

SAFETY DATA SHEET

According to Safe Work Australia

Printing date 27.08.2014

Revision: 27.08.2014

1 . IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product Name: KLENZ-IN-ONE**Other Name:** Phosphoric acid solution containing iodine and surfactants**Recommended Use of the Chemical and Restriction on Use:** Low foam dairy cleaner / sanitiser**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. 1B 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:**

7664-38-2	Phosphoric acid  Skin Corr. 1B, H314	>60%
111-76-2	Ethanol, 2-butoxy-  Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; H227	<10%

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	Surfactant	<10%
7553-56-2	Iodine	<1%
Aquatic Acute 1, H400; Acute Tox. 4, H312; Acute Tox. 4, H332		

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 immediate medical attention.

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

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

Inhalation: May cause a burning sensation in the chest, cough, laboured breathing, shortness of breath, sore throat and loss of consciousness.

Skin Contact: May cause redness, pain, cyanosis or pale skin, blisters and burns.

Eye Contact: May cause severe irritation, redness, pain, blurred vision and deep burns.

Ingestion: May cause pain in the throat and stomach, abdominal cramps, burning sensations, nausea, vomiting, intense thirst, weak and rapid pulse, shallow breathing, weakness, confusion, loss of consciousness, reduced urine output and death.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water fog or fine water spray.

Specific Hazards Arising from the Chemical:

Contact with metals may generate flammable hydrogen gas.

Hazardous combustion products include oxides of phosphorus, carbon, hydrogen iodide and iodine.

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 respiratory protection and full protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Increase 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 absorb spill with sand, earth, vermiculite or some other absorbent material. Collect the spilled material and place into a suitable container for disposal.

7. HANDLING AND STORAGE

Precautions for Safe Handling:

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Use only outdoors or in a well-ventilated area.

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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 and direct sunlight. Keep away from alkalis, oxidising agents, organic sulphides and mercaptans, epoxides, azo compounds and active metals.

8 . EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Standards:	
7664-38-2 Phosphoric acid	
NES	STEL: 3 mg/m ³ TWA: 1 mg/m ³
111-76-2 Ethanol, 2-butoxy-	
NES	STEL: 242 mg/m ³ , 50 ppm TWA: 96.9 mg/m ³ , 20 ppm Sk
7553-56-2 Iodine	
NES	TWA: 1 mg/m ³ , 0.1 ppm Peak limitation: 1 mg/m ³ , 0.1 ppm

Engineering Controls:

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

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

Use a Safe Work Australia approved vapour respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, 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:

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 splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.

9 . PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Form:	Mobile liquid
Colour:	Dark
Odour:	Mild detergent and iodine odour
Odour Threshold:	No information available
pH-Value:	About 1

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Melting point/Melting range:	No information available
Initial Boiling Point/Boiling Range:	> 100 °C
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:	No information available
Density:	No information available
Relative Density at 20 °C:	1.38 g/mL
Vapour Density:	No information available
Evaporation Rate:	No information available
Solubility in Water:	Miscible in all proportions
Partition Coefficient (n-octanol/water):	No information available
% Volatiles by Volume:	About 40 %
VOC:	<10 %

10 . STABILITY AND REACTIVITY

Possibility of Hazardous Reactions:

Strongly acidic, will react vigorously or violently with alkalis. Contact with carbonates or bicarbonates will generate carbon dioxide, a simple asphyxiant. May react with strong oxidising agents. May be corrosive to many common metals, generating flammable hydrogen gas.

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

Conditions to Avoid: Direct sunlight.

Incompatible Materials:

Alkalis, active metals, oxidising agents, mercaptans, epoxides, azo compounds and organic sulphides.

Hazardous Decomposition Products: Oxides of phosphorus, oxides of carbon, hydrogen iodide and iodine.

11 . TOXICOLOGICAL INFORMATION

Toxicity:

LD₅₀/LC₅₀ Values Relevant for Classification:		
7664-38-2 Phosphoric acid		
Oral	LDLo	220 mg/kg (human) (man)
	LD ₅₀	1530 mg/kg (rat)
Dermal	LD ₅₀	2740 mg/kg (rabbit)
Inhalation	LC ₅₀ /1 h	>850 mg/m ³ (rat)
111-76-2 Ethanol, 2-butoxy-		
Oral	LC ₅₀	2900 mg/m ³ /7 hrs (rat)
	LD ₅₀	1167 mg/kg (mouse)
		917 mg/kg (rat)
	LDLo	143 mg/kg (human)

Acute Health Effects

Inhalation:

May cause a burning sensation in the chest, cough, laboured breathing, shortness of breath, sore throat and loss of consciousness. 1-5 mg/m³ of phosphoric acid vapour/aerosol may cause irritation of the nose and

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throat, 4-11 mg/m³ may cause coughing. Aspiration of froth into the lungs may cause chemical pneumonitis (inflammation of lung tissues) and pulmonary oedema. Onset of symptoms may be delayed.

Skin: Severe skin irritant. May cause redness, pain, cyanosis or pale skin, blisters and burns.

Eye:

Severe eye irritant. May cause redness, pain, blurred vision and severe, deep burns. May cause chemical conjunctivitis and corneal damage.

Ingestion:

May cause pain in the throat and stomach, abdominal cramps, burning sensations, nausea, vomiting, intense thirst, weak and rapid pulse, shallow breathing, weakness, confusion, loss of consciousness, reduced urine output and death. May cause burns to the stomach and intestines, haemorrhaging of the digestive tract and corrosion and permanent tissue destruction of the oesophagus and digestive tract.

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:

Ethanol, 2-butoxy- is classified by IARC as Group 3 - Not classifiable as to its carcinogenicity to humans.

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:

Prolonged exposure to phosphoric acid may affect the blood, liver and bone marrow.

Prolonged exposure to ethylene glycol monobutyl ether may affect the blood and bone marrow.

Existing Conditions Aggravated by Exposure:

Persons with kidney, lung or thyroid disease, or dysfunction, should consult a physician before working with, or using, this product.

12 . ECOLOGICAL INFORMATION

Ecotoxicity:**Aquatic toxicity:**

Harmful to aquatic organisms. Contains phosphate, will contribute to the development of algal blooms in natural waters.

Persistence and Degradability: No information available

Bioaccumulative Potential: No information available

Mobility in Soil: No 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.

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14 . TRANSPORT INFORMATION

UN Number	1760
Proper Shipping Name	CORROSIVE LIQUID, N.O.S. (PHOSPHORIC ACID, IODINE)
Dangerous Goods Class	8
Packing Group:	III
EMS Number:	FA-SB
Hazchem Code:	2X
Special Provisions:	223, 274
Limited Quantities:	5L
Packagings & IBCs - Packing Instruction:	P001, IBC03, LP01
Packagings & IBCs - Special Packing Provisions:	Not applicable
Portable Tanks & Bulk Containers - Instructions:	T7
Portable Tanks & Bulk Containers - Special Provisions:	TP1, TP28

15 . REGULATORY INFORMATION

Australian Inventory of Chemical Substances:	
7664-38-2	Phosphoric acid
111-76-2	Ethanol, 2-butoxy-
7553-56-2	Iodine
7732-18-5	Water

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

16 . OTHER INFORMATION

Creation Date: 27.08.2014**Last Revision of MSDS:** 01.09.2009**Prepared by:** MSDS.COM.AU Pty Ltdwww.msds.com.au**Abbreviations and acronyms:**

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)

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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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