg/l,

life stage

Chronic toxicity - aquatic

NOEC, 21 days: 100 mg/l, Daphnia magna

invertebrates

Persistence and degradability

Persistence and degradability The degradability of the product is not known.

Ecological information on ingredients.

HYDROFLUORIC ACID ...%

Persistence and degradability

The product contains inorganic substances which are not biodegradable.

PHOSPHORIC ACID ...%

Persistence and degradability

The product contains mainly inorganic substances which are not biodegradable. The other substances in the product are expected to be readily biodegradable.

2-BUTOXYETHANOL

Persistence and degradability

The product is biodegradable.

Biodegradation Water - Degradation (%) 90.4: 28 days

Bioaccumulative potential

Bioaccumulative Potential No data available on bioaccumulation.

Partition coefficient Not available.

Ecological information on ingredients.

HYDROFLUORIC ACID ...%

Bioaccumulative Potential The product does not contain any substances expected to be bioaccumulating.

PHOSPHORIC ACID ...%

Bioaccumulative Potential The product does not contain any substances expected to be bioaccumulating.

2-BUTOXYETHANOL

Bioaccumulative Potential The product is not bioaccumulating.

Partition coefficient : 0.81

Mobility in soil

Mobility The product is water-soluble and may spread in water systems. The product is non-volatile.

Ecological information on ingredients.

HYDROFLUORIC ACID ...%

Red Wheel Acid

Mobility The product is soluble in water.

PHOSPHORIC ACID ...%

Mobility The product is soluble in water.

2-BUTOXYETHANOL

Mobility The product contains volatile organic compounds (VOCs) which will evaporate

easily from all surfaces.

Adsorption/desorption

coefficient

Water - Koc: ~ 67 @ °C

Henry's law constant 0.000016 atm m3/mol @ °C

Surface tension 65 mN/m @ °C

Results of PBT and vPvB assessment

Ecological information on ingredients.

HYDROFLUORIC ACID ...%

Results of PBT and vPvB

assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

PHOSPHORIC ACID ...%

Results of PBT and vPvB

assessment

This product does not contain any substances classified as PBT or vPvB.

2-BUTOXYETHANOL

Results of PBT and vPvB

assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

Other adverse effects

Other adverse effects

None known.

SECTION 13: Disposal considerations

Waste treatment methods

General information

The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

Disposal methods

Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Incineration or landfill should only be considered when recycling is not feasible.

SECTION 14: Transport information

Red Wheel Acid

General For limited quantity packaging/limited load information, consult the relevant modal

documentation using the data shown in this section.

UN number

UN No. (ADG) 1790 UN No. (IMDG) 1790 UN No. (ICAO) 1790

UN proper shipping name

Proper shipping name (ADG) HYDROFLUORIC ACID
Proper shipping name HYDROFLUORIC ACID

(IMDG)

Proper shipping name (ICAO) HYDROFLUORIC ACID

Transport hazard class(es)

ADG class 8
ADG subsidiary risk 6.1

ADG label 8 & 6.1

IMDG class 8
IMDG subsidiary risk 6.1
ICAO class/division 8

ICAO subsidiary risk 6.1

Transport labels





Packing group

ADG packing group II
IMDG packing group II
ICAO packing group II

Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

Special precautions for user

Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

IMDG Code segregation

group

1. Acids

EmS F-A, S-B

Hazchem Code 2X

Red Wheel Acid

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

SECTION 15: Regulatory information

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

Schedule (SUSMP) Schedule 7. Dangerous Poison.

Inventories

Australia - AICS

All the ingredients are listed or exempt.

SECTION 16: Any other relevant information

Training advice Read and follow manufacturer's recommendations. Only trained personnel should use this

material.

Revision comments NOTE: Lines within the margin indicate significant changes from the previous revision.

Issued by Prepared by Autosmart International Ltd, Lynn Lane, Shenstone, Lichfield, Staffordshire,

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Revision date 25/07/2016

Revision 1

SDS No. 21187

SDS status Approved.

Hazard statements in full H300 Fatal if swallowed.

H301 Toxic if swallowed.
H302 Harmful if swallowed.
H310 Fatal in contact with skin.
H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage. H319 Causes serious eye irritation.

H330 Fatal if inhaled. H331 Toxic if inhaled. H332 Harmful if inhaled.

H335 May cause respiratory irritation.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.