SAFETY DATA SHEET
ALLOY WHEEL CLEANER

According to Regulation (EC) No 1907/2006, Annex II, as amended.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name ALLOY WHEEL CLEANER

Internal identification L6386

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

Identified uses Cleaning agent.

Uses advised against Use only for intended applications.

1.3. Details of the supplier of the safety data sheet

Supplier

GARDX INTERNATIONAL LTD
UNIT 7 CLOVELLY BUSINESS PARK
CLOVELLY ROAD
SOUTHBOURNE, EMSWORTH
HANTS
PO10 8PE
+44 (0)1243 376426
product@gardx.co.uk

1.4. Emergency telephone number

Emergency telephone (24 hrs) +44 (0) 777 8505 330

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

2.2. Label elements

Hazard statements NC Not Classified

Precautionary statements P102 Keep out of reach of children.
P501 Dispose of contents/ container in accordance with national regulations.

Detergent labelling < 5% cationic surfactants, < 5% EDTA and salts thereof, < 5% non-ionic surfactants, < 5% perfumes, < 5% phosphates, Contains LIMONENE, 1,2-BENZOISOTHIAZOL-3(2H)-ONE, METHYLISOTHIAZOLINONE

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation If spray/mist has been inhaled, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.

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Ingestion Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention.

Skin contact Rinse with water. Get medical attention if any discomfort continues.

Eye contact Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation Upper respiratory irritation.

Ingestion Gastrointestinal symptoms, including upset stomach.

Skin contact Product has a defatting effect on skin.

Eye contact May cause irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use fire-extinguishing media suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products Thermal decomposition or combustion products may include the following substances: Carbon dioxide (CO2). Carbon monoxide (CO).

5.3. Advice for firefighters

Protective actions during firefighting No specific firefighting precautions known.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Do not touch or walk into spilled material. Avoid contact with skin, eyes and clothing. Take care as floors and other surfaces may become slippery. Wash thoroughly after dealing with a spillage.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Contain and absorb spillage with sand, earth or other non-combustible material. Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage.

6.4. Reference to other sections

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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Usage precautions Wear protective gloves. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store at temperatures between 4°C and 40°C.

Storage class Unspecified storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Ingredient comments No exposure limits known for ingredient(s).

TETRA POTASSIUM PYROPHOSPHATE (CAS: 7320-34-5)

DNEL
Industry - Inhalation; Long term systemic effects: 2.79 mg/m³
Consumer - Inhalation; Long term systemic effects: 0.68 mg/m³

PNEC
- Fresh water; 0.05 mg/l
- marine water; 0.005 mg/l

ALCOHOL C9-11 ETHOXYLATE (CAS: 68439-46-3)

DNEL
Workers - Inhalation; Long term systemic effects: 294 mg/m³
Workers - Dermal; Long term systemic effects: 2080 mg/kg/day
General population - Inhalation; Long term systemic effects: 87 mg/m³
General population - Dermal; Long term systemic effects: 1250 mg/kg/day
General population - Oral; Long term systemic effects: 25 mg/kg/day

PNEC
- Fresh water; 0.10379 mg/l
- marine water; 0.10379 mg/l
- Fresh water, Intermittent release; 0.014 mg/l
- Sediment (Freshwater); 13.7 mg/kg
- Sediment (Marinewater); 13.7 mg/kg
- Soil; 1 mg/kg
- STP; 1.4 mg/l

Quaternary ammonium compounds, benzyl-C12-14 (even numbered)-alkyldimethyl, chlorides (CAS: 68424-85-1)

DNEL
Industry - Dermal; Long term systemic effects: 5.7 mg/kg/day
Industry - Inhalation; Long term systemic effects: 3.96 mg/m³
Consumer - Oral; Long term systemic effects: 3.4 mg/kg/day
Consumer - Dermal; Long term systemic effects: 3.4 mg/kg/day
Consumer - Inhalation; Long term systemic effects: 1.64 mg/m³

PNEC
- Fresh water; .0009 mg/l
- marine water; .00096 mg/l
- Intermittent release; .00016 mg/l
- Sediment (Freshwater); 12.27 mg/kg
- Sediment (Marinewater); 13.09 mg/kg
- Soil; 7.0 mg/kg
- STP; 0.4 mg/l

TETRASODIUM ETHYLENE DIAMINE TETRAACETATE (CAS: 64-02-8)

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DNEL	Workers - Inhalation; Long term local effects, systemic effects: 1.5 mg/m³ Workers - Inhalation; Short term local effects, systemic effects: 3 mg/m³ Consumer - Inhalation; Long term local effects, systemic effects: 0.6 mg/m³ Consumer - Inhalation; Short term local effects, systemic effects: 1.2 mg/m³ Consumer - Oral; Long term systemic effects, local effects: 25 mg/m³
PNEC	- Fresh water; 2.2 mg/l - marine water; 0.22 mg/l - Intermittent release; 1.2 mg/l - STP; 43 mg/l - Soil; 0.72 mg/kg

8.2. Exposure controls

Protective equipment

Eye/face protection Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Tight-fitting safety glasses. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. For exposure up to 4 hours, wear gloves made of the following material: Rubber (natural, latex). Nitrile rubber. Neoprene. Polyvinyl chloride (PVC). To protect hands from chemicals, gloves should comply with European Standard EN374. The selected gloves should have a breakthrough time of at least 4 hours. The breakthrough time for any glove material may be different for different glove manufacturers. 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.

Hygiene measures Wash hands thoroughly after handling.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Clear liquid.

Colour Fluorescent. Green-yellow.

Odour Pleasant, agreeable.

pH pH (concentrated solution): 11.20

Relative density 1.010 @ 25°C

Solubility(ies) Soluble in water.

9.2. Other information

Other information Not determined.

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

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Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Not determined.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Materials to avoid No specific material or group of materials is likely to react with the product to produce a hazardous situation.

10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition or combustion products may include the following substances: Carbon monoxide (CO). Carbon dioxide (CO2).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Inhalation Upper respiratory irritation.

Ingestion Gastrointestinal symptoms, including upset stomach.

Skin contact Product has a defatting effect on skin.

Eye contact May cause temporary eye irritation.

Toxicological information on ingredients.

TETRA POTASSIUM PYROPHOSPHATE

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg) 2,001.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg) 7,940.0

Species Rabbit

Reproductive toxicity

Reproductive toxicity - development Embryotoxicity: - NOAEL: > 128 mg/kg, Oral, Rabbit

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL < 10000 mg/kg, Oral, Rat

ALCOHOL C9-11 ETHOXYLATE

Acute toxicity - oral

ATE oral (mg/kg) 500.0

Quaternary ammonium compounds, benzyl-C12-14 (even numbered)-alkyldimethyl, chlorides

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Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	397.5
Species	Rat
ATE oral (mg/kg)	397.5

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	3,412.0
Species	Rabbit

TETRASODIUM ETHYLENE DIAMINE TETRAACETATE

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	1,780.0
Species	Rat
ATE oral (mg/kg)	1,780.0

Acute toxicity - inhalation

Notes (inhalation LC_{50})	
ATE inhalation (gases ppm)	11,250.0
ATE inhalation (vapours mg/l)	27.5
ATE inhalation (dusts/mists mg/l)	3.75

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity

Acute toxicity - fish Not determined.

Ecological information on ingredients.

TETRA POTASSIUM PYROPHOSPHATE

Acute aquatic toxicity

Acute toxicity - fish	LC50, 96 hours: > 100 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 100 mg/l, Daphnia magna
Acute toxicity - aquatic plants	IC_{50}, 72 hours: 100 mg/l, Freshwater algae

ALCOHOL C9-11 ETHOXYLATE

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 96 hours: 57 mg/l, Oncorhynchus mykiss (Rainbow trout)

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Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 2.5 mg/l, Daphnia magna

Quaternary ammonium compounds, benzyl-C12-14 (even numbered)-alkyldimethyl, chlorides

Acute aquatic toxicity

$LE(C)_{50}$	0.01 < L(E)C50 ≤ 0.1
M factor (Acute)	10
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 0.03 mg/l mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC_{50}, 96 hours: ~ 0.06 mg/l, Selenastrum capricornutum

Chronic aquatic toxicity

M factor (Chronic)	1

TETRASODIUM ETHYLENE DIAMINE TETRAACETATE

Acute aquatic toxicity

Acute toxicity - fish	LC50, 96 hours: > 100 mg/l, Lepomis macrochirus (Bluegill)
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: >100 mg/l, Daphnia magna

12.2. Persistence and degradability

Persistence and degradability The product is expected to be biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential The product is not bioaccumulating.

12.4. Mobility in soil

Mobility The product is soluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects Not determined.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

Special Provisions note

14.1. UN number

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Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

SECTION 15: Regulatory information

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

National regulations	Control of Substances Hazardous to Health Regulations 2002 (as amended).
EU legislation	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents (as amended).
Guidance	Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	PNEC: Predicted No Effect Concentration. DNEL: Derived No Effect Level. PBT: Persistent, Bioaccumulative and Toxic substance. vPvB: Very Persistent and Very Bioaccumulative.
Classification abbreviations and acronyms	Eye Irrit. = Eye irritation Acute Tox. = Acute toxicity Eye Dam. = Serious eye damage Skin Corr. = Skin corrosion Aquatic Acute = Hazardous to the aquatic environment (acute) Aquatic Chronic = Hazardous to the aquatic environment (chronic) STOT RE = Specific target organ toxicity-repeated exposure
Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.
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