

Safety Data Sheet

according to WHS Regulations

Print date: 22.01.2024

Revision date: 22.01.2024

1 Identification

Product Name: SUPA KLENZ

Other Means of Identification: Mixture

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: National Poisons Information Centre: 13 11 26

2 Hazard(s) Identification

Hazardous Nature:

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).



Corrosion

Skin Corrosion/Irritation 1A H314 Causes severe skin burns and eye damage.

Eye Damage 1 H318 Causes serious eye damage.



Environment

Aquatic Acute 1 H400 Very toxic to aquatic life.



STOT SE 3 H335 May cause respiratory irritation.

Signal Word Danger

Hazard Statements

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

Precautionary Statements

P260 Do not breathe dusts or mists.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear eye protection / face protection.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

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P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position 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.
P321	Specific treatment (see on this label).
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

3 Composition and Information on Ingredients

Chemical Characterization: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Hazardous Components:

CAS: 1310-73-2	Sodium hydroxide ⚠ Skin Corrosion/Irritation 1A, H314; ⚠ STOT SE 3, H335	30-60%
CAS: 497-19-8	Sodium carbonate ⚠ Eye Damage 1, H318; ⚠ STOT SE 3, H335	10-30%
CAS: 10213-79-3	Sodium metasilicate pentahydrate ⚠ Corrosive To Metals 1, H290; Skin Corrosion/Irritation 1B, H314; ⚠ STOT SE 3, H335	10-30%
CAS: 7782-50-5	Chlorine ⚠ Acute Toxicity (Inhalation) 3, H331; ⚠ Aquatic Acute 1, H400 (M=100); ⚠ Skin Corrosion/Irritation 2, H315; Eye Irritation 2A, H319; STOT SE 3, H335	1.24%

4 First Aid Measures

Inhalation: If inhaled, remove to fresh air. 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 immediate medical attention.

Eye Contact:

In case of eye contact, rinse with water for several minutes, including under eyelids. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Seek immediate medical attention.

Ingestion:

If swallowed, do not induce vomiting. Immediately rinse mouth with water. Give 1-2 glasses of water to drink in small sips. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Symptoms Caused by Exposure:

Inhalation: May cause respiratory irritation, burning sensation in the chest, cough, laboured breathing, sore throat and runny nose.

Skin Contact: Causes severe skin burns, redness and ulceration.

Eye Contact: Causes serious eye damage. May cause redness and blurred vision.

Ingestion: May cause irritation or burns to the mouth, nose, throat, oesophagus and stomach. May cause abdominal pain, nausea, vomiting, diarrhoea, low blood pressure, coma, heart failure and death. May cause swelling of the larynx and subsequent suffocation. Aspiration into the lungs may cause chemical pneumonitis and pulmonary oedema.

5 Fire Fighting Measures

Suitable Extinguishing Media: Water fog or fine spray.

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Specific Hazards Arising from the Chemical:

Hazardous combustion products include oxides of carbon, oxides of nitrogen and chlorine gas.

Product is not flammable.

Containers close to fire should be removed only if safe to do so. Use water spray to cool fire exposed containers.

Prevent run-off from fire fighting entering drains or water courses.

HAZCHEM Code: 2X

Special Protective Equipment and Precautions for Fire Fighters:

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

6 Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear approved dust/particulate filter respirator and full protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe dust. Ensure adequate ventilation. Avoid generating dust.

Environmental Precautions:

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

Inform respective authorities in case of seepage into water course or sewage system.

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:

Reacts violently with acids.

May be corrosive to metals and wood.

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 a cool, dry and well ventilated area. Keep in original container, tightly closed when not in use. Protect from direct sunlight and excessive moisture. Keep away from acids, acidic salts, active metals, nitro compounds, organic halides, ammonium compounds and wood.

8 Exposure Controls and Personal Protection

Exposure Standards:**CAS: 1310-73-2 Sodium hydroxide**

WES	Peak limitation: 2 mg/m ³
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CAS: 7782-50-5 Chlorine

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

Ensure adequate ventilation of the working area, keeping airborne concentrations below occupational exposure standards.

Respiratory Protection:

Where an inhalation risk exists, wear approved particulate respirator (filter type P). At high dust levels, wear a powered air purifying respirator (PAPR) with P3 filter or an air-line respirator or a full-face P3 (particulate) respirator. See Australian/New Zealand Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:

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

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permeation breakthrough time should be considered.

Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). 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
Odour:	Almost odourless
Odour Threshold:	No information available
pH-Value:	14
Melting point/freezing point:	No information available
Initial Boiling Point/Boiling Range:	No information available
Flash Point:	Not applicable
Flammability (solid, gas):	Not flammable
Auto-ignition Temperature:	No information available
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	No information available
Upper:	No information available
Vapour Pressure:	Not applicable
Relative Density:	Not determined.
Vapour Density:	Not applicable
Evaporation Rate:	Not applicable
Solubility in Water:	Soluble
Partition Coefficient (n-octanol/water):	No information available
Viscosity:	No information available

10 Stability and Reactivity

Possibility of Hazardous Reactions:

Hazardous polymerisation will not occur.
 Reacts violently with acids.
 May be corrosive to metals and wood.
 Contact with acids may generate carbon dioxide and chlorine.
 Contact with ammonium salts may generate toxic ammonia gas.
 Contact with metals may generate flammable hydrogen gas.

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

Conditions to Avoid: Direct sunlight. Excessive moisture.

Incompatible Materials:

Acids, acidic salts, active metals, nitro compounds, organic halides, ammonium compounds and wood.

Hazardous Decomposition Products: Oxides of carbon, oxides of nitrogen and chlorine gas.

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11 Toxicological Information

Toxicity:**LD50/LC50 Values:****CAS: 1310-73-2 Sodium hydroxide**

Oral	LD50	1,350 mg/kg (Rattus norvegicus (rat))
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CAS: 497-19-8 Sodium carbonate

Oral	LD50	4,090 mg/kg (Rattus norvegicus (rat))
	LD50	>2,000 mg/kg (Oryctolagus cuniculus (rabbit))

CAS: 10213-79-3 Sodium metasilicate pentahydrate

Oral	LD50	847 mg/kg (Rattus norvegicus (rat))
	LD50	>5,000 mg/kg (Rattus norvegicus (rat))
Inhalation	LC50	>2,060 mg/m ³ (Rattus norvegicus (rat))

CAS: 7782-50-5 Chlorine

Inhalation	LC50/4 h	293 mg/l (Rattus norvegicus (rat))
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Acute Health Effects**Inhalation:**

May cause respiratory irritation, burning sensation in the chest, cough, laboured breathing, sore throat and runny nose.

Skin: Causes severe skin burns, redness and ulceration.

Eye: Causes serious eye damage. May cause redness and blurred vision.

Ingestion:

May cause irritation or burns to the mouth, nose, throat, oesophagus and stomach. May cause abdominal pain, nausea, vomiting, diarrhoea, low blood pressure, coma, heart failure and death. May cause swelling of the larynx and subsequent suffocation. Aspiration into the lungs may cause chemical pneumonitis and pulmonary oedema.

Skin Corrosion / Irritation: Causes severe skin burns.

Serious Eye Damage / Irritation: Causes serious eye damage.

Respiratory or Skin Sensitisation: Based on classification principles, the classification criteria are not met.

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

Carcinogenicity:

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

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.

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 data available.

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12 Ecological Information

Ecotoxicity:**Aquatic toxicity:**

Very toxic to aquatic life.

CAS: 1310-73-2 Sodium hydroxide

EC50/48 h	40.4 mg/l (Daphnia magna (water flea))
LC50/96 h	125 mg/l (Gambusia affinis (mosquito fish)) 45.4 mg/l (Oncorhynchus mykiss (rainbow trout))

CAS: 497-19-8 Sodium carbonate

EC50/48 h	200 mg/l (Daphnia magna (water flea))
LC50/96 h	300 mg/l (Lepomis macrochirus (bluegill))
EC50/120hr	242 mg/l (Algae)

Persistence and Degradability: No data available on finished product.**Bioaccumulative Potential:** No data available on finished product.**Mobility in Soil:** No data available on finished product.**Other adverse effects:** No further relevant information available.

13 Disposal Considerations

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.**Special Precautions for Landfill or Incineration:**

Please consult your state Land Waste Management Authority for more information.

14 Transport Information

UN Number**ADG, IMDG, IATA** UN3262**Proper Shipping Name****ADG, IMDG, IATA** CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE, CHLORINE), MARINE POLLUTANT**Dangerous Goods Class****ADG Class:** 8**Packing Group:****ADG, IMDG, IATA** I**Marine pollutant:**Yes
Symbol (fish and tree)**EMS Number:**

F-A,S-B

Hazchem Code:

2X

Special Provisions:

274

Excepted quantities (EQ): E0**Limited Quantities:**

0

15 Regulatory Information

Australian Inventory of Industrial Chemicals:

All components are on the inventory, or in compliance with the inventory.

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Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Poison Schedule:
Poisons Schedule: 6

16 Other Information

Date of Preparation or Last Revision: 22.01.2024**Prepared by:** MSDS.COM.AU Pty Ltdwww.msds.com.au**Abbreviations and acronyms:**

ADG: Australian Dangerous Goods

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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

LC50: Lethal concentration, 50 percent

LD50: 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)

Corrosive To Metals 1: Corrosive to metals – Category 1

Acute Toxicity (Inhalation) 3: Acute toxicity – Category 3

Skin Corrosion/Irritation 1A: Skin corrosion/irritation – Category 1A

Skin Corrosion/Irritation 1B: Skin corrosion/irritation – Category 1B

Skin Corrosion/Irritation 2: Skin corrosion/irritation – Category 2

Eye Damage 1: Serious eye damage/eye irritation – Category 1

Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Acute 1: Hazardous to the aquatic environment, short-term (Acute). Category 1

Disclaimer

This SDS is prepared in accord with the Safe Work Australia document “Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - July 2020”.

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