Auto Klene Dishdet

Auto Klene Solutions Chemwatch: 5199-77 Version No: 2.1.1.1 Safety Data Sheet according to HSNO Regulations Chemwatch Hazard Alert Code: 1 Issue Date: 17/02/2016 Print Date: 27/06/2016 Initial Date: Not Available S.GHS.NZL.EN

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

Product Identifier			
Product name	Auto Klene Dishdet		
Synonyms	dishwashing liquid		
Other means of identification	Not Available		
Relevant identified uses of th	he substance or mixture and uses advised against		
Relevant identified uses	Use according to manufacturer's directions. Multi-purpose detergent suitable for general cleaning including: manual dish and glass washing operation.		
Details of the supplier of the	safety data sheet		
Registered company name	Auto Klene Solutions		
Address	1/83 Merrindale Drive VIC Croydon 3136 Australia		
Telephone	+61 3 8761 1900		
Fax	+61 3 8761 1955		
Website	https://www.autoklene.com/msds/		
Email	Not Available		
Emergency telephone number	er		
Association / 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			

Classification of the substance or mixture

Not considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation. Not regulated for transport of Dangerous Goods.

CHEMWATCH HAZARD RATINGS

	Min Max	
Flammability	0	
Toxicity	1	0 = Minimum
Body Contact	1	1 = Low 2 = Moderate
Reactivity	0	3 = High
Chronic	0	4 = Extreme

Classification	Not Applicable
Determined by Chemwatch using GHS/HSNO criteria	Not Available
Label elements	
GHS label elements	Not Applicable
SIGNAL WORD	NOT APPLICABLE
	L

Hazard statement(s)

Not Applicable

Precautionary statement(s) Prevention

Not Applicable

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Precautionary statement(s) Response Not Applicable

Precautionary statement(s) Storage Not Applicable

Precautionary statement(s) Disposal

Not Applicable

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name	
Not Available	0-10	surfactant package, proprietary blend	
Not Available	0-10	Ingredients determined not to be hazardous	
7732-18-5	>60	water	
SECTION 4 FIRST AID MEASURES			

NZ Poisons Centre 0800 POISON (0800 764 766) | NZ Emergency Services: 111

Description of first aid measures

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	► If fumes, aerosols or combustion products are inhaled remove from contaminated area. ► Other measures are usually unnecessary.
Ingestion	 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 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.

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

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

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

Special hazards arising from the substrate or mixture

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

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Fire/Explosion Hazard	 The material is not readily combustible under normal conditions. However, it will break down under fire conditions and the organic component may burn. Not considered to be a significant fire risk. Heat may cause expansion or decomposition with violent rupture of containers. Decomposes on heating and may produce toxic fumes of carbon monoxide (CO). May emit acrid smoke. 	ical of burning organic material	
SECTION 6 ACCIDENTAL	RELEASE MEASURES		
Personal precautions, protect	tive equipment and emergency procedures		

	▶ Clean up all spills immediately.	
	Avoid breathing vapours and contact with skin and eyes.	
Minor Spills	Control personal contact with the substance, by using protective equipment.	
Minor Spins	Contain and absorb spill with sand, earth, inert material or vermiculite.	
	▶ Wipe up.	
	 Place in a suitable, labelled container for waste disposal. 	
	Moderate hazard.	
	▶ Clear area of personnel and move upwind.	
	► Alert Fire Brigade and tell them location and nature of hazard.	
Major Spills	▶ Wear breathing apparatus plus protective gloves.	
	▶ Prevent, by any means available, spillage from entering drains or water course.	
	▶ Stop leak if safe to do so.	
	▶ Contain spill with sand, earth or vermiculite.	
Develop Detection For the extension of the Operation of t		

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

SECTION 7 HANDLING AND STORAGE

	▶ Avoid all personal contact, including inhalation.
	▶ Wear protective clothing when risk of exposure occurs.
	▶Use in a well-ventilated area.
Safe handling	▶ Prevent concentration in hollows and sumps.
Sale handling	► DO NOT enter confined spaces until atmosphere has been checked.
	► DO NOT allow material to contact humans, exposed food or food utensils.
	► Avoid contact with incompatible materials.
	DO NOT allow clothing wet with material to stay in contact with skin
	▶ Store in original containers.
	▶ Keep containers securely sealed.
Other information	▶ Store in a cool, dry, well-ventilated area.
Other Information	Store away from incompatible materials and foodstuff containers.
	 Protect containers against physical damage and check regularly for leaks.
	Observe manufacturer's storage and handling recommendations contained within this SDS.
ditions for safe storage,	including any incompatibilities
	► Polyethylene or polypropylene container.
Suitable container	▶ Packing as recommended by manufacturer.
	Check all containers are clearly labelled and free from leaks.
Storage incompatibility	None known

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Not Available

EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
Auto Klene Multi Mix 6	Not Available	Not Available	Not Available	Not Available
Ingredient	Original IDLH		Revised IDLH	
surfactant package, proprietary blend	Not Available		Not Available	
Ingredients determined not to be hazardous	Not Available		Not Available	
water	Not Available		Not Available	

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posure controls				
Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure.			
Personal protection				
Eye and face protection	 Safety glasses with side shields. Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. 			
Skin protection	See Hand protection below			
Hands/feet protection	 Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: frequency and duration of contact, chemical resistance of glove material, glove thickness and dexterity Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent). When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to E 374, AS/NZS 2161.10.1 or national equivalent) is recommended. 			
Body protection	See Other protection below			
Other protection	 ▶ Overalls. ▶ P.V.C. apron. ▶ Barrier cream. ▶ Skin cleansing cream. ▶ Eye wash unit. 			
Thermal hazards	Not Available			
	I Desciratory protection			

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:

Auto Klene Multi Mix 6

Material	СРІ
BUTYL	A
NEOPRENE	A
VITON	A
NATURAL RUBBER	С
PVA	С

* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

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

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

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

Respiratory protection

Type A 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 Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	A-AUS	-	A-PAPR-AUS / Class 1
up to 50 x ES	-	A-AUS / Class 1	-
up to 100 x ES	-	A-2	A-PAPR-2 ^

^ - Full-face

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

Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

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

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	Evaporation rate	Not Available	Explosive properties	Not Available
	Flammability	Not Applicable	Oxidising properties	Not Available
	Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
	Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available
	Vapour pressure (kPa)	@ 20 degC	Gas group	Not Available
	Solubility in water (g/L)	Miscible	pH as a solution (1%)	~7.8
	Vapour density (Air = 1)	Not Available	VOC g/L	Not Available
			is not properly fitted. Because of	of these limitations, only restricted use of cartridge

is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Pale green liquid of moderate viscosity. Soluble in water to yield foaming solution.		
Physical state	Liquid	Relative density (Water = 1)	1.020
Odour	Not Available	Partition coefficient n- octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	9.4	Decomposition temperature	Not Available
Melting point / freezing point (°C)	~0	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	>100	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Applicable	Taste	Not Available

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 materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 TOXICOLOGICAL INFORMATION

Inhaled	The material is not thought to produce either adverse health effects or irritation of the respiratory tract following inhalation (as classified by EC Directives using animal models). Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. Not normally a hazard due to non-volatile nature of product
Ingestion	Accidental ingestion of the material may be damaging to the health of the individual.
Skin Contact	There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons. Open cuts, abraded or irritated skin should not be exposed to this material
Eye	There is some evidence to suggest that this material can cause eye irritation and damage in some persons.

Continued...

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Chronic	Long-term exposure to the product is not thought to produce chronic effect nevertheless exposure by all routes should be minimised as a matter of c	cts adverse to the health (as classified by EC Directives using animal models); course.
	ΤΟΧΙCΙΤΥ	IRRITATION
Auto Klene Multi Mix 6		
	Not Available	Not Available
	TOXICITY	IRRITATION
water		
	Oral (rat) LD50: >90000 mg/kgNot Available	
Legend		cicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified
	data extracted from RTECS - Register of Toxic Effect of chemical Substa	nces

Auto Klene Multi Mix 6 & WATER	No significant acute toxicological data identified in literature	e search.	
Acute Toxicity		Carcinogenicity	
Skin Irritation/Corrosion		Reproductivity	
Serious Eye Damage/Irritation	0	STOT - Single Exposure	0
Respiratory or Skin sensitisation	0	STOT - Repeated Exposure	0
Mutagenicity		Aspiration Hazard	
		Legend: 🗙 🗸	 Data available but does not fill the criteria for classification Data required to make classification available Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

Toxicity					
Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
water	EC50	384	Crustacea	199.179mg/L	3
water	EC50	96	Algae or other aquatic plants	8768.874mg/L	3
water	LC50	96	Fish	897.520mg/L	3
Legend:	Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data				

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
water	LOW	LOW

Bioaccumulative potential

Ingredient	Bioaccumulation
water	LOW (LogKOW = -1.38)

Mobility in soil

Ingredient	Mobility
water	LOW (KOC = 14.3)
SECTION 13 DISPOSAL (CONSIDERATIONS

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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 the
	area. In some areas, certain wastes must be tracked.
	A Hierarchy of Controls seems to be common - the user should investigate:
	▶ Reduction ▶
	Reuse
	▶ Recycling
	▶ Disposal (if all else fails)
	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 contaminate
	it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making
Product / Packaging	decisions of this type.
disposal	Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.
ulopooul	► 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. I Where in doubt contact the responsible authority.
	▶ Recycle wherever possible.
	Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
	Dispose of by: burial in a land-fill specifically licenced to accept chemical and / or pharmaceutical wastes or incineration in a licenced
	apparatus (after admixture with suitable combustible material).
	Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

Ensure that the disposal of material is carried out in accordance with Hazardous Substances (Disposal) Regulations 2001.

SECTION 14 TRANSPORT INFORMATION

Labels Required		
Marine Pollutant	NO	
HAZCHEM	Not Applicable	
Land transport (UN): 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

WATER(7732-18-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS		
Not Applicable	Not Applicable	
HSR Number	Group Standard	
This substance is to be mana	ged using the conditions specified in an applicable Group Standard	

New Zealand Inventory of Chemicals (NZIoC)

Location Test Certificate

Subject to Regulation 55 of the Hazardous Substances (Classes 1 to 5 Controls) Regulations, a location test certificate is required when quantity greater than or equal to those indicated below

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are present. Hazard Class Quantity beyond which controls apply for closed containers Quantity beyond which controls apply when use occurring in open

Not Applicable

Not Applicable

Class of substance Quantities

Class of Substance	dualities
Not Applicable	Not Applicable
Pater Group Standards for further information	

Refer Group Standards for further information

Not Applicable

Tracking Requirements

Not Applicable	
National Inventory	Status
Australia - AICS	Y
Canada - DSL	Y
Canada - NDSL	N (water)
China - IECSC	Y
Europe - EINEC / ELINCS / NLP	Υ
Japan - ENCS	N (water)
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

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

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

www.chemwatch.net

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

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