# **Auto Klene Perfection Polish**

**Auto Klene Solutions** 

Chemwatch Hazard Alert Code: 2

Chemwatch: 10104509C Issue Date: 01/05//2017 Version No: 2.1.1.1

WHS and ADG requirements S.GHS.AUS.EN

Print Date: 01/05/2017 Safety Data Sheet according to

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

| Product Identifier                |   |
|-----------------------------------|---|
| Product name                      | Auto Klene Perfection Polish                          |
| Synonyms                          | High Gloss Vehicle Polish                             |
| Other means of identification     | 1133  |
| Relevant identified uses of th    | ne substance or mixture and uses advised against      |
| Relevant identified uses          | Hand or Machine Polish for Cars and Boats.            |
| Details of the supplier of the    | safety data sheet                                     |
| Registered company name           | Auto Klene Solutions                                  |
| Address                           | 1/83 Merrindale Drive Croydon VIC 3136 Australia      |
| Telephone                         | +61 3 8761 1900                                       |
| Fax                               | +61 3 8761 1955                                       |
| Website                           | https://www.autoklene.com/msds/                       |
| Email                             | Not Available   |
| Emergency telephone number        | er<br>-   |
| Association /<br>Organisation     | Not Available   |
| Emergency telephone numbers       | 131 126 (Poisons Information Centre)                  |
| Other emergency telephone numbers | 0800 764 766 (New Zealand Poisons Information Centre) |
| SECTION 2 HAZARDS ID              | ENTIFICATION  |

# Classification of the substance or mixture

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

# CHEMWATCH HAZARD RATINGS



| Poisons Schedule      | Not Applicable   |  |
|-----------------------|--|--|
| [1]<br>Classification | Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, Specific target organ toxicity - single exposure Category 3 (respiratory tract irritation) |  |
| Legend:               | 1. Classified by Chemwatch; 2. Classification drawn from HSIS; 3. Classification drawn from EC Directive 1272/2008 - Annex VI                                |  |

Label elements

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| Hazard<br>pictogram(s) | <b>(!</b> ) |
|------------------------|-------------|
| SIGNAL WORD            | WARNING     |

Hazard statement(s)

| H315 | Causes skin irritation.           |
|------|-----------------------------------|
| H319 | Causes serious eye irritation.    |
| H335 | May cause respiratory irritation. |

Precautionary statement(s) Prevention

| P271 | Use only outdoors or in a well-ventilated area.                            |
|------|--|
| P261 | Avoid breathing mist/vapours/spray.  |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |

Precautionary statement(s) Response

| P362           | Take off contaminated clothing and wash before reuse.  |
|----------------|--|
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P312           | Call a POISON CENTER or doctor/physician if you feel unwell.   |
| P337+P313      | If eye irritation persists: Get medical advice/attention.  |
| P302+P352      | IF ON SKIN: Wash with plenty of soap and water.  |
| P304+P340      | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.                                 |
| P332+P313      | If skin irritation occurs: Get medical advice/attention.   |

Precautionary statement(s) Storage

| P405      | Store locked up.   |
|-----------|--|
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |

Precautionary statement(s) Disposal

Dispose of contents/container in accordance with local regulations.

# SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

# Substances

See section below for composition of Mixtures

# Mixtures

| Wixtures   |           |   |
|------------|-----------|---|
| CAS No     | %[weight] | Name  |
| 1344-28-1. | <4        | aluminium oxide                             |
| 8042-47-5  | <10       | white mineral oil (petroleum)               |
| 56-81-5    | <10       | glycerol                                    |
| 64742-47-8 | <5        | distillates, petroleum, light, hydrotreated |
| 8001-79-4  | <1        | castor oil                                  |
| 102-71-6   | <1        | <u>triethanolamine</u>                      |

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water

# SECTION 4 FIRST AID MEASURES

>50

| Eye Contact  | If this product comes in contact with the eyes:  ▶ Wash out immediately with fresh 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. ▶ Seek medical attention without delay; if pain persists or recurs seek medical attention.  ▶ 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   | <ul> <li>▶ If fumes or combustion products are inhaled remove from contaminated area.</li> <li>▶ Lay patient down. Keep warm and rested.</li> <li>▶ Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>▶ Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained.</li> <li>▶ Perform CPR if necessary.</li> <li>▶ Transport to hospital, or doctor, without delay.</li> </ul> |
| Ingestion    | <ul> <li>▶ If swallowed do NOT induce vomiting.</li> <li>▶ If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>▶ Observe the patient carefully.</li> <li>▶ Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. ▶ Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. ▶ Seek medical advice.</li> </ul>                               |

Indication of any immediate medical attention and special treatment needed 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

| mixture               |   |  |  |
|-----------------------|---|--|--|
| Fire Incompatibility  | None known.   |  |  |
| vice for firefighters |   |  |  |
| Fire Fighting         | <ul> <li>▶ Alert Fire Brigade and tell them location and nature of hazard.</li> <li>▶ Wear breathing apparatus plus protective gloves.</li> <li>▶ Prevent, by any means available, spillage from entering drains or water courses.</li> <li>▶ Use water delivered as a fine spray to control fire and cool adjacent area.</li> <li>▶ DO NOT approach containers suspected to be hot.</li> <li>▶ Cool fire exposed containers with water spray from a protected location.</li> <li>▶ If safe to do so, remove containers from path of fire.</li> </ul> |  |  |
| Fire/Explosion        | <ul> <li>Combustible.</li> <li>Slight fire hazard when exposed to heat or flame.</li> <li>Heating may cause expansion or decomposition leading to violent rupture of containers. ► On combustion, may emit toxic fumes of carbon monoxide (CO).</li> <li>► May emit acrid smoke.</li> <li>► Mists containing combustible materials may be explosive. Combustion products include:</li> </ul>  |  |  |
| Hazard                | carbon dioxide (CO2) , acrolein , other pyrolysis products typical of burning organic material. When aluminium oxide dust is dispersed in air, firefighters should wear protection against inhalation of dust particles, which can also contain hazardous substances from the fire absorbed on the alumina particles. May emit poisonous fumes. May emit corrosive fumes.   |  |  |
| HAZCHEM               | Not Applicable  |  |  |

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# **SECTION 6 ACCIDENTAL RELEASE MEASURES**

# Personal precautions, protective equipment and emergency procedures See

section 8

# **Environmental precautions**

See section 12

| Methods and material for containment and cleaning up |   |  |
|--|---|--|
| Minor Spills   | <ul> <li>▶ Remove all ignition sources.</li> <li>▶ Clean up all spills immediately.</li> <li>▶ Avoid breathing vapours and contact with skin and eyes.</li> <li>▶ Control personal contact with the substance, by using protective equipment. ▶ Contain and absorb spill with sand, earth, inert material or vermiculite.</li> <li>▶ Wipe up.</li> <li>▶ Place in a suitable, labelled container for waste disposal.</li> </ul> |  |
| Major Spills   | Moderate hazard.  ▶ Clear area of personnel and move upwind.  ▶ 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. ▶ No smoking, naked lights or ignition sources.  Increase ventilation.   |  |

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

# **SECTION 7 HANDLING AND STORAGE**

| recautions for safe handling |   |
|------------------------------|---|
| Safe handling                | <ul> <li>▶ DO NOT allow clothing wet with material to stay in contact with skin</li> <li>▶ Avoid all personal contact, including inhalation.</li> <li>▶ Wear protective clothing when risk of exposure occurs.</li> <li>▶ Use in a well-ventilated area.</li> <li>▶ Prevent concentration in hollows and sumps.</li> <li>▶ DO NOT enter confined spaces until atmosphere has been checked.</li> </ul> |
|                              | ► DO NOT effect confined spaces until atmosphere has been checked.  ► DO NOT allow material to contact humans, exposed food or food utensils.  ► Avoid contact with incompatible materials.   |
| Other information            | <ul> <li>▶ Store in original containers.</li> <li>▶ Keep containers securely sealed.</li> <li>▶ No smoking, naked lights or ignition sources.</li> <li>▶ Store in a cool, dry, well-ventilated area.</li> <li>▶ Store away from incompatible materials and foodstuff containers.</li> <li>▶ Protect containers against physical damage and check regularly for leaks.</li> </ul>                      |
|                              | ▶ Observe manufacturer's storage and handling recommendations contained within this SDS.  |

# Conditions for safe storage, including any incompatibilities

| Suitable container      | <ul> <li>▶ Metal can or drum</li> <li>▶ Packaging as recommended by manufacturer.</li> <li>▶ Check all containers are clearly labelled and free from leaks.</li> </ul> |
|-------------------------|--|
| Storage incompatibility | None known   |

# **SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

# **Control parameters**

# OCCUPATIONAL EXPOSURE LIMITS (OEL)

# INGREDIENT DATA

| INOREDIENT DATA                 |                               |                 |           |               |               |               |
|---------------------------------|-------------------------------|-----------------|-----------|---------------|---------------|---------------|
| Source                          | Ingredient                    | Material name   | TWA       | STEL          | Peak          | Notes         |
| Australia Exposure<br>Standards | aluminium oxide               | Aluminium oxide | 10 mg/m3  | Not Available | Not Available | Not Available |
| Australia Exposure<br>Standards | white mineral oil (petroleum) | White spirits   | 790 mg/m3 | Not Available | Not Available | Not Available |

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|--|---|------------------------------|---------------|---------------|---------------|----------------------|
| Australia Exposure<br>Standards                | glycerol  | Glycerin mist                | 10 mg/m3      | Not Available | Not Available | Not Available        |
| Australia Exposure<br>Standards                | distillates, petroleum, light, hydrotreated   | Oil mist, refined mineral    | 5 mg/m3       | Not Available | Not Available | Not Available        |
| Australia Exposure<br>Standards                | triethanolamine   | Triethanolamine              | 5 mg/m3       | Not Available | Not Available | Sen                  |
| MERGENCY LIMITS                                |   |                              |               | ·             | <u> </u>      | ·                    |
| ngredient                                      | Material name   |                              |               | TEEL-1        | TEEL-2        | TEEL-3               |
| aluminium oxide                                | Aluminum oxide; (Alumina)   |                              |               | 5.7 mg/m3     | 15 mg/m3      | 25 mg/m3             |
| white mineral oil (petroleum)                  | Stoddard solvent; (Mineral spirits, 85% nona  | ne and 15% trimethyl benzene | e)            | 300 mg/m3     | 1,800 mg/m3   | 29500 mg/m3          |
| glycerol                                       | Glycerine (mist); (Glycerol; Glycerin)  |                              |               | 45 mg/m3      | 860 mg/m3     | 2,500 mg/m3          |
| riethanolamine                                 | Triethanolamine; (Trihydroxytriethylamine)  |                              |               | 15 mg/m3      | 240 mg/m3     | 1,500 mg/m3          |
| ngredient                                      | Original IDLH   |                              | Revised IDLH  |               |               |                      |
| aluminium oxide                                | Not Available   |                              | Not Available |               |               |                      |
| white mineral oil (petroleum)                  | 29,500 mg/m3  |                              | 20,000 mg/m3  |               |               |                      |
| glycerol                                       | Not Available   |                              | Not Available |               |               |                      |
| distillates, petroleum, light,<br>nydrotreated | Not Available   |                              | Not Available |               |               |                      |
| castor oil                                     | Not Available   |                              | Not Available |               |               |                      |
| riethanolamine                                 | Not Available   |                              | Not Available |               |               |                      |
| vater  | Not Available   |                              | Not Available |               |               |                      |
| oosure controls                                |   |                              |               |               |               |                      |
| Appropriate engineering controls               |   |                              |               |               |               |                      |
| Personal<br>protection                         |   |                              |               |               |               |                      |
| Eye and face protection                        | <ul> <li>▶ Safety glasses with side shields.</li> <li>▶ Chemical goggles.</li> <li>▶ 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.</li> </ul>  |                              |               |               |               |                      |
| Skin protection                                | See Hand protection below   |                              |               |               |               |                      |
| Hands/feet<br>protection                       | <ul> <li>▶ Wear chemical protective gloves, e.g. PVC.</li> <li>▶ Wear safety footwear or safety gumboots, e.g. Rubber</li> <li>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.</li> <li>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.</li> <li>Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.</li> </ul> |                              |               |               |               |                      |
| Body protection                                | See Other protection below  |                              |               |               |               |                      |
|  |   |                              |               |               |               |                      |

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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:

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| Material         | СРІ |
|------------------|-----|
| BUTYL            | С   |
| NATURAL RUBBER   | С   |
| NATURAL+NEOPRENE | С   |
| NEOPRENE         | С   |
| NEOPRENE/NATURAL | С   |
| NITRILE          | С   |
| PVA              | С   |
| PVC              | С   |
| VITON            | С   |
| ##castor         | oil |

<sup>\*</sup>CPI - Chemwatch Performance Index

 $\mbox{\bf NOTE}:$  As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

# 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 =

 $\label{eq:agricultural} Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)$ 

Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content. The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

<sup>\*</sup> 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.

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| The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Not normally a hazard due to non-volatile nature of product  |
|---|
| Accidental ingestion of the material may be damaging to the health of the individual. Ingestion may result in nausea, abdominal irritation, pain and vomiting   |
| This material can cause inflammation of the skin on contact in some persons. The material may accentuate any preexisting dermatitis condition  Open cuts, abraded or irritated skin should not be exposed to this material  Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the mate any external damage is suitably protected. |

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This material can cause eye irritation and damage in some persons. Information on basic physical and chemical properties Off White coloured, creamy liquid with a fresh odour. **Appearance** Physical state Relative density (Water = 0.95-1.0 liquid Partition coefficient noctanol / water Odour Not Available Not Available **Auto-ignition** temperature **Odour threshold** Not Available Not Available (°C) Decomposition temperature 7.5-8.5 Not Available pH (as supplied) Melting point freezing 0 Viscosity (cSt) Not Available point (°C) Initial boiling point and Molecular weight boiling range (°C) Not Available (g/mol) Not Applicable Flash point (°C) Not Available Taste **Evaporation rate** Not Available Explosive Not Available properties Flammability Not Applicable Oxidising Not Available properties **Upper Explosive Limit** Surface Tension (dyn/cm or mN/m) Not Available (%) Not Available Lower Explosive Limit Not Available Volatile Component (%vol) Not Available (%) Not Available Gas group Not Available Vapour pressure (kPa) Solubility in water Miscible pH as a solution Not Available (1%) (g/L) Vapour density (Air = Not Available VOC g/L Not Available

# **SECTION 10 STABILITY AND REACTIVITY**

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

**SECTION 11 TOXICOLOGICAL INFORMATION** 

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Oral (rat) LD50: >2000 mg/kgNot Available TOXICITY IRRITATION Dermal (rabbit) LD50: >2000 mg/kg Not Available [1] Oral (rat) LD50: >5000 white mineral mg/kg<sup>[1]</sup> (petroleum) TOXICITY IRRITATION glycerol Oral (rat) LD50: 12600 mg/kgNot Available TOXICITY **IRRITATION** Dermal (rabbit) LD50: >2000 mg/kg Not Available distillates, [1] Oral (rat) LD50: >5000 petroleum, liaht. mg/kg<sup>[1]</sup> hydrotreated TOXICITY IRRITATION Not Available Eye (rabbit): 500 mg mild castor oil Skin (human): 50 mg/48h mild Skin (rabbit): 100 mg/24h SEVERE TOXICITY **IRRITATION** dermal (rat) LD50: >16000 mg/kg,[2] Eye (rabbit): 0.1 ml -[2] triethanolamine

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|   |  | Oral (ra   | r) LD50: 5560 mg/kg(calc.)-   | Eye (rabbit): 10 mg - mild  Eye (rabbit): 5.62 mg - SEVERE  minor conjunctival irritation  no irritation *  Skin (human): 15 mg/3d (int)-mild  |
|---|--|------------|---|--|
|   |  |            |   | Skin (rabbit): 4 h occluded Skin (rabbit): 560 mg/24 hr- mild  |
|   |  | TOXICI     | ГУ  | IRRITATION   |
|   | water  | Not Availa | bla   | Not Available  |
| - |  | Legend: 1  | Value obtained from Europe ECHA Registered Substances - A   | Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise  |
|   | The potential toxicity of a specific d  The adverse effects of thes  The levels of the undesirab  Distillate base oils receiving  The potential toxicity of resi  The reproductive and devel  Unrefined & mildly refined distillate molecules and have shown the high are produced from unrefined and m refined base oils, the highly and seven low mammalian toxicity. Testing of belief that these materials lack biological toxicity testing has consistently shown animal studies, the acute, oral, so semilethal concentration for inhalating skin and eye irritation. Testing for so testes and lung have been observed reproductive toxicity or significant in Oral (rat) TCLc: 92000 mg/kg/92D-shown the long term risk of skin care |            | The potential toxicity of a specific distillate base oil is inverse.  The adverse effects of these materials are associate.  The levels of the undesirable components are inverse.  Distillate base oils receiving the same degree or extended to the control of the | sely related to the degree of processing; ent of processing will have similar toxicities; dent of the degree of processing the oil receives. distillate base oils is inversely related to the degree of processing. Identification of undesirable components, have the largest variation of hydrocarbon using and mutation-causing activities. Highly and severely refined distillate base oils ving or transforming undesirable components. In comparison to unrefined and mildly use oils have a smaller range of hydrocarbon molecules and have demonstrated very causing and cancer-causing potential has shown negative results, supporting the ts or the components are largely non-bioavailable due to their molecular size. oils have low acute toxicities. For highly and severely refined distillate base oils: body weight and the semilethal dose by skin contact is >2g/kg body weight. The materials have varied from "non-irritating" to "moderately irritating" when tested for grative. The effects of repeated exposure vary by species; in animals, effects to the on of granulomas. In animals, these substances have not been found to cause. They are also not considered to cause cancer, mutations or chromosome aberrations, ity and irritation is of low order. White oils and highly/solvent refined oils have not the skin contamination with some other mineral oils, due in all probability to refining that t-alpha-pyrenes (BaP) |
|   |  | LYCEROL    | of low toxicity. There is no significant evidence to suggest the  | may cause tremor, irritation of the skin, eyes, digestive tract and airway. Otherwise it is at it causes cancer, genetic, reproductive or developmental toxicity.  |
|   | PETROLEUM, leather   |            | leathery, with crusts and/or hair loss. It may worsen skin car  | a reversible eye irritation (if eyes are washed). Skin may be cracked or flaky and/or ncers. There may also be loss of weight, discharge from the nose, excessive tiredness, crease in the weight of body organs. There was no evidence of harm to pregnancy.  |
| - | CAS  | STOR OIL   | conjunctivitis. The material may cause severe skin irritation a swelling, the production of vesicles, scaling and thickening of Some tumorigenic effects have been reported in animal stuc process denatures and inactivates the protein. However, har plant surface can cause permanent nerve damage, making the Administration (FDA) has categorized castor oil as "generall with its major site of action the small intestine where it is dig pregnant women, to date there is not enough research to sheavy dose of castor oil was formerly used as a humiliating   | ehydrating effects of the oil-induced diarrhea; however, even those victims who  |

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### GLYCFROL & TRIETHANOLAMINE

Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. 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. On the other hand, industrial bronchitis is a disorder that occurs as a result of exposure due to high concentrations of irritating substance (often particles) and is completely reversible after exposure ceases. The disorder is characterized by difficulty breathing, cough and mucus production.

| Acute Toxicity                   | × | Carcinogenicity          |
|----------------------------------|---|--------------------------|
| Skin Irritation/Corrosion        |   | Reproductivity           |
| Serious Eye<br>Damage/Irritation |   | STOT - Single Exposure   |
| Respiratory or Skin              |   | STOT - Repeated Exposure |
| sensitisation                    |   |                          |
| Mutagenicity                     |   | Aspiration Hazard        |

Legend:

Data available but does not fill the criteria for classification

Data available to make classification

The following information refers to contact allergens as a group and may not be specific to this product.

Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions. The significance of the contact allergen is not simply determined by its sensitisation potential: the distribution of the substance and the opportunities

for contact with it are equally important. A weakly sensitising substance which is widely distributed can be a more important allergen than one with stronger sensitising potential with which few individuals come into contact. From a clinical point of view, substances are noteworthy if they produce an allergic test reaction in more than 1% of the persons tested. Overexposure to most of these materials may cause adverse health

Many amine-based compounds can cause release of histamines, which, in turn, can trigger allergic and other physiological effects, including constriction of the bronchi or asthma and inflammation of the cavity of the nose. Whole-body symptoms include headache, nausea, faintness, anxiety, a decrease in blood pressure, rapid heartbeat, itching, reddening of the skin, urticaria (hives) and swelling of the face, which are usually transient.

# **TRIETHANOLAMINE**

There are generally four routes of possible or potential exposure: inhalation, skin contact, eye contact, and swallowing.

Inhalation: Inhaling vapours may result in moderate to severe irritation of the tissues of the nose and throat and can irritate the lungs. Higher concentrations of certain amines can produce severe respiratory irritation, characterized by discharge from the nose, coughing, difficulty in breathing and chest pain. Chronic

exposure via inhalation may cause headache, nausea, vomiting, drowsiness, sore throat, inflammation of the bronchi and lungs, and possible lung damage. 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

Studies done show that triethanolamine is of low toxicity following high dose exposure by swallowing, skin contact or inhalation. It has not been shown to cause cancer, genetic defects, reproductive or developmental toxicity.

NOTE: Substance has been shown to be mutagenic in at least one assay, or belongs to a family of chemicals producing damage or change to cellular DNA. Lachrymation, diarrhoea, convulsions, urinary tract changes, changes in bladder weight, changes in testicular weight, changes in thymus weight, changes in liver weight, dermatitis after systemic exposure, kidney, ureter, bladder tumours recorded. Equivocal tumourigen by RTECS criteria. Dermal rabbit value quoted above is for occluded patch in male or female animals \* Union Carbide

### ALUMINIUM OXIDE & DISTILLATES. PETROLEUM, LIGHT, **HYDROTREATED &**

No significant acute toxicological data identified in literature search.

WATER WHITE MINERAL OIL

The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans.

(PETROLEUM) & **TRIETHANOLAMINE** 

Evidence of carcinogenicity may be inadequate or limited in animal testing.

- Data Not Available to make classification

# **SECTION 12 ECOLOGICAL INFORMATION**

**Toxicity** 

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**Auto Klene Perfection** Polish **ENDPOINT** TEST DURATION (HR) **SPECIES** VALUE SOURCE NotNotNot Not ApplicableNot Applicable ApplicableApplicableApplicable VALUE SOURCE **ENDPOINT** TEST DURATION (HR) SPECIES 0.0029mg/L LC50 Fish aluminium oxide 0.0054mg/L EC50 96 Algae or other aquatic plants 48 EC50 Crustacea 0.7364mg/L 2 EC50 168 Crustacea 0.0076mg/L NOEC 72 Algae or other aquatic plants >=0.004mg/L 2 SOURCE **ENDPOINT TEST DURATION (HR) SPECIES** VALUE white mineral oil (petroleum) NotNotNot Not ApplicableNot Applicable ApplicableApplicableApplicable

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|                         | ENDPOINT     | TEST DURATION (HR)                       | SPECIES  | VALUE                  | SOURCE     |
|-------------------------|--------------|--|--|------------------------|------------|
| glycerol                | LC50         | 96                                       | Fish   | >11mg/L                | 2          |
|                         | EC50<br>EC0  | 96                                       | Algae or other aquatic plants                                | 77712.039ng/L >500mg/L | 3          |
|                         |              | 1  |  |                        | 1          |
| distillates, petroleum, | ENDPOINT     | TEST DURATION (HR)                       | SPECIES  | VALUE                  | SOURCE     |
| light, hydrotreated     |              |  |  |                        |            |
|                         | LC50         | 96                                       | Fish   | 2.2mg/L                |            |
|                         | NOEC         | 3072                                     | Fish   | =1mg/L                 | <u> </u> 1 |
| castor oil              | FNDPOINT     | TEST DURATION (HR)                       | SPECIES  | VALUE                  | SOURCE     |
|                         | ENDPOINT     | TEST DURATION (HR)                       | SPECIES  | VALUE                  | SOURCE     |
|                         | NotNotNot    | Not ApplicableNot Applicable<br>Applicat | oleApplicableApplicable                                      |                        |            |
|                         | ENDPOINT     | TEST DURATION (HR)                       | SPECIES  | VALUE                  | SOURCE     |
|                         | LC50         | 96                                       | Fish   | 11800mg/L              |            |
| triethanolamine         | EC50         | 96                                       | Algae or other aquatic plants  Algae or other aquatic plants | 169mg/L                | 1          |
|                         | EC10<br>NOEC | 504                                      | Algae or other aquatic plants  Crustacea                     | 7.1mg/L<br>16mg/L      | 1          |
| water                   | ENDPOINT     | TEST DURATION (HR)                       | SPECIES  | VALUE                  | SOURCE     |

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|       | NotNotNot  Not ApplicableNot Applicable  ApplicableApplicableApplicable  |                    |                  |
|-------|--|--------------------|------------------|
| V3.12 | Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - A   | quatic Toxicity 3. | EPIWIN Suite     |
|       | (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC A<br>NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data | juatic Hazard Ass  | sessment Data 6. |

### for lubricating oil base stocks:

Vapor Pressure Vapor pressures of lubricating base oils are reported to be negligible. In one study, the experimentally measured vapour pressure of a solvent-dewaxed heavy paraffinic distillate base oil was 1.7 x 10exp-4 Pa. Since base oils are mixtures of C15 to C50 paraffinic, naphthenic, and aromatic hydrocarbon isomers, representative components of those structures were selected to calculate a range of vapor pressures. The estimated vapor pressure values for these selected components of base oils ranged from 4.5 x 10exp-1 Pa to 2 x 10exp-13Pa. Based on Dalton's Law the expected total vapour pressure for base oils would fall well below minimum levels (10exp-5 Pa) of recommended experimental procedures.

Partition Coefficient (log Kow): In mixtures such as the base oils, the percent distribution of the hydrocarbon groups (i.e., paraffins, naphthenes, and aromatics) and the carbon chain lengths determines in-part the partitioning characteristics of the mixture. Generally, hydrocarbon chains with fewer carbon atoms tend to have lower partition coefficients than those with higher carbon numbers. However, due to their complex composition, unequivocal determination of the log Kow of these hydrocarbon mixtures cannot be made. For Glycerol: Log Kow: -2.66 to -2.47, Atmospheric Fate: Glycerol is broken down in the air by hydroxyl radicals the half-life for this process is 6.8 hours. However, only a negligible amount of the substance will move to the atmospheric compartment. Terrestrial Fate: Only a negligible amount of glycerol will move into the soil compartment, if released into the environment. Aquatic Fate: Glycerol is considered to be readily biodegradable in the aquatic environment. Pre-adapted microorganisms can break glycerol down rapidly in oxygenated/low oxygen waters. The substance is not expected to react with water. When released to water, 100% of the substance will remain in the water compartment - only negligible amounts will be distributed to sediment. Drinking Water Standards: hydrocarbon total: 10 ug/l (UK max.). For Aluminium and its Compunds and Salts: Environmental Fate - As an element, aluminium cannot be degraded in the environment, but may undergo various precipitation or ligand exchange reactions. Aluminium in compounds has only one oxidation state (+3), and would not undergo oxidation-reduction reactions under environmental conditions. Aluminium can be complexed by various ligands present in the environment (e.g., fulvic and humic acids). The solubility of aluminium in the environment will depend on the ligands present and the pH. Atmospheric Fate: Air Quality Standards: none available.

Aquatic Fate: The hydrated aluminium ion undergoes hydrolysis. The speciation of aluminium in water is pH dependent. **DO NOT** discharge into sewer or waterways.

### Persistence and degradability

| Ingredient      | Persistence: Water/Soil | Persistence: Air |
|-----------------|-------------------------|------------------|
| glycerol        | LOW                     | LOW              |
| triethanolamine | LOW                     | LOW              |
| water           | LOW                     | LOW              |

# **Bioaccumulative potential**

| Ingredient                                  | Bioaccumulation      |
|---|----------------------|
| glycerol                                    | LOW (LogKOW = -1.76) |
| distillates, petroleum, light, hydrotreated | LOW (BCF = 159)      |
| triethanolamine                             | LOW (BCF = 3.9)      |
| water                                       | LOW (LogKOW = -1.38) |

# Mobility in soil

| MODILLY III SOII |                  |  |
|------------------|------------------|--|
| Ingredient       | Mobility         |  |
| glycerol         | HIGH (KOC = 1)   |  |
| triethanolamine  | LOW (KOC = 10)   |  |
| water            | LOW (KOC = 14.3) |  |

# **SECTION 13 DISPOSAL CONSIDERATIONS**

# Waste treatment methods

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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 or consult manufacturer for recycling options. ▶

Consult State Land Waste Authority for disposal.

▶ Bury or incinerate residue at an approved site.

Recycle containers if possible, or dispose of in an authorised landfill.

### **SECTION 14 TRANSPORT INFORMATION**

# **Labels Required**

Marine Pollutant

NO

**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**

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

ALUMINIUM OXIDE(1344-28-1.) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards

Australia Inventory of Chemical Substances (AICS)

WHITE MINERAL OIL (PETROLEUM)(8042-47-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

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Australia Exposure Standards Australia Inventory of Chemical Substances (AICS)

Australia Hazardous Substances Information System - Consolidated Lists International Agency for Research on Cancer (IARC) - Agents Classified by the IARC

Monographs

# GLYCEROL(56-81-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards Australia Inventory of Chemical Substances (AICS)

# DISTILLATES, PETROLEUM, LIGHT, HYDROTREATED(64742-47-8) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards Australia Inventory of Chemical Substances (AICS)

Australia Hazardous Substances Information System - Consolidated Lists

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC

Monographs

# CASTOR OIL(8001-79-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

# TRIETHANOLAMINE(102-71-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards Australia Inventory of Chemical Substances (AICS)

Australia Hazardous Substances Information System - Consolidated Lists International Agency for Research on Cancer (IARC) - Agents Classified by the IARC

Monographs

# WATER(7732-18-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

| Australia Inventory of Chemical Substances (AICS) |   |  |
|---|---|--|
| National Inventory                                | Status  |  |
| Australia - AICS                                  | Y   |  |
| Canada - DSL                                      | Y   |  |
| Canada - NDSL                                     | N (glycerol; triethanolamine; water; distillates, petroleum, light, hydrotreated; aluminium oxide; castor oil; white mineral oil (petroleum))   |  |
| China - IECSC                                     | Y   |  |
| Europe - EINEC / ELINCS /<br>NLP                  | Y   |  |
| Japan - ENCS                                      | N (glycerol; triethanolamine; water; distillates, petroleum, light, hydrotreated; aluminium oxide; castor oil; white mineral oil (petroleum))   |  |
| Korea - KECI                                      | Y   |  |
| New Zealand - NZIoC                               | Y   |  |
| 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

| ingredients with multiple cas numbers |   |  |
|---------------------------------------|---|--|
| Name                                  | CAS No  |  |
| glycerol                              | 56-81-5, 29796-42-7, 30049-52-6, 37228-54-9, 75398-78-6, 78630-16-7, 8013-25-0                      |  |
| castor oil                            | 8001-79-4, 64147-40-6, 8006-52-8, 8013-56-7, 8015-57-4, 8021-37-2, 8036-08-6, 8041-95-0, 89958-32-7 |  |

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.

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.

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