

MATERIAL DATA SAFTY SHEET

Non-Hazardous According to the Criteria of NOHSC

Section 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	INKOFF
Other Name:	None
Manufacturer's Product Code:	KT-CC-IKO
Recommended Use:	ANILOX ROLLER CLEANER
MSDS Expiry Date:	October 2018
Supplier Name:	KLEENTEK ADVANCED CLEANING TECHNOLOGIES
Supplier Address:	10/100 SUGAR ROAD MAROOCHYDORE, QLD, 4558
Telephone No.:	1300 79 73 79
Fax No.:	07 5443 6021
Emergency No.:	07 5443 6020
Website:	www.kleentek.net.au

Section 2 - HAZARDS IDENTIFICATION

This product is classified as HAZARDOUS (IRRITANT) according to criteria of the National Occupational Health and Safety Commission Australia. This product is NOT classified as Dangerous Goods according to the Australian Dangerous Goods (ADG) Code. This product is classified as a Scheduled 5 Poison according to the SUSDP.

Approved Criteria	Xi - IRRITANT		
Classification	R36/38 – Irritating to skin and eyes		
	R43 – May cause sensitisation by skin contact		
	S(1/2) – Keep locked up and out of reach of children		
	S24/25 – Avoid contact with skin and eyes		
	S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection		
	S45 – In case of accident or if you feel unwell, seek medical advice immediately (show the label whenever possible)		

UN Number	none allocated	ADG Classification	none allocated
Shipping Name	none allocated	ADC Subsidiary Risk	none allocated
Hazchem Code	none allocated	Packing Group	none allocated
SUSDP Classification	S5 CAUTION		
EMERGENCY OVERVIEW			
Colour	Orange	Odour	Citrus odour
Physical Description	Liquid	Viscosity	Non-viscous liquid
Major Health Hazards	Irritant – eyes, skin, mucous membranes		

Section 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients determined not to be hazardous are present in concentrations that do not exceed the relevant cut-off concentrations as found from NOHSC publication "List of Designated Hazardous Substances" or have been found NOT to meet the criteria of a hazardous substance as defined in the NOHSC publication "Approved Criteria for Classifying Hazardous Substances"

Ingredients	CAS Number	Proportion	Exposure Standards TWA	Exposure standards STEL
(R)-p-mentha-1,8-diene	5989-27-5	< 10% w/w	Not set	Not set
Disodium metasilicate	6834-92-0	< 10% w/w	Not set	Not set
Ingredients determined to be non hazardous	Various	10 – 30% w/w	Not set	Not set
Water	7732-18-5	60% w/w	Not set	Not set

The TWA exposure value is the Time Weighted Average airborne concentration of a particular when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL

Section 4 - FIRST AID MEASURES

IF POISONING OCCURS, IMMEDIATELY CONTACT A DOCTOR OR POISONS INFORMATION CENTRE (TELEPHONE AUS: 13 11 26, NZ: 03 474 7000), AND FOLLOW THE ADVICE GIVEN. SHOW THIS MATERIAL SAFETY DATA SHEET TO A DOCTOR.

- Inhalation:** Remove victim from exposure = avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Seek medical advice if effects persist.
- Skin Contact:** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If swelling, redness, blistering or irritation occurs seek medical advice.
- Eye contact:** If in eyes, hold eyelids apart and flush the eyes continuously with running water. Refer to stop by the Poison Information Centre or a Doctor, or for at least 15 minutes and seek medical assistance.
- Ingestion:** Remove victim from exposure = avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Seek medical advice if effects persist.
- Advice to Doctor:** Treat symptomatically.

Section 5 - FIRE FIGHTING MEASURES

- Extinguishing media:** Not combustible, however, if material is involved in a fire use water fog (or if unavailable fine water spray), foam, dry agent (Carbon dioxide or dry chemical powdered).
- Specific hazards:** Non combustible material

Hazchem code: Not applicable

Fire fighting further advice:

Not combustible, however following evaporation of aqueous component residual materials can burn if ignited. On burning, may omit toxic fumes. Firefighters are to wear self-contained breathing apparatus and suitable protective clothing if there is a risk of exposure to vapour or products of combustion.

Section 6 - ACCIDENTAL RELEASE MEASURES

Small spills:

Wear protective equipment to prevent skin and eye contamination. Wipe up with absorbent (clean rag or paper towels) Allow absorbent to dry before disposing with normal household garbage.

Slippery when spilled:

Spilled liquid may make floors and surfaces slippery. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain – prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labeled containers or drums for disposal.

DANGEROUS GOODS – Initial Emergency Response Guide No:
Not Applicable

Section 7 - HANDLING AND STORAGE

Handling:

Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers closed at all times. Avoid physical damage to containers. Always wash hands with water after handling.

Storage:

Store in a cool, dry, place with good ventilation. Avoid storing in aluminium and light alloy containers. Store away from incompatible materials (Section 10). Keep containers closed at all times – check regularly for leaks.

This material is Scheduled Poison S5 and must be stored, maintained and used in accordance with the relevant regulations.

Section 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits National Occupational Exposure Limits, as published by National Occupational Health & Safety Commission:
Time-weighted Average (TWA): None established for specific product.
See SECTION 3 for Exposure Limits of individual ingredients.
Short Term Exposure Limit (STEL): None established for specific product.
See SECTION 3 for Exposure Limits of individual ingredients.

Biological Limit Value None established for product.

Engineering Controls Ensure ventilation is adequate to maintain air concentrations below exposure standards. Avoid generating mists of the product. Use only in a well-ventilated area. Ensure airflow, where this product is used, is directed away from the operators.



Personal Protective Equipment

This product is a hazardous (IRRITANT) cleaning liquid. Once diluted with 1 equal volumes of water (1:2 dilution), the product is no longer classified as hazardous according to the criteria of Worksafe Australia. Use good occupational work practice. The use of protective clothing and equipment depends upon the degree and nature of exposure. Final choice of appropriate protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. The following protective equipment should be available;

Eye protection:

The use of safety glasses with side shield protection, goggles or face shield is recommended to handle in quantity, cleaning up spills, decanting, etc. Contact lenses pose a special hazard ; soft lenses may absorb irritants and all lenses concentrate them.

Skin protection:

Wear chemical resistant gloves. Overalls, apron, work boots and elbow length gloves are recommended for handling the concentrated product (as per AS/NZS 2161, or as recommended by supplier) to handle in quantity, cleaning up spills, decanting, etc.

Protective Material Types Material suitable for detergent contact – Butyl rubber, Neoprene, PVC, and Nitrile.

Respirator:

Not required for normal and intended cleaning operations with adequate ventilation. Where high contaminant spray mist or vapour levels exist, ie, approaching the exposure limit, the following additional equipment is required: For short elevated exposures, eg, spillages:- Appropriate organic vapour cartridge respirator as per the requirements of AS/NZS 1715 and AS/NZS 1716 (Respiratory protective devices). For prolonged exposure and confined spaces:- full face air supplied or self contained breathing apparatus (if vapour levels exceed the Exposure Limit by more than ten times, air supplied apparatus should be used).

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Non-viscous liquid
Appearance:	Clear. Citrus odour.
Boiling Point:	~100°C.
Vapour Pressure:	33mm Hg @ 20°C
Specific Gravity:	1.1 @ 20°C
Flash Point:	Non Flammable
Explosive Limits %:	Not Available

Solubility in Water:	Soluble
% volatiles by volume:	Ca 70% v/v
pH:	12.8 - 13.2 neat

Section 10 - STABILITY AND REACTIVITY

Chemical stability:	Stable at normal temperatures and pressure.
Conditions to avoid:	None identified.
Incompatible material:	The ingredient Sodium Silicate is corrosive to metals, aluminium, tin lead and iron. Reducing agents, oxidizing agents, acid.
Hazardous decomposition products:	Product can decompose on combustion to form Carbon Monoxide, Carbon Dioxide, and other possibly toxic gases and vapours.
Hazardous reactions:	May be incompatible with acids.

Section 11 - TOXICOLOGICAL INFORMATION

No adverse health effects are expected, if the product is handled in accordance with this Material Safety Data Sheet and the product label. Symptoms and effects that may arise if the product is mishandled and overexposure occurs are as follows.

POTENTIAL HEALTH EFFECTS:

Inhalation – Inhalation of mists or aerosols can produce mucous membrane and respiratory irritation.

Skin contact – Irritating to skin - may cause skin irritation. Corrosion will continue until removed. Severity depends on the concentration and duration of exposure. Prolonged and repeated skin contact with solutions may induce eczematoid dermatitis in certain individuals.

Eye contact – Irritating to eyes.

Ingestion – Swallowing can result in nausea, vomiting of blood and eroded tissue; chemical burns of the mouth, throat & abdomen; perforation of the gastrointestinal tract.

Carcinogen Status:

No significant ingredient is classified as carcinogenic by NOHSC, NTP or IARC.

INDIVIDUAL INGREDIENT INFORMATION:

100% (R) - p-mentha-1,8-diene

Irritant: skin, eye, inhalation and ingestion. Acute eye irritation = Eye irritation, rabbit. Severely irritating. The skin irritancy of limonene in guinea pigs and rabbits is considered moderate and low, respectively.

Inhalation: RD50 >1000 ppm. (R) - p-mentha-1,8-diene is not a skin sensitizer. Improper storage and handling can lead to oxidation. The oxidized forms have shown potential to be skin sensitizers.

Toxicity:

LD₅₀, Oral (rat): 4,400 mg/kg.

LD₅₀, Dermal (rabbit): >2,000 mg/kg.

LD₅₀, Dermal (mice): 5,600 to 6,600 mg/kg.

Local effects: Eye, skin and mucous membrane irritation

Target organs: Eye, skin and mucous membranes

100% Disodium metasilicate

Hazardous in case of skin contact (corrosive), of ingestion (corrosive), of inhalation (lung irritant). Causes burns Eye: Risk of serious damage to eyes. Respiratory: Irritating to respiratory system. Sensitization: No sensitizing (30% w/w in a formulation).

250 mg/24 hour(s) skin-human : severe

250 mg/24 hour(s) skin-rabbit : severe

250 mg/24 hour(s) skin-guinea pig : moderate

Toxicity:

1153 mg/kg oral-rat LD50; 770 mg/kg oral-mouse LD50; 250 mg/kg oral-dog LDLo;

250 mg/kg oral-pig LDLo; 200 mg/kg intraperitoneal-guinea pig LDLo.

Other toxicological information: The toxic effects of the product are caused by the alkalinity and not by substance specific corrosive nature of the product.

Local effects: Corrosive: inhalation, skin, eye, ingestion

Target organs: Skin, mucous membranes, eyes

Acute Toxicity Level: Moderately Toxic: ingestion

Mutagenic Data Gentoxicity: Not mutagenic (in vitro)

Reproductive Effects Data: 15 gm/kg oral-rat TDLo 14 week(s) male week(s) pre pregnancy/14 week(s) post pregnancy/3 week(s) continuous; 9766 ug/kg subcutaneous-rat TDLo 1 day(s) male; 9766 ug/kg intratesticular-rat TDLo 1 day(s) male.

Section 12 - ECOLOGICAL INFORMATION

Fish toxicity:

None available for this specific product. Individual ingredients: The following information relates to Sodium, Silicate, Solution, Molar > 3,2 concentration 35% (IUCLID). Ecotoxicity: Fish: 96h - LC50 (Brachydanio rerio, OECD no. 203) : 3185 mg/l (pH 10.1) Daphnia: 48 h - EC50 (Daphnia magna): 4857 mg/l. Daphnia: 48 h - EC50 (Daphnia magna): 4857 mg/l

Algae toxicity:

None available for this specific product

Invertebrates toxicity:

None available

Toxicity to Bacteria:

None available for this specific product. Individual ingredients: The following information relates to Sodium, Silicate, Solution, Molar > 3,2 concentration 35% (IUCLID). Bacteria: 48 h - EC 0 (Pseudomonas putida, OECD no. 209) > 1000mg/l (pH 7.9)

OECD Biological degradation:

Individual components stated to be biodegradable. The following information relates to Sodium, Silicate, Solution, Molar > 3,2 concentration 35% (IUCLID). Environmental behaviour: Degradation abiotic: In aqueous solution of pH=< 9 the silicate is mineralized and precipitated. The maximum concentration of soluble silicates at this pH is 120 mg/l. Degradation Biotic: not applicable. Other information: The pH rise is responsible for the environmental effect on the aquatic life. If not neutralized, this product can be toxic for aquatic organism because of its alkalinity. PH >9 has a corrosive effect on fish (possibly causing death). PH >8.5 will result in destruction of algae.

General:

Product miscible in all proportions with water. DO NOT DISCHARGE BULK QUANTITIES INTO DRAINS, WATERWAYS, SEWER OR ENVIRONMENT. Inform local authorities if this occurs.

Section 13 - DISPOSAL CONSIDERATIONS

To dispose of quantities of undiluted product, refer to State Land Waste Management Authority. Transfer product residues to a labelled, sealed container for disposal or recovery. Waste disposal must be by an accredited contractor. As with any chemical, do not put down the drain in quantity. The small quantities contained in wash solutions (when used as directed) can generally be handled by conventional sewage systems, septic, and grey water systems. For larger scale use, eg. Commercial laundry operations, a recycled water system is often recommended, or Trade Waste License obtained for disposal to sewer.

Section 14 - TRANSPORT INFORMATION**Road and rail transport:**

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transporting by Road and Rail.

Marine Transport:

Not Classified as Dangerous Goods by the criteria of the International Marine Dangerous Goods Code (IMDG Code) for transport by sea.

Air Transport:

Not Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA Code) Dangerous Goods Regulations for transport by air.

Section 15 - REGULATORY INFORMATION

Poison Schedule: S5 [Aust]

Hazard Category: Non hazardous

Section 16 - OTHER INFORMATION

Trademark information:

Revision information: New Issue to standard : 2nd Edition [NOHSC:2011(2003)].

Data sources:

This MSDS summarizes at the date of issue our best knowledge of the health and safety hazard information of this product, and in particular how to safely handle and use this product in the workplace. Since the supplier cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this supplier.

END OF MSDS