SAFETY DATA SHEET
ALLOY WHEEL CLEANER

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.
ALLOY WHEEL CLEANER

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
ALLOY WHEEL CLEANER

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)
ALLOY WHEEL CLEANER

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
ALLOY WHEEL CLEANER

**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**

<table>
<thead>
<tr>
<th>Acute toxicity oral (LD₅₀ mg/kg)</th>
<th>2,001.0</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Species</strong></td>
<td>Rat</td>
</tr>
</tbody>
</table>

**Acute toxicity - dermal**

<table>
<thead>
<tr>
<th>Acute toxicity dermal (LD₅₀ mg/kg)</th>
<th>7,940.0</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Species</strong></td>
<td>Rabbit</td>
</tr>
</tbody>
</table>

**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
ALLOY WHEEL CLEANER

Acute toxicity - oral
Acute toxicity oral (LD₅₀ mg/kg) 397.5
Species Rat
ATE oral (mg/kg) 397.5

Acute toxicity - dermal
Acute toxicity dermal (LD₅₀ mg/kg) 3,412.0
Species Rabbit

TETRASODIUM ETHYLENE DIAMINE TETRAACETATE

Acute toxicity - oral
Acute toxicity oral (LD₅₀ mg/kg) 1,780.0
Species Rat
ATE oral (mg/kg) 1,780.0

Acute toxicity - inhalation
Notes (inhalation LC₅₀)
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
EC₅₀, 48 hours: 100 mg/l, Daphnia magna

Acute toxicity - aquatic plants
IC₅₀, 72 hours: 100 mg/l, Freshwater algae

ALCOHOL C9-11 ETHOXYLATE

Acute aquatic toxicity
Acute toxicity - fish LC₅₀, 96 hours: 57 mg/l, Oncorhynchus mykiss (Rainbow trout)
ALLOY WHEEL CLEANER

Acute toxicity - aquatic invertebrates

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

EC₅₀, 48 hours: 2.5 mg/l, Daphnia magna

Acute toxicity - aquatic plants

EC₅₀, 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

EC₅₀, 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
ALLOY WHEEL CLEANER

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

<table>
<thead>
<tr>
<th>National regulations</th>
<th>Control of Substances Hazardous to Health Regulations 2002 (as amended).</th>
</tr>
</thead>
</table>

| Guidance             | Workplace Exposure Limits EH40. |

15.2. Chemical safety assessment

<table>
<thead>
<tr>
<th>Abbreviations and acronyms used in the safety data sheet</th>
<th>PNEC: Predicted No Effect Concentration.</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>DNEL: Derived No Effect Level.</td>
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<tr>
<td></td>
<td>PBT: Persistent, Bioaccumulative and Toxic substance.</td>
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<td></td>
<td>vPvB: Very Persistent and Very Bioaccumulative.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Classification abbreviations and acronyms</th>
<th>Eye Irrit. = Eye irritation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Acute Tox. = Acute toxicity</td>
</tr>
<tr>
<td></td>
<td>Eye Dam. = Serious eye damage</td>
</tr>
<tr>
<td></td>
<td>Skin Corr. = Skin corrosion</td>
</tr>
<tr>
<td></td>
<td>Aquatic Acute = Hazardous to the aquatic environment (acute)</td>
</tr>
<tr>
<td></td>
<td>Aquatic Chronic = Hazardous to the aquatic environment (chronic)</td>
</tr>
<tr>
<td></td>
<td>STOT RE = Specific target organ toxicity-repeated exposure</td>
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</tbody>
</table>

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

Revision date
18/12/2019

Revision
2.5
ALLOY WHEEL CLEANER

Supersedes date	20/06/2016
SDS number	24552

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