

SAFETY DATA SHEET

According to Safe Work Australia

Printing date 25.08.2014

Revision: 25.08.2014

1 . IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product Name: SUPA KLENZ**Other Name:** Inorganic salts and sodium hydroxide mixture**Recommended Use of the Chemical and Restriction on Use:** Heavy duty circulation cleaner for dairies**Details of Manufacturer or Importer:**

DASCO Pty Ltd
 24 - 26 Helen Street
 Heidelberg Heights VIC 3081

Phone Number: (03) 9459 7004**Emergency telephone number:** 13 11 26 (Poisons Information Centre)

2 . HAZARDS IDENTIFICATION

Hazardous Nature:

corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.



STOT SE 3 H335 May cause respiratory irritation.

Label Elements**Signal Word** Danger**Hazard Statements**

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

Precautionary Statements

- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P264 Wash hands thoroughly after handling.
 P271 Use only outdoors or in a well-ventilated area.
 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.
 P321 Specific treatment (see on this label).
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P363 Wash contaminated clothing before reuse.
 P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
 P310 Immediately call a POISON CENTER/doctor.
 P312 Call a POISON CENTER/doctor if you feel unwell.
 P405 Store locked up.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P501 Dispose of contents/container in accordance with local/regional/national regulations.

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3 . COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Characterization: Mixtures**Description:** Mixture of substances listed below with nonhazardous additions.**Hazardous Components:**

1310-73-2	Sodium hydroxide (Na(OH)) ⚠ Skin Corr. 1A, H314	30-60%
497-19-8	Sodium carbonate ⚠ Eye Irrit. 2, H319	10-30%
10213-79-3	Sodium metasilicate pentahydrate ⚠ Met. Corr. 1, H290; Skin Corr. 1B, H314; ⚠ STOT SE 3, H335	10-30%
7782-50-5	Chlorine ⚠ Acute Tox. 3, H331; ⚠ Aquatic Acute 1, H400; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	1.24%

4 . FIRST AID MEASURES

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

Skin Contact:

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

Eye Contact:

In case of eye contact, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.

Ingestion: If swallowed, do not induce vomiting. Seek immediate medical attention.

Information for Doctor**Symptoms Caused by Exposure:**

Inhalation: May cause respiratory irritation, cough, a burning sensation, laboured breathing, sneezing, sore throat and runny nose.

Skin contact: Causes severe, deep burns, redness and pain.

Eye contact: Causes severe burns, especially to moist tissues, redness, pain, blurred vision, and permanent sight impairment.

Ingestion: May cause burns to mouth, throat, stomach and intestines, nausea, vomiting, abdominal pain, diarrhoea (occasionally bloody), fall in blood pressure, heart failure, coma and death. May cause swelling of the larynx and subsequent suffocation.

5 . FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water fog or fine water spray.

Specific Hazards Arising from the Chemical:

Contact with active metals such as tin, aluminium, zinc or galvanised iron may generate flammable hydrogen gas.

Hazardous combustion products include oxides of phosphorus, nitrogen, carbon, chlorine and hydrogen chloride.

Special Protective Equipment and Precautions for Fire Fighters:

Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing.

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6 . ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear Safe Work Australia approved respiratory protection and full protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe dusts. Ensure adequate ventilation.

Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses.

Methods and Materials for Containment and Cleaning Up:

Stop leak if safe to do so and sweep granules into a pile and shovel into drums for subsequent disposal. Avoid generating dust. Provide adequate ventilation.

7 . HANDLING AND STORAGE

Precautions for Safe Handling:

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of dust. Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

Conditions for Safe Storage:

Store in original container in a cool, dry and well ventilated area. Keep container tightly closed when not in use. Protect from physical damage, moisture and direct sunlight. Do not mix with hot water. Keep away from acids and acid salts, ammonium compounds and ammonium salts, active metals (such as aluminium, tin and zinc), organic halides, nitro compounds, metal salts, flammable liquids, wood and wood products.

8 . EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Standards:

1310-73-2 Sodium hydroxide (Na(OH))

NES	TWA: 2 mg/m ³ Peak limitation: 2 mg/m ³
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7782-50-5 Chlorine

NES	TWA: 3 mg/m ³ , 1 ppm Peak limitation: 3 mg/m ³ , 1 ppm
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Engineering Controls:

Ensure adequate ventilation of the workplace. If handling industrial quantities, or if dust/vapour/aerosol risk exists, provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapour as low as possible, at least below the occupational exposure limits.

Personal Protective Equipment (PPE):

Respiratory Protection:

Use a Safe Work Australia approved particulate respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of dust, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:

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Rubber or plastic gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information.

When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

Impervious overalls, plastic apron, sleeves and boots should be worn when handling industrial quantities. See Australian/New Zealand Standard AS/NZS 4501 for more information.

Eye and Face Protection:

Eye and face protectors for protection against dust. See Australian/New Zealand Standard AS/NZS 1337 for more information.

9 . PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Form:	Granular powder
Colour:	Buff coloured
Odour:	Almost odourless
Odour Threshold:	No information available
pH-Value:	14 (Very alkaline)
Melting point/Melting range:	No information available
Initial Boiling Point/Boiling Range:	No information available
Flash Point:	Not applicable
Flammability:	Product is not flammable.
Auto-ignition Temperature:	No information available
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	Not applicable
Upper:	Not applicable
Vapour Pressure:	None
Density:	No information available
Relative Density:	No information available
Vapour Density:	No information available
Evaporation Rate:	Not applicable
Solubility in Water:	Soluble in water with generation of heat.
Partition Coefficient (n-octanol/water):	No information available
% Volatiles by Volume:	About 1.24 % (as available chlorine)
VOC:	Nil

10 . STABILITY AND REACTIVITY

Possibility of Hazardous Reactions:

Highly alkaline. Will react violently with acids generating carbon dioxide, a simple asphyxiant, and chlorine, a toxic gas. Contact with ammonium compounds may generate ammonia, a toxic gas. Will corrode active metals, generating hydrogen. Hygroscopic, will absorb moisture from the air. May form shock-sensitive products with nitro compounds. Will attack wood and wood products. May attack glass on prolonged contact. May boil violently if mixed with hot water.

Chemical Stability: Stable at ambient temperature and under normal conditions of use.

Conditions to Avoid: Exposure to moisture and direct sunlight.

Incompatible Materials:

Active metals (such as aluminium, tin and zinc), acids and acid salts, ammonium compounds, nitro compounds, organic halides, metal salts, wood and wood products and flammable liquids.

Hazardous Decomposition Products: Chlorine, oxides of phosphorus, nitrogen and carbon.

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11 . TOXICOLOGICAL INFORMATION

Toxicity:

LD₅₀/LC₅₀ Values Relevant for Classification:		
1310-73-2 Sodium hydroxide (Na(OH))		
Oral	LD ₅₀	2000 mg/kg (rat)
	LDLo	500 mg/kg (rabbit)
497-19-8 Sodium carbonate		
Oral	LC ₅₀ /2 hr	2300 mg/m ³ (mouse)
	LD ₅₀	4090 mg/kg (rat)
10213-79-3 Sodium metasilicate pentahydrate		
Oral	LD ₅₀	1153 mg/kg (rat)
		770 mg/kg (mouse)
	LDLo	250 mg/kg (dog)

Acute Health Effects**Inhalation:**

May cause respiratory irritation, cough, a burning sensation, laboured breathing, sneezing, sore throat and runny nose. May cause pulmonary oedema (fluid build-up in the lungs). Onset of symptoms may be delayed by several hours.

Skin: Causes severe, deep burns, redness and pain.

Eye:

Causes severe burns especially to moist tissues, redness, pain, blurred vision, and permanent sight impairment.

Ingestion:

May cause burns to mouth, throat, stomach and intestines, nausea, vomiting, abdominal pain, diarrhoea (occasionally bloody), fall in blood pressure, heart failure, coma and death. May cause swelling of the larynx and subsequent suffocation. Damage may not be noticed until days after contact, but may still prove fatal.

Skin Corrosion / Irritation: Causes severe skin burns.

Serious Eye Damage / Irritation: Causes serious eye damage.

Respiratory or Skin Sensitisation: No sensitising effects known.

Germ Cell Mutagenicity: Based on classification principles, the classification criteria are not met.

Carcinogenicity: This product does NOT contain any IARC listed chemicals.

Reproductive Toxicity: Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Single Exposure:

May cause respiratory irritation.

Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:

Based on classification principles, the classification criteria are not met.

Aspiration Hazard: Based on classification principles, the classification criteria are not met.

Chronic Health Effects:

Chronic exposure to low levels of chlorine may lead to chloracne and erosion of the teeth.

Existing Conditions Aggravated by Exposure: No information available

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12 . ECOLOGICAL INFORMATION

Ecotoxicity: Harmful to aquatic organisms.**Aquatic toxicity:** No information available**Persistence and Degradability:** No information available**Bioaccumulative Potential:** No information available**Mobility in Soil:** No information available

13 . DISPOSAL CONSIDERATIONS

Disposal Methods and Containers:

Avoid disposal to natural waters or the environment. Do not use metal containers. Dispose according to applicable local and state government regulations.

Special Precautions for Landfill or Incineration:

Not suitable for incineration or some landfill sites. Please consult your state Land Waste Management Authority for more information.

14 . TRANSPORT INFORMATION

UN Number	3262
Proper Shipping Name	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S.
Dangerous Goods Class	8
Packing Group:	II
EMS Number:	FA-SB
Hazchem Code:	2X
Special Provisions:	274
Limited Quantities:	1 kg
Packagings & IBCs - Packing Instruction:	P002, IBC08
Packagings & IBCs - Special Packing Provisions:	B2, B4
Portable Tanks & Bulk Containers - Instructions:	T3
Portable Tanks & Bulk Containers - Special Provisions:	TP33

15 . REGULATORY INFORMATION

Australian Inventory of Chemical Substances:

1310-73-2	Sodium hydroxide (Na(OH))
497-19-8	Sodium carbonate
7782-50-5	Chlorine
10213-79-3	Sodium metasilicate pentahydrate

Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:

Poisons Schedule: 6

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16 . OTHER INFORMATION

Creation Date: 25.08.2014**Last Revision of MSDS:** 01.09.2009**Prepared by:** MSDS.COM.AU Pty Ltdwww.msds.com.au**Abbreviations and acronyms:**

ADG: Australian Dangerous Goods

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds

LC₅₀: Lethal concentration, 50 percentLD₅₀: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Disclaimer

This MSDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - December 2011"

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