



SAFETY DATA SHEET

According to Safe Work Australia

Printing date 08.08.2014

Revision: 01.08.2014

1 . IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product Name: ALKA KLENZ PLUS

Other Name: Alkaline mixture of inorganic salts and surfactants.

Recommended Use of the Chemical and Restriction on Use: Dairy detergent.

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:



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

Label Elements

Signal Word Danger

Hazard Statements

H314 Causes severe skin burns and eye damage.

Precautionary Statements

- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P264 Wash hands thoroughly after handling.
 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.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national regulations.

3 . COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Characterization: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Hazardous Components:

497-19-8	Sodium carbonate ⚠ Eye Irrit. 2, H319	30-60%
10213-79-3	Sodium metasilicate pentahydrate ⚠ Met. Corr.1, H290; Skin Corr. 1B, H314; ⚠ STOT SE 3, H335	10-20%

(Contd. on page 2)



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Revision: 01.08.2014

Product Name: ALKA KLENZ PLUS

(Contd. of page 1)

1310-73-2	Sodium hydroxide (Na(OH)) Skin Corr. 1A, H314	10-20%
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4 . FIRST AID MEASURES

Inhalation:

If inhaled, remove to fresh air, rest and keep warm. Seek medical attention if breathing problems develop.

Skin Contact:

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

Eye Contact:

In case of eye contact, hold eyelids apart and flush eye with running water for at least 15 minutes or until advised to stop by Poisons Information Centre or a doctor. Seek immediate medical attention.

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

Information for Doctor

Product is a mixture of inorganic salts containing moderate proportions of sodium hydroxide and sodium metasilicate, and a low proportion of mixed surfactants. Causes severe burns to all tissues. If swallowed, may cause perforation of stomach and intestines; gastric lavage may be contraindicated. May cause swelling of the larynx and subsequent suffocation. Contact Poisons Information Centre.

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 aluminium, tin and zinc, generates flammable hydrogen gas. Combustion products include carbon dioxide, oxides of phosphorous and traces of sulphur oxides.

Special Protective Equipment and Precautions for Fire Fighters:

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

6 . ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear Safe Work Australia 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.

Methods and Materials for Containment and Cleaning Up:

Stop leak if safe to do so. Slippery when wet.

For small spills: If local regulations permit, mop up with plenty of water and run to waste, diluting greatly with running water. Otherwise absorb spill with inert absorbent material and transfer to a suitable container and arrange removal by a disposals company.

For large spills: absorb spill with sand, earth or other absorbent material. Transfer both solids and liquids to a suitable container for disposal. Treat residues as for small spillages.

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

(Contd. on page 3)



SAFETY DATA SHEET

According to Safe Work Australia

Printing date 08.08.2014

Revision: 01.08.2014

Product Name: ALKA KLENZ PLUS

(Contd. of page 2)

proximity to points of potential exposure.

Conditions for Safe Storage:

Store in a cool, dry and well ventilated area. Keep container tightly closed when not in use. Store in original container. Protect from physical damage, air, moisture and direct sunlight. Keep away from acids and acidic salts, oxidising agents, active metals such as aluminium, tin and zinc, wood and wood products (including paper, cardboard and chipboard), ammonium compounds, organic halides, nitro compounds and metal salts. Large quantities should be stored in dangerous goods store. Keep out of reach of children.

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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Engineering Controls:

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

Personal Protective Equipment (PPE):**Respiratory Protection:**

Where an inhalation risk exists, wear a Class P1 (particulate) respirator. At high dust levels, wear a powered air purifying respirator (PAPR) with Class P3 (Particulate) filter or an air-line respirator or a full-face Class 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 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, such as face shield and safety glasses. See Australian/New Zealand Standard AS/NZS 1337 for more information.

9 . PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Form:	Granular powder
Colour:	White
Odour:	Slight detergent odour.
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

(Contd. on page 4)



SAFETY DATA SHEET

According to Safe Work Australia

Printing date 08.08.2014

Revision: 01.08.2014

Product Name: ALKA KLENZ PLUS

(Contd. of page 3)

Vapour Pressure:	No information available
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 evolution of heat.
Partition Coefficient (n-octanol/water):	No information available
% Volatiles by Volume:	Nil
VOC:	Nil

10 . STABILITY AND REACTIVITY

Possibility of Hazardous Reactions:

Very alkaline. Will react violently with acids and acidic salts, generating carbon dioxide, a simple asphyxiant. Hygroscopic, will absorb moisture from the air. Will absorb carbon dioxide from the air. Contact with ammonium compounds may generate ammonia, a toxic gas. Corrosive to active metals, such as aluminium, tin and zinc. Contact with these metals generates hydrogen, a flammable gas. Will attack wood and wood products. May form shock sensitive products with organic nitro compounds. May attack glass on long contact. Mixtures with hot water may get hot enough to boil.

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Air, moisture, physical damage to container and direct sunlight.

Incompatible Materials:

Acids and acidic salts, oxidising agents, active metals such as aluminium, tin and zinc, ammonium compounds, wood and wood products (including paper, cardboard and chipboard), organic halides, nitro compounds and metal salts.

Hazardous Decomposition Products: Carbon dioxide, oxides of phosphorous and traces of sulphur oxides.

11 . TOXICOLOGICAL INFORMATION

Toxicity:

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

Acute Health Effects

Inhalation:

Inhalation of dust or aerosols may cause damage to the upper respiratory tract and lungs. Effects may range from mild irritation of the mucous membranes to severe pneumonitis (inflammation of the lung tissues), with coughing, burning sensation, laboured breathing, sneezing, sore throat and runny nose. Inhalation may cause pulmonary oedema (fluid build up in the lungs). Onset of symptoms may be delayed by several hours.

Skin:

Causes deep burns. Mists, aerosols and dusts may cause small burns. Symptoms may include redness, pain and serious skin burns.

(Contd. on page 5)



SAFETY DATA SHEET

According to Safe Work Australia

Printing date 08.08.2014

Revision: 01.08.2014

Product Name: ALKA KLENZ PLUS

(Contd. of page 4)

Eye:

Causes severe, deep burns. Contact with the eyes rapidly causes severe tissue damage, redness, pain and blurred vision. May cause permanent visual impairment.

Ingestion:

Corrosive, may cause severe burns to mouth, throat, stomach and intestines. May cause holes in the stomach and intestines. May cause nausea, vomiting, abdominal pains and occasionally bloody diarrhoea, fall in blood pressure, heart failure, coma and death. If not immediately fatal, may form constrictive scarring. Damage may not appear for several days, but may still prove fatal.

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: 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:

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:

Repeated or prolonged skin exposure may lead to dermatitic effects. The sites of scarring in the stomach have been linked to later development of stomach cancer.

Existing Conditions Aggravated by Exposure: No information available

12 . ECOLOGICAL INFORMATION

Ecotoxicity:

Harmful to aquatic organisms. Contains a moderate proportion of phosphate which may contribute to the development of algal blooms. Contains a low proportion of an alkoxyated alcohol; local concentrations may be harmful to aquatic organisms, including fish.

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.

(Contd. on page 6)



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Product Name: ALKA KLENZ PLUS

(Contd. of page 5)

14 . TRANSPORT INFORMATION

UN Number	
ADG	UN3262
Proper Shipping Name	
ADG	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (sodium hydroxide)
Dangerous Goods Class	
ADG Class:	8 Corrosive substances.
Packing Group:	
ADG	II
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:

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

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

Poisons Schedule: 6

16 . OTHER INFORMATION

Creation Date: 01.08.2014**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 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)

(Contd. on page 7)



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Product Name: ALKA KLENZ PLUS

(Contd. of page 6)

Disclaimer

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