

Safety Data Sheet

according to WHS Regulations

Printing date 02.09.2019

Revision: 02.09.2019

1 Identification

Product Name: IOPHOS**Other Means of Identification:** Mixture**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:** National Poison 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 1B H314 Causes severe skin burns and eye damage.

Serious Eye Damage/Irritation 1 H318 Causes serious eye damage.

Aquatic Acute 2 H401 Toxic to aquatic life.

Signal Word Danger**Hazard Statements**

H314 Causes severe skin burns and eye damage.

H401 Toxic to aquatic life.

Precautionary Statements

P260 Do not breathe dusts or mists.

P264 Wash hands thoroughly after handling.

P273 Avoid release to the environment.

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): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep 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.

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.

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Hazardous Components:		
CAS: 7664-38-2	Phosphoric acid  Skin Corrosion/Irritation 1B, H314; Serious Eye Damage/Irritation 1, H318;  Acute Toxicity (Inhalation) 4, H332	10 - 30%
CAS: 7553-56-2	Iodine  Aquatic Acute 1, H400;  Acute Toxicity (Dermal) 4, H312; Acute Toxicity (Inhalation) 4, H332	<10%

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, hold eyelids open and rinse with water for at least 15 minutes. Seek medical attention if symptoms occur.

Ingestion:

If swallowed, do not induce vomiting. Immediately rinse mouth with water. Give a glass of water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Symptoms Caused by Exposure:

Inhalation: May cause respiratory irritation, coughing, shortness of breath and sneezing. May lead to chemical pneumonitis and pulmonary oedema.

Skin Contact: Causes severe skin burns and redness. May stain the skin.

Eye Contact: Causes eye damage, irritation, redness, lachrymation and blurred vision. May stain the eyes.

Ingestion: May cause salivation, soreness and swelling of the salivary glands, metallic taste, fever, 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:

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

This product is not flammable, but may decompose in a fire.

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

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 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.

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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:

Reacts violently with bases.

May be corrosive to metals and wood.

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours.

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 container tightly closed when not in use. Store in original container. Protect containers from physical damage. Protect from direct sunlight and heat.

Keep away from bases including carbonates and bicarbonates, strong acids, metals and wood.

8 Exposure Controls and Personal Protection

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

WES	STEL: 3 mg/m ³
	TWA: 1 mg/m ³

CAS: 7553-56-2 Iodine

WES	Peak limitation: 1 mg/m ³ , 0.1 ppm
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Engineering Controls:

Maintain air concentration below occupational exposure standards, providing adequate ventilation.

Respiratory Protection:

Use an 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:**

Frothing liquid

Colour:

Dark brown

Odour:

Characteristic iodine odour

Odour Threshold:

No information available

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pH-Value:	<2 (Very acidic)
Melting point/freezing point:	<0 °C
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:	~1.1
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:	~75 %

10 Stability and Reactivity

Possibility of Hazardous Reactions:

Hazardous polymerisation will not occur.
 Reacts violently with bases.
 May be corrosive to metals and wood.
 Contact with carbonates or bicarbonates may generate carbon dioxide.
 Contact with acids may generate iodine gas.

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

Conditions to Avoid: Physical damage to container, direct sunlight and heat.

Incompatible Materials: Bases including carbonates and bicarbonates, strong acids, metals and wood.

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

11 Toxicological Information

Toxicity:

LD₅₀/LC₅₀ Values Relevant for Classification:

CAS: 7664-38-2 Phosphoric acid

Oral	LD ₅₀	1530 mg/kg (rat)
Dermal	LD ₅₀	2740 mg/kg (rabbit)

CAS: 7553-56-2 Iodine

Oral	LD ₅₀	14000 mg/kg (rat)
	LDLo	28 mg/kg (human)
	TDL ₀	26 mg/kg/1 year (human) (woman)

Acute Health Effects

Inhalation:

May cause respiratory irritation, coughing, shortness of breath and sneezing. May lead to chemical pneumonitis and pulmonary oedema.

Skin: Causes severe skin burns and redness. May stain the skin.

Eye: Causes eye damage, irritation, redness, lachrymation and blurred vision. May stain the eyes.

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Ingestion:

May cause salivation, soreness and swelling of the salivary glands, metallic taste, fever, vomiting, diarrhoea, abdominal pain, thirst, burning sensations, shock, fever, suppression of urine, delirium, stupor and death from circulatory failure.

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, 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.

May cause thyroid hyperactivity and swelling of lymph glands.

Existing Conditions Aggravated by Exposure:

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

Additional toxicological information: No information available

12 Ecological Information

Ecotoxicity: This product contains phosphates which may contribute to the development of algal blooms.

Aquatic toxicity:

Toxic to aquatic life with long lasting effects.

CAS: 7664-38-2 Phosphoric acid

EC ₅₀	270 mg/l (activated sludge inhibition)
EC ₅₀ /48 h	>100 mg/l (daphnia)
EC ₅₀ /72 h	>100 mg/l (scenedesmus subspicatus)
LC ₅₀ /96 h	138 mg/l (mosquito fish)

Persistence and Degradability:

The surfactant used in this product is not considered to be readily biodegradable.

Bioaccumulative Potential: No further relevant information available.

Mobility in Soil: No further relevant information available.

Other adverse effects: No further relevant information available.

13 Disposal Considerations

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.

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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	UN1760
Proper Shipping Name	
ADG, IMDG, IATA	CORROSIVE LIQUID, N.O.S. (phosphoric acid, iodine)
Dangerous Goods Class	
ADG Class:	8 Corrosive substances.
Packing Group:	
ADG, IMDG, IATA	III
EMS Number:	F-A,S-B
Hazchem Code:	2X
Special Provisions:	223, 274
Limited Quantities:	5L
Packagings & IBCs - Packing Instruction:	P001, IBC03, LP01
Portable Tanks & Bulk Containers - Instructions:	T7
Portable Tanks & Bulk Containers - Special Provisions:	TP1, TP28

15 Regulatory Information**Australian Inventory of Chemical Substances:**

CAS: 7664-38-2 Phosphoric acid

CAS: 7553-56-2 Iodine

CAS: 7732-18-5 Water

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

Poisons Schedule: 6

16 Other Information**Date of Preparation or Last Revision:** 02.09.2019**Last Revision of MSDS:** 01.09.2009**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 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)

Acute Toxicity (Inhalation) 4: Acute toxicity – Category 4

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Skin Corrosion/Irritation 1B: Skin corrosion/irritation – Category 1B
Serious Eye Damage/Irritation 1: Serious eye damage/eye irritation – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment, short-term (Acute). Category 1
Aquatic Acute 2: Hazardous to the aquatic environment, short-term (Acute). Category 2

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 - February 2016”

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