# **Auto Klene Dust Off**

**Auto Klene Solutions** Chemwatch: 5194-72A Version No: 2.1.1.1

Safety Data Sheet according to WHS and ADG requirements

Chemwatch Hazard Alert Code: 3

Issue Date: 01/07/2017 Print Date: 01/07/2017 Initial Date: Available

S.GHS.AUS.EN

# SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

| Product Identifier                |   |
|-----------------------------------|---|
| Product name                      | Auto Klene Dust Off Fallout Remover                         |
| Synonyms                          | Product #2630   |
| Other means of identification     | Not Available   |
| Relevant identified uses of the   | ne substance or mixture and uses advised against            |
| Relevant identified uses          | Brake dust removal on wheels. Fallout Removal from vehicles |
| Details of the supplier of the    | safety data sheet   |
| Registered company name           | Auto Klene Solutions  |
| Address                           | 1/83 Merrindale Drive VIC Croydon 3136 Australia            |
| Telephone                         | +61 3 8761 1900   |
| Fax                               | +61 3 8761 1955   |
| Website                           | https://www.autoklene.com/msds/                             |
| Email                             | sales@autoklene.com   |
| Emergency telephone number        | er  |
| Association / Organisation        | Not Available   |
| Emergency telephone numbers       | 131 126 (Poisons Information Centre)                        |
| Other emergency telephone numbers | 0408 406 968 (Mark Adams mobile)                            |
|                                   |   |

# Classification of the substance or mixture

# NON-HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

# CHEMWATCH HAZARD RATINGS

|              |   | Min | Max |                         |
|--------------|---|-----|-----|-------------------------|
| Flammability | 0 |     |     |                         |
| Toxicity     | 2 |     |     | 0 = Minimum             |
| Body Contact | 2 |     |     | 1 = Low<br>2 = Moderate |
| Reactivity   | 0 |     |     | 3 = High                |
| Chronic      | 0 |     |     | 4 = Extreme             |

| Poisons Schedule      | S6   |  |  |  |
|-----------------------|--|--|--|--|
| [1]<br>Classification | Acute Toxicity (Oral) Category 4, Skin Corrosion/Irritation Category 2, Serious Eye Damage Category 1, Chronic Aquatic Hazard Category 3 |  |  |  |
| Legend:               | 1. Classified by Chemwatch; 2. Classification drawn from HSIS; 3. Classification drawn from EC Directive 1272/2008 - Annex VI            |  |  |  |

## Label elements

**GHS** label elements



# Hazard statement(s)

H302

Harmful if swallowed.

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| H315                         | Causes skin irritation.  |
|------------------------------|--|
| H320                         | Causes eye irritation.   |
| H412                         | Harmful to aquatic life with long lasting effects.   |
| Precautionary statement(s) F | revention  |
| P280                         | Wear protective gloves/protective clothing/eye protection/face protection.   |
| P270                         | Do not eat, drink or smoke when using this product.  |
| P273                         | Avoid release to the environment.  |
| Precautionary statement(s) F | esponse  |
| P305+P351+P338               | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P310                         | Immediately call a POISON CENTER or doctor/physician.  |
| P362                         | Take off contaminated clothing and wash before reuse.  |
| P301+P312                    | IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.   |
| P302+P352                    | IF ON SKIN: Wash with plenty of soap and water.  |
| P330                         | Rinse mouth.   |
| P332+P313                    | If skin irritation occurs: Get medical advice/attention.   |

# Precautionary statement(s) Storage

Not Applicable

# Precautionary statement(s) Disposal

P501

Dispose of contents/container in accordance with local regulations.

# SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

## Substances

See section below for composition of Mixtures

# Mixtures

| CAS No    | %[weight] | Name                        |
|-----------|-----------|-----------------------------|
| 9002-92-0 | <10       | lauryl alcohol, ethoxylated |
| 144-62-7  | <5        | oxalic acid                 |
| 7732-18-5 | >60       | <u>water</u>                |

# **SECTION 4 FIRST AID MEASURES**

| Description of first aid meas | ures  |
|-------------------------------|---|
| Eye Contact                   | If this product comes in contact with the eyes:  Immediately hold eyelids apart and flush the eye continuously with running water.  Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Footinue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.  Transport to hospital or doctor without delay.  Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. |
| Skin Contact                  | If skin contact occurs:  Immediately remove all contaminated clothing, including footwear.  Flush skin and hair with running water (and soap if available).  Seek medical attention in event of irritation.   |
| Inhalation                    | ▶ If fumes, aerosols or combustion products are inhaled remove from contaminated area. ▶ Other measures are usually unnecessary.  |

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#### IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY.

▶ For advice, contact a Poisons Information Centre or a doctor. ▶

Urgent hospital treatment is likely to be needed.

- ▶ In the mean time, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition.
- ▶ If the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the SDS should be provided. Further action will be the responsibility of the medical specialist.
- ▶ If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the SDS.

# Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed otherwise:

▶ INDUCE vomiting with fingers down the back of the throat, ONLY IF CONSCIOUS. Lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.

NOTE: Wear a protective glove when inducing vomiting by mechanical means.

#### Indication of any immediate medical attention and special treatment needed

As in all cases of suspected poisoning, follow the ABCDEs of emergency medicine (airway, breathing, circulation, disability, exposure), then the ABCDEs of toxicology (antidotes, basics, change absorption, change elimination).

For poisons (where specific treatment regime is absent):

Ingestion

#### BASIC TREATMENT

Establish a patent airway with suction where necessary.

- ▶ Watch for signs of respiratory insufficiency and assist ventilation as necessary.
- Administer oxygen by non-rebreather mask at 10 to 15 L/min.
- ▶ Monitor and treat, where necessary, for pulmonary oedema.
- Monitor and treat, where necessary, for shock
- Anticipate seizures.
- DO NOT use emetics. Where ingestion is suspected rinse mouth and give up to 200 ml water (5 ml/kg recommended) for dilution where patient is able to swallow, has a strong gag reflex and does not drool.

# ADVANCED TREATMENT

#### \_\_\_\_\_

- Consider orotracheal or nasotracheal intubation for airway control in unconscious patient or where respiratory arrest has
- occurred. Positive-pressure ventilation using a bag-valve mask might be of use. Monitor and treat, where necessary, for arrhythmias.
- ▶ Start an IV D5W TKO. If signs of hypovolaemia are present use lactated Ringers solution. Fluid overload might create complications.
- ▶ Drug therapy should be considered for pulmonary oedema.
- ▶ Hypotension with signs of hypovolaemia requires the cautious administration of fluids. Fluid overload might create
- complications. ▶ Treat seizures with diazepam.

▶ Proparacaine hydrochloride should be used to assist eye irrigation.

BRONSTEIN, A.C. and CURRANCE, P.L.

EMERGENCY CARE FOR HAZARDOUS MATERIALS EXPOSURE: 2nd Ed. 1994

- Effective therapy against burns from oxalic acid involves replacement of calcium.
- Intravenous oxalic acid is substantially excreted (88% 90%) in the urine within 36 hours.

Treat symptomatically.

# **SECTION 5 FIREFIGHTING MEASURES**

## **Extinguishing media**

The product contains a substantial proportion of water, therefore there are no restrictions on the type of extinguishing media which may be used. Choice of extinguishing media should take into account surrounding areas.

Though the material is non-combustible, evaporation of water from the mixture, caused by the heat of nearby fire, may produce floating layers of combustible substances. In such an event consider: • foam.

dry chemical powder.carbon dioxide.

# Special hazards arising from the substrate or mixture

# Fire Incompatibility None known. Advice for firefighters Advice for firefighters Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use fire fighting procedures suitable for surrounding area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire.

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#### ▶ The material is not readily combustible under normal conditions.

- ▶ However, it will break down under fire conditions and the organic component may burn.
- ▶ Not considered to be a significant fire risk.
- ▶ Heat may cause expansion or decomposition with violent rupture of containers.
- ▶ Decomposes on heating and may produce toxic fumes of carbon monoxide

(CO). ▶ May emit acrid smoke.

Decomposes on heating and produces toxic fumes of:, carbon dioxide (CO2), other pyrolysis products typical of burning organic material May emit poisonous fumes. May emit corrosive fumes.

# **SECTION 6 ACCIDENTAL RELEASE MEASURES**

Fire/Explosion

Hazard

#### Personal precautions, protective equipment and emergency procedures ▶ Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. ▶ Control personal contact with the substance, by using protective equipment. ▶ Minor Spills Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. ▶ Place in a suitable, labelled container for waste disposal. Moderate hazard. ▶ Clear area of personnel and move upwind.

**Major Spills** 

- ▶ Alert Fire Brigade and tell them location and nature of hazard.
- ▶ Wear breathing apparatus plus protective gloves.
- ▶ Prevent, by any means available, spillage from entering drains or water course.
- ▶ Stop leak if safe to do so.
- ▶ Contain spill with sand, earth or vermiculite.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

#### **SECTION 7 HANDLING AND STORAGE**

| Precautions for safe handling | g  |
|-------------------------------|--|
| Safe handling                 | ▶ DO NOT allow clothing wet with material to stay in contact with skin   |
|                               | ▶ Avoid all personal contact, including inhalation.  |
|                               | ▶ Wear protective clothing when risk of exposure occurs.   |
|                               | ▶ Use in a well-ventilated area.   |
|                               | ▶ Prevent concentration in hollows and sumps.  |
|                               | ▶ DO NOT enter confined spaces until atmosphere has been checked.  |
|                               | ▶ DO NOT allow material to contact humans, exposed food or food utensils.  |
|                               | ▶ Avoid contact with incompatible materials.   |
|                               | ▶ Store in original containers.  |
|                               | ▶ Keep containers securely sealed.   |
|                               | ▶ Store in a cool, dry, well-ventilated area.  |
| Other information             | ▶ Store away from incompatible materials and foodstuff containers.   |
|                               | ▶ Protect containers against physical damage and check regularly for leaks.  |
|                               | ▶ Observe manufacturer's storage and handling recommendations contained within this SDS.                                   |
| Conditions for safe storage,  | including any incompatibilities  |
|                               | ▶ Polyethylene or polypropylene container.   |
| Suitable container            | ▶ Packing as recommended by manufacturer.  |
| Cultable Container            | ▶ Check all containers are clearly labelled and free from leaks.   |
|                               | Oxalic acid (and its dihydrate):   |
|                               | react violently with strong oxidisers, bromine, furfuryl alcohol, hydrogen peroxide (90%), phosphorous trichloride, silver |
| Storage                       | powders ▶ reacts explosively with chlorites and hypochlorites  |
| incompatibility               | ▶ mixture with some silver compounds form explosive salts of silver oxalate  |
|                               | ▶ is incompatible with caustics and alkalis, urea, alkaline metals and steel ▶   |
|                               | attacks polyvinyl alcohol and acetal plastics  |

# SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Control parameters**

# **OCCUPATIONAL EXPOSURE LIMITS (OEL)**

# INGREDIENT DATA

| Source                          | Ingredient  | Material name | TWA     | STEL    | Peak          | Notes         |
|---------------------------------|-------------|---------------|---------|---------|---------------|---------------|
| Australia Exposure<br>Standards | oxalic acid | Oxalic acid   | 1 mg/m3 | 2 mg/m3 | Not Available | Not Available |

## EMERGENCY LIMITS

| EMERGENO! EMILIO |               |        |        |        |
|------------------|---------------|--------|--------|--------|
| Ingredient       | Material name | TEEL-1 | TEEL-2 | TEEL-3 |

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| lauryl alcohol, ethoxylated | Brij-35; (alpha-Dodecyl-omega-hydroxypoly(oxyethylene)) |                  | 1 mg/m3 | 11 mg/m3  | 200 mg/m3 |
|-----------------------------|---|------------------|---------|-----------|-----------|
| oxalic acid                 | Oxalic acid, anhydrous; (Ethanedioic acid)              |                  | 2 mg/m3 | 7.4 mg/m3 | 500 mg/m3 |
| Ingredient                  | Original IDLH Revised IDLH                              |                  |         |           |           |
| lauryl alcohol, ethoxylated | Not Available Not Available                             |                  |         |           |           |
| oxalic acid                 | 500 mg/m3   | 500 [Unch] mg/m3 |         |           |           |
| water                       | Not Available Not Available                             |                  |         |           |           |
| Evnocuro controle           |   |                  |         |           |           |

#### Exposure controls

#### Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a

ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure.

#### Personal protection











Eye and face

protection

- ▶ Safety glasses with side shields.
- ▶ Chemical goggles.
- ▶ Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable.

#### Skin protection

See Hand protection below

# Hands/feet protection

- ▶ Wear chemical protective gloves, e.g. PVC.
- ▶ Wear safety footwear or safety gumboots, e.g. Rubber

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.

Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include:

- ▶ frequency and duration of contact, ▶ chemical resistance of glove material,
- alove thickness and
- dexterity

Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent).

- ▶ When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.
- ▶ When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.

#### **Body protection**

See Other protection below

# Other protection

- Overalls.
- ▶ P.V.C. apron.
- ▶ Barrier cream.
- Skin cleansing cream.
- ▶ Eye wash unit

# Thermal hazards

Not Available

# Recommended material(s)

# GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the computergenerated selection:

| Material         | СРІ |
|------------------|-----|
| BUTYL            | С   |
| NATURAL RUBBER   | С   |
| NATURAL+NEOPRENE | С   |

| NEOPRENE         | С |
|------------------|---|
| NEOPRENE/NATURAL | С |
| NITRILE          | С |
| NITRILE+PVC      | С |
| PVA              | С |
| PVC              | С |
| VITON            | С |

\* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

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C: Poor to Dangerous Choice for other than short term immersion **NOTE**: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

\*Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

# SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

# Respiratory protection

Type AK-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

| Required Minimum<br>Protection Factor | Half-Face<br>Respirator | Full-Face<br>Respirator   | Powered Air<br>Respirator   |
|---------------------------------------|-------------------------|---------------------------|-----------------------------|
| up to 10 x ES                         | AK-AUS P2               | -                         | AK-PAPR-AUS /<br>Class 1 P2 |
| up to 50 x ES                         | -                       | AK-AUS /<br>Class<br>1 P2 | -                           |
| up to 100 x ES                        | -                       | AK-2 P2                   | AK-PAPR-2 P2 ^              |

^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G =

Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB =

Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

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| Solubility in water (g/L) | Miscible      | pH as a solution<br>(1%) | Not Available |
|---------------------------|---------------|--------------------------|---------------|
| Vapour density (Air = 1)  | Not Available | VOC g/L                  | Not Available |

#### Information on basic physical and chemical properties

| illiorillation on basic physica              | ar and chemical properties |   |                |
|--|----------------------------|---|----------------|
| Appearance                                   | Clear liquid.              |   |                |
| Physical state                               | Liquid                     | Relative density (Water = 1)                | Not Available  |
| Odour  | Not Available              | Partition coefficient n-<br>octanol / water | Not Available  |
| Odour threshold                              | Not Available              | Auto-ignition<br>temperature<br>(°C)        | Not Applicable |
| pH (as supplied)                             | 3.2                        | Decomposition temperature                   | Not Available  |
| Melting point /<br>freezing<br>point (°C)    | ~0                         | Viscosity (cSt)                             | Not Available  |
| Initial boiling point and boiling range (°C) | ~100                       | Molecular weight (g/mol)                    | Not Applicable |
| Flash point (°C)                             | Not Applicable             | Taste                                       | Not Available  |
| Evaporation rate                             | Not Available              | Explosive properties                        | Not Available  |
| Flammability                                 | Not Applicable             | Oxidising properties                        | Not Available  |
| Upper Explosive Limit (%)                    | Not Applicable             | Surface Tension (dyn/cm or mN/m)            | Not Available  |
| Lower Explosive Limit<br>(%)                 | Not Applicable             | Volatile Component (%vol)                   | Not Available  |
| Vapour pressure<br>(kPa)                     | 2 @ 20 degC                | Gas group                                   | Not Available  |

# **SECTION 10 STABILITY AND REACTIVITY**

| Reactivity                         | See section 7  |
|------------------------------------|--|
| Chemical stability                 | <ul> <li>▶ Unstable in the presence of incompatible materials.</li> <li>▶ Product is considered stable.</li> <li>▶ Hazardous polymerisation will not occur.</li> </ul> |
| Possibility of hazardous reactions | See section 7  |
| Conditions to avoid                | See section 7  |
| Incompatible materials             | See section 7  |
| Hazardous decomposition products   | See section 5  |

# **SECTION 11 TOXICOLOGICAL INFORMATION**

# Information on toxicological effects

Not normally a hazard due to non-volatile nature of product

Inhaled Acute effects from inhalation of high vapour concentrations may be chest and nasal irritation with coughing, sneezing, headache and even nausea.

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|                              | Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual.  Oxalic acid is a minor, normal body constituent occurring in blood, kidney, muscle and liver at very low concentrations. Higher concentrations are   |  |  |
|------------------------------|---|--|--|
| Ingestion                    | toxic. Ingestion of 5 grams has caused death within hours. It is a poison which affects the central nervous system and kidney function. Low doses may   |  |  |
|                              | cause low blood calcium concentration.  This material can cause inflammation of the skin on contact in some   |  |  |
| Skin Contact                 | persons. The material may accentuate any pre-existing dermatitis condition  Solutions of 5% to 10% oxalic acid are irritating to the skin after prolonged contact; early gangrene may occur after hand immersion in oxalate solutions. One of the mechanisms of skin irritation caused by surfactants is considered to be denaturation of the proteins of skin. It has also been established that there is a connection between the potential of surfactants to denature protein in vitro and their effect on the skin. Nonionic surfactants do not carry any net charge and, therefore, they can only form hydrophobic bonds with proteins. For this reason, proteins are not deactivated by nonionic surfactants, and proteins with poor solubility are not solubilized by nonionic surfactants  Open cuts, abraded or irritated skin should not be exposed to this material  |  |  |
|                              | Entry into the blood-stream, through, for example, cuts, abrasions or lesic prior to the use of the material and ensure that any external damage is su  | ,  |  |
| Еуе                          | If applied to the eyes, this material causes severe eye damage.  Non-ionic surfactants can cause numbing of the cornea, which masks discomfort normally caused by other agents and leads to corneal injury.  Irritation varies depending on the duration of contact, the nature and concentration of the surfactant.  |  |  |
| Chronic                      | Substance accumulation, in the human body, may occur and may cause s  | some concern following repeated or long-term occupational exposure.  |  |
|                              | TOXICITY  | IRRITATION   |  |
| Auto Klene Wheel Cleaner     |   |  |  |
|                              |   | <br> -   |  |
|                              | Not Available   | Not Available  |  |
|                              | TOXICITY  | IRRITATION   |  |
|                              |   |  |  |
| laurul alaah al athaurdata d | [2]   |  |  |
| lauryl alcohol, ethoxylated  | rol   | Eye (rabbit): 0.75 mg/24h SEVERE   |  |
|                              | Oral (rat) LD50: 1000 mg/kgfd   | Eye (rabbit): 100 mg   |  |
|                              |   | Skin (rabbit): 500 mg/24h mild   |  |
|                              | i   | Skin (rabbit): 75 mg/24h mild  |  |
|                              |   |  |  |
|                              | TOXICITY  | IRRITATION   |  |
| avalia asid                  |   |  |  |
| oxalic acid                  | D   | Not Available  |  |
|                              | Dermal (rabbit) LD50: 2000 mg/kg  | Not Available  |  |
|                              | Oral (rat) LD50: 1.08 ml/100 <sup>1</sup>   |  |  |
|                              | TOXICITY  | IRRITATION   |  |
| water                        |   |  |  |
|                              | [2]<br>Oral (rat) LD50: >90000 mg/kgNot Available   |  |  |
| Legend:                      | Value obtained from Europe ECHA Registered Substances - Acute toxic   | city 2.* Value obtained from manufacturer's SDS. Unless otherwise specified  |  |
|                              | data extracted from RTECS - Register of Toxic Effect of chemical Substan  | nces   |  |
|                              |   | osure to the material ceases. This may be due to a non-allergenic condition or following exposure to high levels of highly irritating compound. Key criteria |  |
| LAURYL ALCOHOL,              | for the diagnosis   |  |  |
| ETHOXYLATED                  | within minutes to hours of a documented exposure to the irritant. A revers  | atopic individual, with abrupt onset of persistent asthma-like symptoms ible airflow pattern, on spirometry, with the presence of moderate to severe         |  |
|                              | bronchial hyperreactivity  on methacholine challenge testing and the lack of minimal lymphocytic inf  | lammation without eosinophilia, have also been included in the criteria  |  |
|                              | for diagnosis of RADS. (A asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. Industrial bronchitis, on the other hand, is a disorder that occurs as result of exposure due to high concentrations of irritating substance (often particulate in nature) and is completely reversible after exposure ceases. The disorder is characterised by dyspnea, cough and mucus production. Both laboratory and animal testing has shown that there is no evidence for alcohol ethoxylates (AEs) causing genetic damage, mutations or cancer. No adverse reproductive or developmental effects were observed.  The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the |  |  |
|                              | production of vesicles, scaling and thickening of the skin.   |  |  |

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| OXALIC ACID                          | Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. Industrial bronchitis, on the other hand, is a disorder that occurs as result of exposure due to high concentrations of irritating substance (often particulate in nature) and is completely reversible after exposure ceases. The disorder is characterised by dyspnea, cough and mucus production. |   |  |
|--------------------------------------|--|---|--|
| WATER                                | No significant acute toxicological data identified in literature search.   |   |  |
| Acute Toxicity                       | Carcinogenicity  |   |  |
| Skin Irritation/Corrosion            | Reproductivity   |   |  |
| Serious Eye<br>Damage/Irritation     | STOT - Single Exposure   | 0   |  |
| Respiratory or Skin<br>sensitisation | STOT - Repeated Exposure   | 0   |  |
| Mutagenicity                         | Aspiration Hazard  |   |  |
|                                      | l anamala 💟  | Data available but done and fill the evitoria few done if actions |  |

Legend: X – Data available but does not fill the criteria for classific
 Data required to make classification available
 Data Not Available to make classification

# **SECTION 12 ECOLOGICAL INFORMATION**

#### Toxicity

| Ingredient                  | Endpoint  | Test Duration (hr) | Species                       | Value         | Source |
|-----------------------------|---|--------------------|-------------------------------|---------------|--------|
| lauryl alcohol, ethoxylated | BCF   | 72                 | Fish                          | 1mg/L         | 4      |
| lauryl alcohol, ethoxylated | LC50  | 96                 | Fish                          | 1.5mg/L       | 4      |
| lauryl alcohol, ethoxylated | EC50  | 504                | Crustacea                     | 0.46mg/L      | 5      |
| lauryl alcohol, ethoxylated | NOEC  | 504                | Crustacea                     | 0.24mg/L      | 5      |
| lauryl alcohol, ethoxylated | EC50  | 72                 | Algae or other aquatic plants | 2.05963mg/L   | 2      |
| oxalic acid                 | EC50  | 48                 | Crustacea                     | 136.9mg/L     | 1      |
| oxalic acid                 | EC50  | 96                 | Algae or other aquatic plants | 91267.289mg/L | 3      |
| oxalic acid                 | LC50  | 96                 | Fish                          | 50.37564mg/L  | 3      |
| oxalic acid                 | NOEC  | 0.33               | Algae or other aquatic plants | 2.03000mg/L   | 4      |
| oxalic acid                 | EC0   | 192                | Algae or other aquatic plants | 80mg/L        | 1      |
| water                       | EC50  | 384                | Crustacea                     | 199.179mg/L   | 3      |
| water                       | EC50  | 96                 | Algae or other aquatic plants | 8768.874mg/L  | 3      |
| water                       | LC50  | 96                 | Fish                          | 897.520mg/L   | 3      |
|                             | Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite |                    |                               |               |        |

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 -

Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) -

Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites. **DO NOT** discharge into sewer or waterways.

# Persistence and degradability

Legend:

| Ingredient                  | Persistence: Water/Soil | Persistence: Air |
|-----------------------------|-------------------------|------------------|
| lauryl alcohol, ethoxylated | LOW                     | LOW              |
| oxalic acid                 | LOW                     | LOW              |
| water                       | LOW                     | LOW              |

Print Date: 23/03/2016

**Auto Klene Wheel Cleaner** 

Bioaccumulative potential

Version No: **2.1.1.1** 

| bioaccumulative potential   |                        |
|-----------------------------|------------------------|
| Ingredient                  | Bioaccumulation        |
| lauryl alcohol, ethoxylated | LOW (LogKOW = 3.6722)  |
| oxalic acid                 | LOW (LogKOW = -1.7365) |
| water                       | LOW (LogKOW = -1.38)   |

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#### **Auto Klene Wheel Cleaner**

Version No: 2.1.1.1

Mobility in soil

| Ingredient                  | Mobility           |
|-----------------------------|--------------------|
| lauryl alcohol, ethoxylated | LOW (KOC = 10)     |
| oxalic acid                 | HIGH (KOC = 1.895) |
| water                       | LOW (KOC = 14.3)   |

#### **SECTION 13 DISPOSAL CONSIDERATIONS**

#### Waste treatment methods

- ▶ Containers may still present a chemical hazard/ danger when empty.
- ▶ Return to supplier for reuse/ recycling if possible.

#### Otherwise

- ▶ If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill
- ▶ Where possible retain label warnings and SDS and observe all notices pertaining to the product.

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

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A Hierarchy of Controls seems to be common - the user should investigate:

▶ Reduction ▶

Reuse

- ▶ Recycling
- ▶ Disposal (if all else fails)

#### Product / Packaging disposal

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type.

Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.

- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains
- It may be necessary to collect all wash water for treatment before disposal.
- ▶ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered

first. Where in doubt contact the responsible authority.

- ▶ Recycle wherever possible.
- ▶ Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
- Dispose of by: burial in a land-fill specifically licenced to accept chemical and / or pharmaceutical wastes or incineration in a licenced apparatus (after admixture with suitable combustible material).
- ▶ Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

# **SECTION 14 TRANSPORT INFORMATION**

# Labels Required

HAZCHEM Not Applicable

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

# **SECTION 15 REGULATORY INFORMATION**

| National Inventory               | Status  |
|----------------------------------|---|
| Australia - AICS                 | Y   |
| Canada - DSL                     | Υ   |
| Canada - NDSL                    | N (lauryl alcohol, ethoxylated; ethanolamine; water; oxalic acid) |
| China - IECSC                    | Y   |
| Europe - EINEC / ELINCS /<br>NLP | Y   |
| Japan - ENCS                     | N (water)   |
| Korea - KECI                     | Y   |

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| New Zealand - NZIoC | Υ  |
|---------------------|--|
| Philippines - PICCS | Y  |
| USA - TSCA          | Y  |
| Legend:             | Y = All ingredients are on the inventory  N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets) |

# **SECTION 16 OTHER INFORMATION**

#### Other information

# Ingredients with multiple cas numbers

| Name                        | CAS No                |
|-----------------------------|-----------------------|
| lauryl alcohol, ethoxylated | 12789-47-8, 9002-92-0 |

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at:

www.chemwatch.net

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.