



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: KLEER X**Other Name:** Acidic detergent / sanitiser**Recommended Use of the Chemical and Restriction on Use:** Acid dairy detergent for milkstone removal**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	30-60%
	Surfactant		<10%
	Quaternary ammonium compound		<10%

(Contd. on page 2)



SAFETY DATA SHEET

According to Safe Work Australia

Printing date 27.08.2014

Revision: 27.08.2014

Product Name: KLEER X

(Contd. of page 1)

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 a burning sensation in the chest, coughing, laboured breathing, shortness of breath, sore throat and loss of consciousness.

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

Eye Contact: May cause redness, pain, blurred vision and severe deep burns, 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 corrosion and permanent tissue destruction of the oesophagus and digestive tract. May cause haemorrhaging of the gastrointestinal tract

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, zinc or galvanised iron may generate flammable hydrogen gas. Hazardous combustion products include oxides of phosphorous, carbon, nitrogen and hydrogen chloride.

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. 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 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.

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

(Contd. on page 3)



SAFETY DATA SHEET

According to Safe Work Australia

Printing date 27.08.2014

Revision: 27.08.2014

Product Name: KLEER X

(Contd. of page 2)

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 and active metals such as aluminium, zinc and galvanised iron.

8 . EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Standards:**7664-38-2 Phosphoric acid**

NES	STEL: 3 mg/m ³ TWA: 1 mg/m ³
-----	---

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:	Liquid
Colour:	Clear, colourless
Odour:	Mild detergent odour
Odour Threshold:	No information available
pH-Value:	About 1
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

(Contd. on page 4)



SAFETY DATA SHEET

According to Safe Work Australia

Printing date 27.08.2014

Revision: 27.08.2014

Product Name: KLEER X

(Contd. of page 3)

Density:	No information available
Relative Density at 20 °C:	1.29 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 44%
VOC:	<2 %

10 . STABILITY AND REACTIVITY

Possibility of Hazardous Reactions:

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

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

Conditions to Avoid: Direct sunlight.

Incompatible Materials: Alkalis, oxidising agents and active metals.

Hazardous Decomposition Products: Oxides of phosphorous, carbon, nitrogen and hydrogen chloride.

11 . TOXICOLOGICAL INFORMATION

Toxicity:

LD₅₀/LC₅₀ Values Relevant for Classification:

7664-38-2 Phosphoric acid

	LDLo	220 mg/kg (human) (man)
Oral	LD ₅₀	1530 mg/kg (rat)
Dermal	LD ₅₀	2740 mg/kg (rabbit)
Inhalation	LC ₅₀ /1 h	>850 mg/m ³ (rat)

Acute Health Effects

Inhalation:

May cause a burning sensation in the chest, coughing, laboured breathing, shortness of breath, sore throat and loss of consciousness. Corrosive to lung tissues; 1-5 mg/m³ of phosphoric acid will irritate the nose and throat, 4-11 mg/m³ may cause coughing. Aspiration of froth into lungs during swallowing or vomiting may cause chemical pneumonitis (inflammation of lung tissues) and pulmonary oedema (build up of fluid in the lungs). Onset of symptoms may be delayed.

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

Eye:

May cause redness, pain, blurred vision and severe deep burns, 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 corrosion and permanent tissue destruction of the oesophagus and digestive tract. May cause haemorrhaging of the gastrointestinal 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.

(Contd. on page 5)



SAFETY DATA SHEET

According to Safe Work Australia

Printing date 27.08.2014

Revision: 27.08.2014

Product Name: KLEER X

(Contd. of page 4)

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

Existing Conditions Aggravated by Exposure: No information available

12 . ECOLOGICAL INFORMATION

Ecotoxicity:

Aquatic toxicity:

Harmful to aquatic organisms. Contains surfactant, local concentrations will be harmful to aquatic organisms, including fish. Contains inorganic phosphate, will contribute to the development of algal blooms in natural waters.

Persistence and Degradability:

The surfactant used in this product is not considered to be readily biodegradable. (According to AS4351, part 2 test method).

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.

14 . TRANSPORT INFORMATION

UN Number	1805
Proper Shipping Name	PHOSPHORIC ACID, SOLUTION
Dangerous Goods Class	8
Packing Group:	III
EMS Number:	FA-SB
Hazchem Code:	2X
Special Provisions:	223
Limited Quantities:	5L
Packagings & IBCs - Packing Instruction:	P001, IBC03, LP01
Packagings & IBCs - Special Packing Provisions:	Not applicable

(Contd. on page 6)



SAFETY DATA SHEET

According to Safe Work Australia

Printing date 27.08.2014

Revision: 27.08.2014

Product Name: KLEER X

(Contd. of page 5)

Portable Tanks & Bulk Containers - Instructions: T4**Portable Tanks & Bulk Containers - Special Provisions: TP1**

15 . REGULATORY INFORMATION

Australian Inventory of Chemical Substances:

7664-38-2	Phosphoric acid
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)

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"

The information contained in this material safety data sheet is provided in good faith and is believed to be accurate at the date of issuance. DASCO Pty Ltd makes no representation of the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. MSDS.COM.AU Pty Ltd is not in a position to warrant the accuracy of the data herein. The user is cautioned to make their own determinations as to the suitability of the information provided to the particular circumstances in which the product is used.