# Multi Mix 03 - Heavy Duty Cleaner Degreaser Auto Klene Solutions

Chemwatch: **5199-63**Version No: **6.1.1.1** 

Safety Data Sheet according to WHS and ADG requirements

Observed the Harried Alast Osday

Issue Date: **30/12/2024** Print Date: **01/02/2025** S.GHS.AUS.EN

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

| Product Identifier                 |  |
|------------------------------------|--|
| Product name                       | Multi Mix 03 - Heavy Duty Cleaner Degreaser  |
| Chemical Name                      | Not Applicable   |
| Synonyms                           | heavy duty degreaser   |
| Proper shipping name               | CAUSTIC ALKALI LIQUID, N.O.S. (contains potassium hydroxide)   |
| Chemical formula                   | Not Applicable   |
| Other means of identification      | Not Available  |
| Relevant identified uses of the s  | substance or mixture and uses advised against  |
| Relevant identified uses           | Heavy duty degreaser. Hazards refer to the product in concentrated form. For diluted product, please refer to product label. Use according to manufacturer's directions. |
| Details of the supplier of the saf | ety 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                            | http://www.autoklene.com/msds/   |
| Email                              | Not Available  |
| Emergency telephone number         |  |
| Association /<br>Organisation      | Auto Klene Solutions   |
| Emergency telephone numbers        | 131 126 (Poisons Information Centre)   |
| Other emergency telephone numbers  | 0800 764 766 (New Zealand Poisons Information Centre)  |

# **SECTION 2 Hazards identification**

#### Classification of the substance or mixture

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

| ChemWatch Hazard Ratings |   |          |                         |  |
|--------------------------|---|----------|-------------------------|--|
|                          |   | _MinMax_ |                         |  |
| Flammability             | 0 |          |                         |  |
| Toxicity                 | 1 |          | 0 = Minimum             |  |
| Body Contact             | 4 |          | 1 = Low                 |  |
| Reactivity               | 1 |          | 2 = Moderate            |  |
| Chronic                  | 0 |          | 3 = High<br>4 = Extreme |  |

| Poisons Schedule              | S6  |
|-------------------------------|---|
| Classification <sup>[1]</sup> | Skin Corrosion/Irritation Category 1A, Serious Eye Damage Category 1  |
| Legend:                       | 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI |

Label elements

Version No: **6.1.1.1** Print Date: **01/02/2025** 

Hazard pictogram(s)



Signal word Danger

Hazard statement(s)

H314 Causes severe skin burns and eye damage.

Page 1 continued...

Issue Date: 30/12/2024

| Precautionary statement(s) Pre- | vention  |
|---------------------------------|--|
| P260                            | Do not breathe mist/vapours/spray.   |
| P280                            | Wear protective gloves/protective clothing/eye protection/face protection.   |
| Precautionary statement(s) Res  | ponse  |
| P301+P330+P331                  | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.   |
| P303+P361+P353                  | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.                       |
| 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.  |
| P321                            | Specific treatment (see advice on this label).   |
| P363                            | Wash contaminated clothing before reuse.   |
| P304+P340                       | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.                                 |
| Precautionary statement(s) Sto  | rage   |
| P405                            | Store locked up.   |
| Precautionary statement(s) Dis  | posal  |
| P501                            | Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation. |
|                                 |  |

### **SECTION 3 Composition / information on ingredients**

#### Substances

See section below for composition of Mixtures

### Mixtures

| CAS No        | %[weight] | Name                                       |
|---------------|-----------|--|
| Not Available | 10-30     | surfactants and sequestrants, proprietary  |
| 1310-58-3     | 5-10      | potassium hydroxide                        |
| Not Available | >60       | Ingredients determined not to be hazardous |

### **SECTION 4 First aid measures**

| Description of first aid measure | S .  |
|----------------------------------|--|
| 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.  Continue 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 or hair contact occurs:  ► Immediately flush body and clothes with large amounts of water, using safety shower if available.  ► Quickly remove all contaminated clothing, including footwear.  ► Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre. ►  Transport to hospital, or doctor.   |

# Multi Mix 03 - Heavy Duty Cleaner Degreaser Page 3 of 12

Version No: **6.1.1.1** Print Date: **01/02/2025** 

▶ If fumes or combustion products are inhaled remove from contaminated area. ▶ Lav patient down. Keep warm and rested. ▶ Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. ▶ Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. ▶ Transport to hospital, or doctor, without delay. ▶ Inhalation of vapours or aerosols (mists, fumes) may cause lung oedema. Inhalation ▶ Corrosive substances may cause lung damage (e.g. lung oedema, fluid in the lungs). As this reaction may be delayed up to 24 hours after exposure, affected individuals need complete rest (preferably in semi-recumbent posture) and must be kept under medical observation even if no symptoms are (yet) manifested ▶ Before any such manifestation, the administration of a spray containing a dexamethasone derivative or beclomethasone derivative may be considered. This must definitely be left to a doctor or person authorised by him/her. (ICSC13719) ▶ For advice, contact a Poisons Information Centre or a doctor at once.

- ▶ Urgent hospital treatment is likely to be needed.
- If swallowed do NOT induce vomiting.
   If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent
- Ingestion aspiration.
  - ▶ Observe the patient carefully.
     ▶ 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.
     ▶ Transport to hospital or doctor without delay.

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

For acute or short-term repeated exposures to highly alkaline materials

- Respiratory stress is uncommon but present occasionally because of soft tissue edema.
- ▶ Unless endotracheal intubation can be accomplished under direct vision, cricothyroidotomy or tracheotomy may be necessary.
- ▶ Oxygen is given as indicated.

Chemwatch: 5199-63

- The presence of shock suggests perforation and mandates an intravenous line and fluid administration.
- Damage due to alkaline corrosives occurs by liquefaction necrosis whereby the saponification of fats and solubilisation of proteins allow deep penetration into the tissue.

Alkalis continue to cause damage after exposure. INGESTION:

▶ Milk and water are the preferred diluents

No more than 2 glasses of water should be given to an adult.

- ▶ Neutralising agents should never be given since exothermic heat reaction may compound injury.
- \* Catharsis and emesis are absolutely contra-indicated.
- \* Activated charcoal does not absorb alkali.
- \* Gastric lavage should not be used.

Supportive care involves the following:

- Withhold oral feedings initially.
- If endoscopy confirms transmucosal injury start steroids only within the first 48 hours.
- ▶ Carefully evaluate the amount of tissue necrosis before assessing the need for surgical intervention.
- Patients should be instructed to seek medical attention whenever they develop difficulty in swallowing (dysphagia).

SKIN AND EYE:

Injury should be irrigated for 20-30 minutes.

Eye injuries require saline. [Ellenhorn & Barceloux: Medical Toxicology]

#### **SECTION 5 Firefighting measures**

#### Extinguishing media

- Water spray or fog.
- Foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.

#### Special hazards arising from the substrate or mixture

| Fire Incompatibility    | ▶ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result   |
|-------------------------|--|
| Advice for firefighters |  |
| Fire Fighting           | <ul> <li>▶ Alert Fire Brigade and tell them location and nature of hazard.</li> <li>▶ Wear full body protective clothing with breathing apparatus.</li> <li>▶ Prevent, by any means available, spillage from entering drains or water course.</li> <li>▶ Use fire fighting procedures suitable for surrounding 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 Hazard   | ▶ Non combustible. ▶ Not considered a significant fire risk, however containers may burn. Decomposition may produce toxic fumes of: carbon dioxide (CO2) nitrogen oxides (NOx) silicon dioxide (SiO2) metal oxides other pyrolysis products typical of burning organic material. May emit corrosive fumes.   |

Multi Mix 03 - Heavy Duty Cleaner Degreaser Page 4 of 12

Chemwatch: 5199-63

Version No: 6.1.1.1 Print Date: 01/02/2025

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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

Environmental hazard - contain spillage. Drains for storage or use areas should have retention basins for pH adjustments and dilution of spills before discharge or disposal of material.

#### ▶ Check regularly for spills and leaks.

#### Minor Spills

- ▶ Clean up all spills immediately Avoid breathing vapours and contact with skin and eyes.
- ▶ Control personal contact with the substance, by using protective equipment. ▶

Contain and absorb spill with sand, earth, inert material or vermiculite.

- ▶ Wipe up.
- ▶ Place in a suitable, labelled container for waste disposal.

## **Major Spills**

#### Environmental hazard - contain spillage.

- ▶ Clear area of personnel and move upwind.
- Alert Fire Brigade and tell them location and nature of hazard.
- ▶ Wear full body protective clothing with breathing apparatus.
- ▶ 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.
- ▶ Collect recoverable product into labelled containers for recycling.

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

#### SECTION 7 Handling and storage

#### Precautions for 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. Safe handling ▶ WARNING: To avoid violent reaction, ALWAYS add material to water and NEVER water to material. Avoid smoking, naked lights or ignition sources. Avoid contact with incompatible materials ▶ When handling, DO NOT eat, drink or smoke ▶ Store in original containers. ▶ Keep containers securely sealed. ▶ Store in a cool, dry, well-ventilated area. ▶ Store away from incompatible materials and foodstuff containers Other information ▶ Protect containers against physical damage and check regularly for leaks. ▶ Observe manufacturer's storage and handling recommendations contained within this SDS. ▶ DO NOT store near acids, or oxidising agents ▶ No smoking, naked lights, heat or ignition sources

# Conditions for safe storage, including any incompatibilities

- ▶ Lined metal can, lined metal pail/ can.
- ▶ Plastic pail.
- ▶ Polyliner drum.
- ▶ Packing as recommended by manufacturer.
- ▶ Check all containers are clearly labelled and free from leaks

#### For low viscosity materials

- ▶ Drums and jerricans must be of the non-removable head type.
- ▶ Where a can is to be used as an inner package, the can must have a screwed enclosure. For materials with a viscosity of at least 2680 cSt. (23 deg. C) and solids (between 15 C deg. and 40 deg C.):

# ▶ Removable head packaging; ▶

Cans with friction closures and I low

pressure tubes and cartridges

#### may be used.

Where combination packages are used, and the inner packages are of glass, porcelain or stoneware, there must be sufficient inert cushioning material in contact with inner and outer packages unless the outer packaging is a close fitting moulded plastic box and the substances are not incompatible with the plastic

#### Storage incompatibility

Suitable container

- ▶ Reacts vigorously with acids
- ▶ Avoid strong acids, acid chlorides, acid anhydrides and chloroformates.
- Avoid contact with copper, aluminium and their alloys.
- ▶ Avoid reaction with oxidising agents

Version No: **6.1.1.1** Print Date: **01/02/2025** 

### SECTION 8 Exposure controls / personal protection

#### **Control parameters**

#### Occupational Exposure Limits (OEL)

#### INGREDIENT DATA

| Source                       | Ingredient          | Material name       | TWA           | STEL          | Peak    | Notes         |
|------------------------------|---------------------|---------------------|---------------|---------------|---------|---------------|
| Australia Exposure Standards | potassium hydroxide | Potassium hydroxide | Not Available | Not Available | 2 mg/m3 | Not Available |

#### Emergency Limits

| Ingredient          | Material name       | TEEL-1     | TEEL-2  | TEEL-3   |
|---------------------|---------------------|------------|---------|----------|
| potassium hydroxide | Potassium hydroxide | 0.18 mg/m3 | 2 mg/m3 | 54 mg/m3 |

| Ingredient          | Original IDLH | Revised IDLH  |
|---------------------|---------------|---------------|
| potassium hydroxide | Not Available | Not Available |

#### **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 unperforated side shields may be used where continuous eye protection is desirable, as in laboratories; spectacles are not sufficient where complete eye protection is needed such as when handling bulk-quantities, where there is a danger of splashing, or if the material may be under pressure.
- ▶ Chemical goggles.whenever there is a danger of the material coming in contact with the eyes; goggles must be properly fitted.
- ▶ Full face shield (20 cm, 8 in minimum) may be required for supplementary but never for primary protection of eyes; these afford face

# protection

#### protection.

- Alternatively a gas mask may replace splash goggles and face shields.
- ▶ 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.

#### Skin protection

# See Hand protection below

#### . i

- ▶ Elbow length PVC gloves
- ▶ When handling corrosive liquids, wear trousers or overalls outside of boots, to avoid spills entering boots.

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.

Hands/feet protection
The exact brea

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.

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 moisturiser is recommended. Wear safety footwear.

#### **Body protection**

See Other protection below

# Other protection

- Overalls.
- ▶ PVC Apron.
- ▶ PVC protective suit may be required if exposure severe.
- ▶ Eyewash unit.
- ▶ Ensure there is ready access to a safety shower.

#### 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:

#### Multi Mix 03 - Heavy Duty Cleaner Degreaser

| Material         | СРІ |
|------------------|-----|
| BUTYL            | А   |
| NATURAL+NEOPRENE | Α   |

Continued...

Version No: 6.1.1.1

Print Date: 01/02/2025

| NEOPRENE       | Α |
|----------------|---|
| NITRILE        | Α |
| NITRILE+PVC    | A |
| PVC            | A |
| NATURAL RUBBER | В |

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

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 suchas "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.

#### Respiratory protection

Type AK-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001,

ANSI Z88 or national equivalent)

Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important.

| Required<br>minimum<br>protection<br>factor | Maximum gas/vapour concentration present in air p.p.m. (by volume) | Half-face<br>Respirator | Full-Face<br>Respirator |
|---|--|-------------------------|-------------------------|
| up to 10                                    | 1000   | AK-AUS /<br>Class1 P2   | -                       |
| up to 50                                    | 1000   | -                       | AK-AUS /<br>Class 1 P2  |
| up to 50                                    | 5000   | Airline *               | -                       |
| up to 100                                   | 5000   | -                       | AK-2 P2                 |
| up to 100                                   | 10000  | -                       | AK-3 P2                 |
| 100+  |  |                         | Airline**               |

Issue Date: 30/12/2024

- ▶ 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.
- ▶ Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

#### **SECTION 9 Physical and chemical properties**

| Appearance                                   | Clear yellow thin liquid with no odour; mixes with water. |  |                |
|--|---|--|----------------|
| Physical state                               | Liquid  | Relative density (Water = 1)                   | 1.10           |
| Odour  | Not Available   | Partition coefficient n-<br>octanol<br>/ water | Not Available  |
| Odour threshold                              | Not Available   | Auto-ignition temperature (°C)                 | Not Applicable |
| pH (as supplied)                             | 13.0-13.5   | Decomposition temperature                      | Not Applicable |
| Melting point / freezing point (°C)          | Not Available   | 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<br>(%)                 | 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)                     | Not Available   | Gas group                                      | Not Available  |
| Solubility in water                          | Miscible  | pH as a solution (1%)                          | 11.5-12.5      |

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> Continuous Flow \*\* - Continuous-flow or positive pressure demandA(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)

#### Multi Mix 03 - Heavy Duty Cleaner Degreaser Page 7 of 12

Chemwatch: 5199-63 Issue Date: 30/12/2024 Version No: 6.1.1.1 Print Date: 01/02/2025

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**

#### Information on toxicological effects

| Inhaled | Inhaling corrosive bases may irritate the respiratory tract. Symptoms include cough, choking, pain and damage to the mucous membrane. Inhalation of potassium hydroxide dust due to spasm, throat pain, redness, hoarseness of voice, and difficulty in swallowing and breathing. There may be inflammation with accumulation of fluid in the lungs. Other sym burning sensation, coughing, wheezing, headache, nausea and vomiting.  Not normally a hazard due to non-volatile nature of product |
|---------|---|
|         | Ingestion of alkaline corrosives may produce burns around the mouth, ulcerations and swellings of the mucous membranes, profuse saliva production, with an inability to speak of the oesophagus and stomach may experience burning pain; vomiting and diarrhoea may follow.   |

# Ingestion

Skin

Contact

The material can produce severe chemical burns following direct contact with the skin.

Accidental ingestion of the material may be damaging to the health of the individual.

Potassium hydroxide burns are not immediately painful; onset of pain may be delayed minutes or hours; thus care should be taken to avoid contamination of gloves and boots. Skin contact with alkaline corrosives may produce severe pain and burns; brownish stains may develop. The corroded area may be soft, gelatinous and necrotic; tissue destruction 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 material a

any external damage is suitably protected.

Eye

If applied to the eyes, this material causes severe eye damage.

Direct eye contact with corrosive bases can cause pain and burns. There may be swelling, epithelium destruction, clouding of the cornea and inflammation of the iris. Mild cases severe cases can be prolonged with complications such as persistent swelling, scarring, permanent cloudiness, bulging of the eye, cataracts, eyelids glued to the eyeball and blir

Chronic

Repeated or prolonged exposure to corrosives may result in the erosion of teeth, inflammatory and ulcerative changes in the mouth and necrosis (rarely) of the jaw. Bronchial irri cough, and frequent attacks of bronchial pneumonia may ensue.

Long-term exposure to respiratory irritants may result in airways disease, involving difficulty breathing and related whole-body problems Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

Multi Mix 03 -Heavy Duty Cleaner Degreaser

| TOXICITY      | IRRITATION    |
|---------------|---------------|
| Not Available | Not Available |

# potassium hydroxide

| TOXICITY                                      | IRRITATION                          |
|---|-------------------------------------|
| Oral(Rat) LD50; =214-324 mg/kg <sup>[2]</sup> | Eye (rabbit):1mg/24h rinse-moderate |
|   | Skin (human): 50 mg/24h SEVERE      |
|   | Skin (rabbit): 50 mg/24h SEVERE     |

Legend:

1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.\* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTEC

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

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# Multi Mix 03 - Heavy Duty Cleaner Degreaser Page 8 of 12

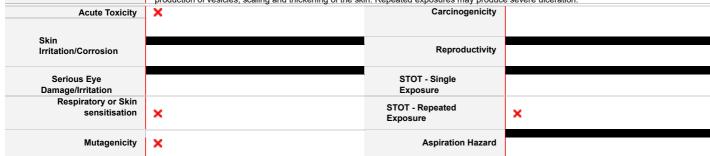
Chemwatch: 5199-63

Issue Date: 30/12/2024 Print Date: 01/02/2025

POTASSIUM HYDROXIDE 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.

The material may produce moderate eye irritation leading to inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis

The material may cause severe 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. Repeated exposures may produce severe ulceration.



Legend:

- Data either not available or does not fill the criteria for classification
- Data available to make classification

#### **SECTION 12 Ecological information**

| IO | CIC |  |
|----|-----|--|
|    |     |  |
|    |     |  |

Version No: 6.1.1.1

| Multi<br>Mix<br>03 -                  | Endpoint         | Test Duration (hr) | Species       | Value            | Source           |
|---------------------------------------|------------------|--------------------|---------------|------------------|------------------|
| Heavy<br>Duty<br>Cleaner<br>Degreaser | Not<br>Available | Not Available      | Not Available | Not<br>Available | Not<br>Available |

|                        | Endpoint | Test Duration (hr) | Species | Value  | Source |
|------------------------|----------|--------------------|---------|--------|--------|
| potassium<br>hydroxide | LC50     | 96                 | Fish    | 80mg/L | 2      |
|                        | NOEC     | 24                 | Fish    | 28mg/L | 2      |

Legend:

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

Normal use of the diluted product is not expected to pose any risk [Manufacturer]

For concentrate or bulk quantities: DO NOT discharge into sewer or waterways

#### Persistence and degradability

| Ingredient | Persistence: Water/Soil               | Persistence: Air                      |
|------------|---------------------------------------|---------------------------------------|
|            | No Data available for all ingredients | No Data available for all ingredients |

### Bioaccumulative potential

| Ingredient | Bioaccumulation                       |
|------------|---------------------------------------|
|            | No Data available for all ingredients |

#### Mobility in soil

| Ingredient | Mobility                              |
|------------|---------------------------------------|
|            | No Data available for all ingredients |

#### **SECTION 13 Disposal considerations**

#### Waste treatment methods

# Multi Mix 03 - Heavy Duty Cleaner Degreaser

Chemwatch: **5199-63** 

Version No: **6.1.1.1** Print Date: **01/02/2025** 

# Product / Packaging disposal

- ▶ 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.
- ▶ Treat and neutralise at an approved treatment plant.
- ▶ Treatment should involve: Neutralisation with suitable dilute acid followed by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or Incineration in a licensed 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                 |  |               |  |         |  |  |
|---------------------------------|--|---------------|--|---------|--|--|
| zazoto resquirou                |  |               |  |         |  |  |
|                                 |  |               |  |         |  |  |
|                                 |  |               |  |         |  |  |
| Marine Pollutant                | NO   |               |  |         |  |  |
| HAZCHEM                         | 2R   |               |  |         |  |  |
| Land transport (ADG)            |  |               |  |         |  |  |
| UN number                       | 1719   |               |  |         |  |  |
| UN proper shipping name         | CAUSTIC ALKALI LIQUID, N.O.S. (contains potassium hydroxide) |               |  |         |  |  |
| Transport hazard                | Class 8  |               |  |         |  |  |
| class(es)                       | Subrisk  | Not Appl      | icable   |         |  |  |
| Packing group                   |  |               |  |         |  |  |
| Environmental hazard            | Not Applicable   |               |  |         |  |  |
|                                 |  |               |  |         |  |  |
| Special precautions for         | Special<br>provisions  |               | 274  |         |  |  |
| user                            | Limited quantity 1 L   |               |  |         |  |  |
| Air transport (ICAO-IATA / DGR) |  |               |  |         |  |  |
| UN number                       | 1719   |               |  |         |  |  |
| UN proper shipping<br>name      | Caustic alka   | li liquid, n. | o.s. * (contains potassium hydroxide)            |         |  |  |
|                                 | ICAO/IATA Class 8  |               |  |         |  |  |
| Transport hazard class(es)      | ICAO / IATA<br>Subrisk                                       |               | Not Applicable                                   |         |  |  |
|                                 | ERG Code   | 9             | 8L   |         |  |  |
| Packing group                   | II   |               |  |         |  |  |
| Environmental hazard            | Not Applicab   | ole           |  |         |  |  |
|                                 |  |               |  |         |  |  |
|                                 | Special pr   | ovisions      |  | A3 A803 |  |  |
|                                 | Cargo Onl  | y Packing     | Instructions                                     | 855     |  |  |
|                                 | Cargo Onl  | y Maximu      | m Qty / Pack                                     | 30 L    |  |  |
| Special precautions for<br>user | Passenge   | r and Carç    | o Packing Instructions                           | 851     |  |  |
|                                 | Passenge   | r and Carg    | o Maximum Qty / Pack                             | 1L      |  |  |
|                                 | Pass   | senger and    | l Cargo Limited Quantity Packing<br>Instructions | Y840    |  |  |
|                                 | Passenge   | r and Caro    | go Limited Maximum Qty / Pack                    | 0.5 L   |  |  |
| Sea transport (IMDG-Code / GG\  | /See)  |               |  |         |  |  |
| UN number                       | 1719   |               |  |         |  |  |
| UN proper shipping              | CAUSTIC ALKALI LIQUID, N.O.S. (contains potassium hydroxide) |               |  |         |  |  |

Version No: **6.1.1.1** Print Date: **01/02/2025** 

|                                | 1                                       |                     |  |
|--------------------------------|---|---------------------|--|
| Transport hazard class(es)     | IMDG Class  IMDG Subrisk                | 8<br>Not Applicable |  |
| Packing group                  | II                                      | '                   |  |
| Environmental hazard           | Not Applicable                          |                     |  |
| special precautions for<br>ser | EMS Number  Special provisions  Limited | F-A, S-B<br>274     |  |

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

Not Applicable

#### Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

| Product name                                      | Group         |  |
|---|---------------|--|
| potassium hydroxide                               | Not Available |  |
| Transport in bulk in accordance with the ICG Code |               |  |
| Product name                                      | Ship Type     |  |
| potassium hydroxide                               | Not Available |  |

### **SECTION 15 Regulatory information**

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

#### potassium hydroxide is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule  ${\bf 5}$ 

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6

Australian Inventory of Industrial Chemicals (AIIC)

#### **National Inventory Status**

| National Inventory                                 | Status |
|--|--------|
| Australia - AIIC / Australia<br>Non-Industrial Use | Yes    |

 Chemwatch: 5199-63
 Page 11 of 12
 Issue Date: 30/12/2024

#### Multi Mix 03 - Heavy Duty Cleaner Degreaser

Version No: 6.1.1.1 Print Date: 01/02/2025

| National Inventory            | Status  |  |  |
|-------------------------------|---|--|--|
| Canada - DSL                  | Yes   |  |  |
| Canada - NDSL                 | No (potassium hydroxide)  |  |  |
| China - IECSC                 | Yes   |  |  |
| Europe - EINEC / ELINCS / NLP | Yes   |  |  |
| Japan - ENCS                  | Yes   |  |  |
| Korea - KECI                  | Yes   |  |  |
| New Zealand - NZIoC           | Yes   |  |  |
| Philippines - PICCS           | Yes   |  |  |
| USA - TSCA                    | Yes   |  |  |
| Taiwan - TCSI                 | Yes   |  |  |
| Mexico - INSQ                 | Yes   |  |  |
| Vietnam - NCI                 | Yes   |  |  |
| Russia - ARIPS                | Yes   |  |  |
| Legend:                       | Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets) |  |  |

#### **SECTION 16 Other information**

| Revision Date       | 30/12/2020 |  |  |  |
|---------------------|------------|--|--|--|
| Initial Date        | 08/02/2016 |  |  |  |
| SDS Version Summary |            |  |  |  |
| Version             | Issue Date | Sections Updated   |  |  |
| 5.1.1.1             | 01/11/2019 | One-off system update. NOTE: This may or may not change the GHS classification |  |  |
| 6.1.1.1             | 30/12/2020 | Classification change due to full database hazard calculation/update.          |  |  |

#### Other information

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.

Chemwatch: **5199-63** Page **12** of **12** Issue Date: **30/12/2024** 

Multi Mix 03 - Heavy Duty Cleaner Degreaser

Version No: 6.1.1.1 Print Date: 01/02/2025

end of SDS