Infosafe No™ VAR9X	Issue Date :November 2024	ISSUED by MILESTON

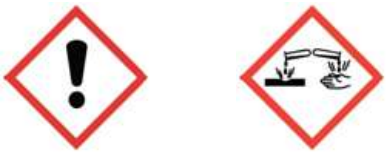
Product Name **KLEENLINE**

Section 1 - Identification

Product Identifier	KLEENLINE
Company Name	Milestone Chemicals Pty. Ltd. (ABN 85115166357)
Address	115 Northern Road West Heidelberg VIC 3081 AUSTRALIA
Telephone/Fax Number	Tel: (03) 9450 4555 Fax: (03) 9457 5518
Emergency Phone Number	(03) 9450 4555 Mon-Fri 8am - 6pm
Recommended use of the chemical and restrictions on use	Liquid beerline cleaner for use strictly in accordance with prescribed instructions issued by consumer's brewery.

Section 2 - Hazard(s) Identification

GHS Classification of the Substance/Mixture	Acute toxicity: Category 4 - Oral Eye damage/irritation: Category 1 Skin corrosion/irritation: Category 1B
Signal Word	DANGER
Hazard Statement (s)	H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage.
Pictogram (s)	Exclamation mark,Corrosion



Precautionary Statement – Prevention	P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash contaminated skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280(f) Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement – Response	P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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/doctor. P363 Wash contaminated clothing before reuse.
Precautionary Statement – Storage	P405 Store locked up.
Precautionary Statement – Disposal	P501 Dispose of contents/container: Recycle packaging by replacing cap and returning clean containers to recycler or designated collection point.
Precautionary Statement – General	P102 Keep out of reach of children. P103 Read carefully and follow all instructions.

Section 3 - Composition and Information on Ingredients

Ingredients

Name	CAS	Proportion
Potassium hydroxide	1310-58-3	10-30 %
Sodium Silicate Solution	1344-09-8	10-30 %
Sodium hydroxide	1310-73-2	1-10 %
Ingredients determined not to be hazardous, including water.		to 100%

Section 4 - First Aid Measures

Inhalation	Remove from exposure. Do not use mouth-to-mouth method if victim inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Administer oxygen if breathing is difficult. Obtain immediate medical attention.
Ingestion	Immediately rinse mouth with water. Do NOT induce vomiting. Give a glass of water to be taken slowly. Seek immediate medical attention.
Skin	Remove all contaminated clothing and immediately wash affected area with plenty of water. If swelling, redness, blistering or irritation occurs, seek medical advice.
Eye	Hold eyes open and flood with running water for at least 15 minutes, bathe eyes with soothing eyedrops or sterile saline, urgently seek medical attention. Transport to hospital or medical centre.
First Aid Facilities	Eye wash station, safety shower and normal wash room facilities.
Advice to Doctor	Product is a mixture containing a moderate proportion of potassium hydroxide. Corrosive by all routes. Risk of serious eye damage. If swallowed, may cause holes in stomach and intestines; gastric lavage may be contraindicated. Treat symptomatically. Contact Poisons Information Centre.

Section 5 - Firefighting Measures

Suitable Extinguishing Media	Use extinguishing media appropriate to surrounding fire.
Hazards from Combustion Products	Corrosive or toxic fumes.
Specific Methods	In case of small fire/explosion use water. In case of major emergency use PPE: breathing apparatus and protective gloves.
Specific Hazards Arising from the Chemical	Not flammable. Contact with aluminium, tin, zinc or galvanised iron may generate hydrogen, a flammable gas. Will react vigorously or violently with acids, generating much heat, and giving off carbon dioxide, a simple asphyxiant. Contact with ammonium compounds will generate ammonia, a poisonous gas.
Hazchem Code	2X
Other Information	If tanks, drums or containers of this material are heated, they may rupture and project corrosive materials over a wide area.

Section 6 - Accidental Release Measures

Emergency Procedures	Keep unnecessary people away; Isolate hazard area and deny entry. Stay upwind; Keep out of low areas. Do not walk or touch spilt material unless wearing personal protection as outlined under MSDS. Shut off ignition sources, no flares, smoking or flames in hazard area. Stop leak if you can do it without risk. Water spray may reduce vapour.
Spills & Disposal	For large spills: Contain spillages with sand or earth. Transfer both liquid and solids to suitable container(s). Treat residues as for small spills. For small spills: If local regulations permit, mop up with plenty of water and run to waste, diluting greatly with running water. Otherwise, absorb on inert absorbent and transfer to suitable container. Wash site of spillage thoroughly with water and detergent. Ventilate area to dispel any residual vapours.

Section 7 - Handling and Storage

Conditions for safe storage, including any incompatibilities	Store in cool place in original container. Store away from oxidisers, acids and foodstuffs. Keep containers closed when not in use. Store out of reach of children. Large quantities should be stored in a bunded area. Do not mix with other chemicals. Clean up all spills and splashes promptly; avoid secondary accidents.

Section 8 - Exposure Controls and Personal Protection

Occupational Exposure Limit (OEL) Values

Name	STEL		TWA		
	mg/m3	ppm	mg/m3	ppm	Footnote
Potassium hydroxide			2		Peak limitation
Sodium hydroxide			2		Peak limitation

Engineering Controls

In very confined spaces have sufficient ventilation. Do not atomise the product. Do not enter confined spaces where vapours may have acculumated. Keep containers closed when not in use. Do not decant in unlabelled bottles. Avoid using aluminium, tin, zinc, galvanised iron, wood or wood products as materials of construction.

Personal Protective Equipment

This product is extremely corrosive. Avoid contact with skin and eyes. Avoid breathing aerosols. Recommended personal protection:-

Neoprene or nitrile apron
Neoprene or nitrile.
Chemical goggles or faceshield to protect eyes.
Respirators in accordance with AS/NZS 1715/1716. The use of a P1 respirator with replaceable filters is recommended. Filter capacity and respirator type depends on exposure levels and type of contaminant. If entering spaces where the airborne concentration of a contaminant is unknown then the use of a Self-contained breathing apparatus (SCBA) with positive pressure air supply complying with AS/NZS 1715 / 1716, or any other acceptable International Standard is recommended.
Always maintain a high level of personal hygiene when using cleaning chemicals. That is wash hands before eating, drinking, smoking or using the toilet.

Section 9 - Physical and Chemical Properties

Form Liquid

Appearance Clear, water white liquid.

Odour Caustic like odour

Boiling Point approx. 100C

Solubility in Water Miscible with water in all proportions.

Specific Gravity 1.4

pH 12.6-13.0 (1% solution)

Flash Point None

Flammability Not flammable.

Other Information Very alkaline mixture. Will react vigorously or violently with acids or acidic compounds. Corrodes active metals, such as aluminium, tin or zinc, generating hydrogen, a flammable gas. Contact with ammonium compounds may generate ammonia, a toxic gas. Will absorb carbon dioxide from the air, forming carbonates. May react with organic halogen compounds, especially trichloroethylene. May form shock-sensitive salts with nitro compounds. Will attack wood and wood products. May attack glass on prolonged contact. Slippery when spilled.

Section 10 - Stability and Reactivity

Chemical Stability Stable under normal use conditons.

Possibility of Hazardous Reactions Hydrogen gas is generated when undiluted material contacts aluminium, zinc or tin. May react violently with acids. May generate ammonia from ammonium compounds. May react violently with organic halides. May form shock-sensitive salts with nitro compounds.

Conditions to Avoid Incompatible materials.

Incompatible Materials	Acids and acidic compounds, active metals, ammonium compounds, glass, nitro compounds, organic halides, wood and paper products.
Hazardous Decomposition Products	Emits choking and corrosive fumes when heated to decomposition.

Section 11 - Toxicological Information

Toxicology Information	No adverse health effects are expected, if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms and effects that may arise if the product is mishandled and overexposure occurs are:
Acute Toxicity - Oral	LD50 Potassium Hydroxide: 273mg/kg oral, rabbit Sodium Hydroxide: 140-340 mg/kg oral, rat
Ingestion	Corrosive. May cause serious burns to the mouth, throat and gastrointestinal system. May cause a burning pain in the throat and epigastrium, nausea, vomiting, abdominal pains and diarrhoea (occasionally bloody), fall in blood pressure, death. May cause burns and perforation of the stomach and intestines, and the sites of subsequent scaring have been associated with the development of stomach cancer.
Inhalation	Will cause severe irritation to the nose, throat and respiratory system with effects including: Dizziness, headache, coughing, loss of co-ordination, chest pains, respiratory paralysis and or failure.
Skin	Corrosive to skin - may cause skin burns. Skin contact often does not cause pain, thus care should be taken to avoid contamination of gloves and footwear. Repeated or prolonged contact may lead to irritant contact dermatitis. Mists or aerosols may cause small burns.
Eye	Corrosive. Risk of serious eye damage, and permanent impairment of sight. May cause redness, pain and blurred vision. Liquid splashes into the eye may rapidly cause severe tissue damage and deep burns.
Chronic Effects	Long term, low level exposure can lead to irritation of skin, lungs, nose, throat and mouth. Prolonged or repeated skin contact may lead to necrosis (death) of the skin.

Section 12 - Ecological Information

Ecotoxicity	This product is corrosive and poisonous in large concentrations.
Persistence and Degradability	Readily biodegradable.
Mobility	Readily transported by water.
Environmental Fate	This substance may cause long term adverse effects in the aquatic environment.
Environmental Protection	Avoid contaminating waterways, drains, sewers, or ground.

Section 13 - Disposal Considerations

Waste Disposal	Refer to appropriate authority in your State. Dispose of material through a licensed waste contractor. Normally suitable for disposal by approved waste disposal agent.
Product Disposal	Avoid disposal to natural waters or the environment.

Section 14 - Transport Information

Transport Information	Classified as a Class 8 Dangerous Good. Dangerous Goods of Class 8 Corrosives are incompatible in a placard load with any of the following: - Class 1, Class 4.3, Class 5, Class 6, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids and Class 7. Store away from acids.
ADG UN Number	3266
ADG Proper Shipping Name	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
ADG Transport Hazard Class	8

ADG Packing Group	II
Hazchem Code	2X
IERG Number	37

Section 15 - Regulatory Information

Poisons Schedule	S6
Australia (AICS/AIIC)	All components listed.

Section 16 - Any Other Relevant Information

Date of Preparation	3/11/2024
Literature References	Preparation of Safety Data Sheets for hazardous Chemicals Code of Practice Standard for the Uniform Scheduling of Medicines and Poisons Australian Code for the Transport of Dangerous Goods by Road & Rail Globally Harmonised System of classification and labelling of chemicals GHS7
Signature of Preparer/Data Service	Technical manager Tel: (03) 9450 4555
Technical Contact Numbers	Emergency Advice All Hours: Chief Chemist Tel: (03) 9450 4555 Mon-Fri 8am - 6pm Poisons Information Centre: 13 11 26 - 24hrs
Other Information	This SDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the Workplace. Please refer to the technical datasheet (Instructions for use), and the label on the drum. The company cannot anticipate or control the individual working conditions encountered and so each user should read this SDS carefully, and if in doubt ring the Contact Point Number given below. ...End Of MSDS...