



better products  
cleaner environment

## **AUTOVA**

### **Autoscrubber Detergent**

#### **Product Description**

**Autova** is a powerful detergent for cleaning floors where heavy soil and stains are usually found. It is formulated with low foam surfactants, making it especially suitable for use with auto scrubbers, or wet/dry vacuum cleaners after other forms of mechanical scrubbing. Foam does not build up in the recovery tank, and so does not inhibit tank capacity or damage the vacuum motors.

It also has a pleasant fragrance that provides a refreshing scent after cleaning the floors.

#### **Areas of Use**

**Autova** is highly suited for mopping or mechanical scrubbing of floors in all industrial and commercial applications such as factories, warehouses, shopping malls, train stations and other public areas.

#### **Special Features**

- Low foaming, easy to rinse and ideal for vacuuming.
- Non-acidic, thus non-corrosive on metal parts of cleaning equipment.
- Surfactants used harmless to plastics and other parts found on cleaning equipment.
- Pleasant lingering fragrance.
- Concentrated for greater economy.

#### ***Directions for use***

Dilute according to ratios below for mopping, wiping, or scrubbing.

Heavy soil	~1: 60
Medium soil and periodic cleaning	~1:80
Light soil and regular maintenance cleaning	~1:120


#### **Precautions**

Avoid ingestion and eye contact.

**KLENCO (SINGAPORE) PTE LTD**

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Company Registration No: 197100402R

# SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION				
<b>Product Identifier:</b> AUTOVA		<b>Supplier:</b> Klenco (Singapore) Pte Ltd. <b>Address:</b> 18 Gul Crescent, Singapore 629527 <b>Department:</b> Chemical <b>Person in Charge:</b> Chemist		
<b>Other means of identification:</b> Floor Scrubbing Detergent		<b>Phone:</b> (65) 6862 3388		
<b>Date of SDS:</b> 01 January 2024		<b>Fax:</b> (65) 6861 7575		
<b>Recommended use and restriction on use:</b> AUTOVA is highly suited for mopping or mechanical scrubbing of floors in all industrial and commercial applications such as factories, warehouses, shopping malls, train stations and other public areas.		<b>Email:</b> info@klenco-asia.com <b>Emergency contact:</b> (65) 6862 3388 Ext 249		
SECTION 2 - HAZARDS IDENTIFICATION				
<b>GHS classification:</b> Acute toxicity: Category 4 Eye irritation: Category 2				
<b>GHS label elements:</b> Pictogram:		Signal Words: Warning		
				
<b>Hazard statements:</b>		H302: Harmful if swallowed. H320: Causes eye irritation.		
<b>Precaution statements:</b>		P102: Keep out of reach of children. P262: Do not get on skin. P280: Wear protective gloves and clothing.		
SECTION 3 - COMPOSITION/ INFORMATION ON INGREDIENTS				
Chemical Identification	Component & Composition	Chemical Formula	CAS NO.	EC NO.
Ethylene Glycol Butyl Ether	< 4.0 %	CH3(CH2)3OCH2CH2OH	111-76-2	203-905-0
Sodium Metasilicate	< 2.0 %	Na2SiO3	6834-92-0	229-912-9
Sodium Hydroxide	< 0.5 %	NaOH	1310-73-2	215-185-5
Nonyl Phenol Ethoxylate	< 3.0 %	C <sub>33</sub> H <sub>60</sub> O <sub>10</sub>	26571-11-9	247-816-5
Sodium EDTA	< 1.0 %	C <sub>10</sub> H <sub>12</sub> N <sub>2</sub> Na <sub>4</sub> O <sub>8</sub>	64-02-8	200-573-9
D-Limonene	< 0.3 %	Mixture	5989-27-5	227-813-5
Water	> 90.0 %	H <sub>2</sub> O	7732-18-5	231-791-2
Blue Dye	< 0.01 %	CI	1330-38-7	215-537-8
Silicone Oil Emulsion	< 1.0 %	NA	63148-62-9	256-244-9
Fragrance	< 0.5 %	-	NA	NA
SECTION 4 – FIRST AID MEASURES				
<b>Inhalation:</b> Move to area of fresh air. If breathing has stopped, artificial respiration should be started. Oxygen may be administered if available. Call a physician. Never give anything by mouth to an unconscious person.				
<b>Skin contact:</b> Wash with large amounts of soap and water. If irritation persists, consult a physician.				
<b>Eye contact:</b> Flush with cool water for at least 15 minutes. Then consult a physician immediately.				
<b>Ingestion:</b> Do not induce vomiting. Dilute by drinking water. Call a physician immediately.				
<b>Notes to Physicians:</b> Treatment should be directed at preventing absorption, administering to symptoms (if they occur), and providing supportive therapy.				
SECTION 5 – FIRE-FIGHTING MEASURES				
<b>Suitable fire-extinguishing media:</b> Water, dry chemical, carbon dioxide and foam.				
<b>Specific hazards arising from the chemical:</b> Burning can produce carbon dioxide and/or carbon monoxide.				
<b>Special protective actions for fire fighters:</b> Fire fighters may be exposed to the products of combustion should wear a self-contained breathing apparatus with full protective equipment.				
SECTION 6 - ACCIDENTIAL RELEASE MEASURE				
<b>Personal precautions, protective equipment, and emergency measures:</b> Use proper protective equipment (chemical protection suit, gloves, goggles, mask, etc).				
<b>Environmental precautions:</b> Chemical substance should not be released into the environment (water, soil).				
<b>Methods and materials for containment and cleaning up:</b> Stop spill at source. Contain material, as necessary, with dike or barrier. Mop, shovel or absorb with inert material and place in sound containers. Rinse remaining residue with excess water. Cover spills with absorbent clay, sawdust or inert material and place in closed chemical waste containers. Dispose of according to applicable local, state and federal regulations.				
SECTION 7 - HANDLING AND STORAGE				
<b>Precaution for safe handling:</b> Wash thoroughly after handling, especially before eating and drinking. Wash contaminated goggles, face-shield, and gloves. Launder contaminated clothing before re-use.				
<b>Conditions for safe storage, including any incompatibilities:</b> Store in cool, dry, well-ventilated area at temperature. Do not re-use empty container for food, clothing or products for human or animal consumption or where skin contact can occur.				

<b>SECTION 8 - EXPOSURE CONTROLS/ PERSONAL PROTECTION</b>	
<b>Control parameters/ Occupational exposure limits:</b>	<b>ACGIH - TLV:</b> Provide suitable personal protective equipment and/or ventilation to maintain exposure below TLV levels.
<b>Appropriate engineering control measures:</b>	Normally ventilation is not required.
<b>Personal Protection:</b>	Use the protective equipment such as protective Rubber/PVC gloves; safety glasses/ goggles can be worn if splashing is anticipated.
<b>SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES</b>	
<b>Appearance &amp; Odour:</b>	Blue liquid with pleasant odour.
<b>Solubility in water:</b>	Complete.
<b>Boiling Point:</b>	100 °C
<b>Specific Gravity:</b>	1.022 +/- 0.005 g/cm <sup>3</sup>
<b>PH:</b>	13.0 +/- 0.5
<b>Flash Point (T.C.C.):</b>	None to boiling
<b>Flammable Limits - Upper:</b>	Not applicable
<b>Lower:</b>	Not applicable
<b>Vapour Pressure:</b>	Not determined
<b>Vapour Density:</b>	Not determined
<b>SECTION 10 - STABILITY AND REACTIVITY</b>	
<b>Reactivity/ In compatible materials:</b>	Acids and oxidizing materials.
<b>Chemical stability:</b>	Stable under normal temperature and pressure.
<b>Possibility of hazardous reaction:</b>	Will not occur.
<b>Condition to avoid:</b>	Not applicable
<b>SECTION 11 – TOXICOLOGICAL INFORMATION</b>	
<b>Acute toxicity: Oral:</b>	Ingestion of high amount of product may be fatal.
<b>Skin or eye irritation:</b>	This product contains Potassium Hydroxide solution that may cause irritation to eyes and burn of skin under accidental contact.
<b>SECTION 12 – ECOLOGICAL INFORMATION</b>	
<b>Toxicity:</b>	Concentrations with a pH value of 10.5 or greater especially in fresh water may be fatal to fish and other aquatic organism. Can cause damage to aquatic plants and vegetation.
<b>Persistence and degradability:</b>	Product degrades readily by reaction of carbon dioxide in the air as well as decomposition by microorganism.
<b>Bioaccumulative potential:</b>	It is soluble in water and does not bio-accumulate.
<b>SECTION 13 – DISPOSAL CONSIDERATIONS</b>	
<b>Disposal method:</b>	Dispose of in an approved waste facility according to local regulations. It is recommended that an alternative be selected according to the following order of preference, based upon environmental acceptability: (1) Re-cycle or rework, if feasible (2) Incinerate at an authorized facility (3) Treat at an acceptable waste treatment facility.
<b>SECTION 14 – TRANSPORT INFORMATION</b>	
This material is non-regulated and no special requirement is necessary. HS Code: 34024290	
<b>SECTION 15 – REGULATORY INFORMATION</b>	
<b>International regulation:</b>	
<b>Classification:</b>	As this product is a proprietary mixture, it has not been allocated any classification.
<b>Risk phrases:</b>	R22 Harmful if swallowed. R36 Irritating to eyes.
<b>Safety phrases:</b>	S02 Keep out of reach of children. S24 Avoid contact with skin. S36/ 37 Wear suitable protective clothing and gloves.
<b>SECTION 16 – OTHER INFORMATION</b>	
<b>Hazard Rating: HMIS (Hazardous Materials Information System)</b>	
<b>HEALTH:</b>	1
<b>FLAMMABILITY:</b>	0
<b>REACTIVITY:</b>	0
<b>0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Extreme</b>	

**NOTICE:** SDS is correct at date of publication. It is not necessarily fully adequate for every circumstance, nor to be confused with or followed in violation of applicable laws or insurance requirements. Health hazards and effects of over-exposure apply only to negligent handling or misuse of product in its concentrated form (as supplied); and not routine exposure to diluted product under normal use. No warranty, express or implied, of merchantability, fitness or accuracy of data is made; as such the vendor assumes no responsibility for injury or damages resulting from use of this product.