

According to Safe Work Australia

Printing date 27.08.2014 Revision: 27.08.2014

1. IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product Name: IOPHOS

Other Name: An iodophor in phosphoric acid solution

Recommended Use of the Chemical and Restriction on Use: Dairy equipment 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:



Skin Corr. 1C 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	10-30%	
	Skin Corr. 1B, H314		
7553-56-2	lodine	<10%	
	♦ Aquatic Acute 1, H400; ♦ Acute Tox. 4, H312; Acute Tox. 4, H332		
	Non-ionic surfactant	10-30%	

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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.

Eve 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: Inhalation of iodine vapour may cause irritation of the nose and throat, irritation and burning of the eyes, lachrymation, coughing and shortness of breath.

Skin Contact: May cause redness, pain and serious skin burns. Will stain the skin.

Eye Contact: Iodine vapour will stain the eyes. Liquid splashed into the eyes will cause severe irritation, redness, pain and blurred vision. May cause severe, deep burns.

Ingestion: May cause salivation, excessive tearing, swelling of the eyelids, soreness and swelling of the salivary glands, metallic taste, skin rash, fever, enlarged lymph glands, severe vomiting, diarrhoea, abdominal pain, thirst, burning sensations, shock, fever, suppression of urine, delirium, stupor and death from circulatory failure.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water fog or fine water spray.

Specific Hazards Arising from the Chemical:

No fire or explosion hazard exists.

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

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.

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

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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, active metals, wood and paper products and mineral acids.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Standards:				
7664-38-2 Phosphoric acid				
NES	STEL: 3 mg/m³ TWA: 1 mg/m³			
7553-56-2 lodine				
	TWA: 1 mg/m³, 0.1 ppm Peak limitation: 1 mg/m³, 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.

Eve 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: Frothing liquid Colour: Dark brown

Odour: Characteristic iodine odour Odour Threshold: No information available

pH-Value: <2 (Very acidic)

Melting point/Melting range: <0 °C Initial Boiling Point/Boiling Range: >100 °C Not applicable

Flammability: Product is not flammable.

Auto-ignition Temperature: No information available

Decomposition Temperature: No information available

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Explosion Limits:

Lower: Not applicable Upper: Not applicable

Vapour Pressure:No information availableDensity:No information available

Relative Density at 20 °C: About 1.1 g/mL

Vapour Density:

Evaporation Rate:

Solubility in Water:

No information available
No information available
Miscible in all proportions
Partition Coefficient (n-octanol/water): No information available

% Volatiles by Volume: About 75 %

VOC: Nil

10. STABILITY AND REACTIVITY

Possibility of Hazardous Reactions:

Acidic mixture, will react vigorously or violently with alkalis. Contact with carbonates or bicarbonates will generate carbon dioxide, a simple asphyxiant. Reaction with strong mineral acids may generate iodine vapour. Corrosive to many common metals. Will attack wood and paper products.

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

Conditions to Avoid: Heat and direct sunlight.

Incompatible Materials:

Active metals, wood and wood products, alkalis including carbonates and bicarbonates, mineral acids and oxidising agents.

Hazardous Decomposition Products: lodine, hydrogen iodide and oxides of phosphorous.

11. TOXICOLOGICAL INFORMATION

Toxicity:

LD ₅₀ /LC ₅₀ Values Relevant for Classification:						
7664-38	7664-38-2 Phosphoric acid					
Oral	LD ₅₀	1530 mg/kg (rat)				
Dermal	LD ₅₀	2740 mg/kg (rabbit)				
7553-56-2 lodine						
Oral	LD ₅₀	14000 mg/kg (rat)				
	LDLo	28 mg/kg (human)				
	TDLo	26 mg/kg/1 year (human) (woman)				

Acute Health Effects

Inhalation:

Inhalation of iodine vapour may cause irritation of the nose and throat, irritation and burning of the eyes, lachrymation, coughing and shortness of breath. Aspiration of acidic froth containing available iodine into the lungs may cause severe lung irritation, chemical pneumonitis (inflammation of lung tissues), pulmonary oedema (fluid build up in lungs) which may become a medical emergency. Onset of symptoms may be delayed.

Skin:

Will stain the skin. May cause redness, pain and serious skin burns. Iodine absorbed through the skin may lead to symptoms similar to those of ingestion.

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Eve:

lodine vapour will stain the eyes. Liquid splashed into the eyes will cause severe irritation, redness, pain and blurred vision. May cause severe, deep burns.

Ingestion:

Harmful if swallowed. May cause salivation, excessive tearing, swelling of the eyelids, soreness and swelling of the salivary glands, metallic taste, skin rash, fever, enlarged lymph glands, severe vomiting, diarrhoea, abdominal pain, thirst, burning sensations, shock, fever, suppression of urine, delirium, stupor and death from circulatory failure. May cause thyroid hyper function.

Skin Corrosion / Irritation: Causes severe skin burns.

Serious Eye Damage / Irritation: Causes 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:

Chronic exposure to iodine vapour may cause tremors, insomnia, rapid heart beat, weight loss and iodism characterised by salivation, nasal discharge, sneezing, conjunctivitis, fever, laryngitis, bronchitis, stomatitis and skin rashes. Iodine is a sensitiser, and for some individuals a subsequent exposure may cause a rash, swelling of the vocal chords, general allergic reaction and pain and swelling in the joints.

Existing Conditions Aggravated by Exposure:

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

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 which 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.

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: 273, 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			
7553-56-2	lodine			

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 Ltd www.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 LC₅o: 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)

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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