

Section 1: Identification

Product identifier:

Identification as on the label/Trade name: IOSAN

Other means of identification: WW-IOSAN

Relevant identification uses of the substance and uses advised against:**Recommended use:** Bar class sanitizer.**Restrictions on use:** Keep away from children.**Manufacturer/Supplier identifier:**

BBSpro Services Inc
204-11 Burbidge St
Coquitlam
B.C. V3K 7B2
Canada +1-604-420-4305

Emergency telephone numbers:

Emergency Contact:

BBSpro Services Inc: +1-877-420-4305 (24 hours)

CANUTEC (Transportation Emergency Only): +1-613-996-6666 (24 hours)

Section 2: Hazard Identification

Classification of the mixture:

The mixture is classified according to: Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

Hazard classes/Hazard categories:

Skin Corrosive (Category 1B)

Eye Damage (Category 1)

Aquatic Acute (Category 2)

Label elements:**Hazard pictograms:**

Signal word: Danger.

Hazard statements:

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H401 Toxic to aquatic life.

Precautionary statements:

P260 Do not breathe dusts or mists.

P264 Wash hands and skin 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.

P302 + P361 + P354 IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes.

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

P305 + P354 + P338 IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P316 Get emergency medical help immediately.

P321 Specific treatment (see supplemental first aid instruction on this label).

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards which do not result in classification: None.

Section 3: Composition/Information on Ingredients

Substance/Mixture: Mixture.

Ingredients:

Substance name (IUPAC/EC)	CAS-No.	Concentration % by weight	SCLs, M-Factors, Acute Toxicity Estimates (ATE)	Classification EC1272/2008
	EC-No.			
iodine	7553-56-2	5-10%	-	Acute Tox. 4 H312 Acute Tox. 4 H332 Aquatic Acute 1 H400
	231-442-4			
phosphoric acid	7664-38-2	5-10%	Eye Irrit. 2; H319: 10% ≤ C < 25% Skin Corr. 1B; H314: C ≥ 25% Skin Irrit. 2; H315: 10% ≤ C < 25%	Skin Corr. 1B H314
	231-633-2			

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Section 4: First-Aid Measures

Description of first aid measures:

Inhalation: Breathe fresh air. If breathing discomfort occurs and persists after cessation of exposure, see a medical doctor.

Skin contact: Rinse with water and soap. Take off immediately all contaminated clothing. Consult a doctor if irritation persists.

Eye contact: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Seek medical advice.

Ingestion: If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. Seek medical advice at once.

Most important symptoms and effects, both acute and delayed:

Inhalation: Not expected to be an inhalation hazard unless heated or misted. Can irritate the nose and throat.

Skin Contact: Contact can cause pain, redness, burns, and blistering. Permanent scarring can result.

Eye Contact: Contact causes severe burns with redness, swelling, pain and blurred vision. Permanent damage including blindness can result.

Ingestion: Can burn the lips, tongue, throat and stomach. Symptoms may include nausea, vomiting, stomach cramps and diarrhea.

Indication of any immediate medical attention and special treatment needed:

Treat symptomatically and supportively.

Section 5: Fire-Fighting Measures

Extinguisher media:

Suitable extinguisher media: Put out the fire using appropriate agents against the surrounding fire.

Unsuitable extinguishing media: None.

Special hazards arising from the hazardous product: Hydrogen gas is released in contact with most metals.

Special protective equipment and precautions for fire-fighters: According to the combustible substance involved. Other recommendations: Cool closed containers exposed to fire with water spray.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Wear personal protective equipment.

Environmental precautions: Contain and collect spillage with noncombustible absorbent material, (e.g., sand, earth, diatomaceous earth, vermiculite). Avoid undiluted spillage entering the sewers, basements or pits and watercourses.

Methods and materials for containment and cleaning up:

Ventilate area and wash spill site after material pickup is complete. Throw sand, ashes or powder cement to absorb the liquid. Neutralize with slaked lime (calcium hydroxide), sodium carbonate, calcium carbonate or sodium bicarbonate. Place in container for disposal according to local / national regulations.

Section 7: Handling and Storage

Precautions for safe handling:

Ensure that that all engineering controls are operating and that protective equipment requirements and personal hygiene measures are being followed. Use with adequate ventilation. Avoid generating vapors or mists. Immediately report leaks, spills or failures of the safety equipment.

Conditions for safe storage, including incompatible materials:

Store in cool, dry, clean, well-ventilated areas away from alkaline products and metals. Do not store in direct sunlight.

Section 8: Exposure Controls / Personal Protection

Control parameters:

Occupational exposure limits:

Orthophosphoric acid, CAS 7664-38-2

NIOSH REL

TWA 1 mg/m³ ST 3 mg/m³

OSHA PEL

TWA 1 mg/m³

Iodine, CAS 7553-56-2

NIOSH REL

C 0.1 ppm (1 mg/m³)

OSHA PEL

C 0.1 ppm (1 mg/m³)

Exposure controls:

Appropriate engineering controls: Use local exhaust ventilation, if general ventilation is not adequate to control amount in the air. Provide eyewash and safety shower if contact or splash hazard exists.

Individual protection measures, such as personal protective equipment:

Respiratory protection: Not required under normal conditions. In foggy/vapors situations, use a spreading over all facemask with a suitable inorganic acid filter. If product air concentration is not known, use autonomous breathing equipment.

Hand protection: Wear suitable gloves (Neoprene gloves).

Eye Protection: Chemical safety goggles to chemical products or a face protection shield.

Skin protection: Use natural rubber boots. Use acid resistant protective clothing.

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties:

Appearance (form): Liquid.

Color: Brown.

Odor: Soapy.

Odor threshold: No data available.

pH: 2.3

Melting point/Freezing point: No data available.

Initial boiling point/boiling range: ~100 °C

Flash point (°C): No data available.

Evaporation rate: No data available.

Flammability (solid, gas): No data available.

Lower flammable/explosive limit: No data available.

Upper flammable/explosive limit: No data available.

Vapor pressure: No data available.

Vapor density: No data available.

Relative density: 1.06

Solubility: Soluble in all proportions in water. No data available (for other liquids).

n-Octanol/Water partition coefficient: No data available.

Auto-ignition temperature: No data available.

Decomposition temperature: No data available.

Viscosity: No data available.

Section 10: Stability and Reactivity

Reactivity: No specific data is available for this product.

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: None expected under normal conditions of storage and use.

Conditions to avoid: Alkaline conditions.

Incompatible materials: Strong bases, strong oxidizing agents, iron, carbon steel.

Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition should not occur.

Section 11: Toxicological Information

Information on toxicological effects:

Acute toxicity:

Orthophosphoric acid, CAS 7664-38-2

Acute toxicity, oral: LD50 1,530 mg/kg (rat)

Acute toxicity, dermal: LD50 2,740 mg/kg (rabbit)

Iodine, CAS 7553-56-2

LC50 (4h) 4,588 mg/L air (rat)

Skin corrosion/irritation: Causes severe skin burns and eye damage.



Serious eye damage/irritation: Causes serious eye damage.

Respiratory or skin sensitization: No data available.

Germ cell mutagenicity: No data available.

Carcinogenicity: No data available.

Reproductive toxicity: No data available.

STOT-single exposure: No data available.

STOT-repeated exposure: No data available.

Aspiration hazard: No data available.

Section 12: Ecological Information

Toxicity: Toxic to aquatic life.

Persistence and degradability: No data available.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

Other adverse effects: No data available.

Section 13: Disposal Considerations

Method of disposal: The residue of the containers or the used container itself should be disposed in accordance with local requirements. Sodium carbonate, calcium carbonate and slaked lime (calcium hydroxide) can be used as neutralizers' agents for the material that cannot be eliminated. If phosphoric acid is going to be used in aqueous solutions reactions, rinse three times the drum with water. Comply with local regulations for disposal.

Contaminated packaging: Dispose of as unused product.

Section 14: Transport Information

UN number: 1805

UN proper shipping name: PHOSPHORIC ACID, SOLUTION

Hazard class: 8

Packing group: III

Environmental hazards: No.

Transport in bulk according to Annex II of Marpol and the IBC Code: Not applicable.

Special precautions for user: Refer to Sections 6 – 8.

Section 15: Regulatory Information

Safety, health and environmental regulations/legislation for the mixture:

WHMIS Classification: This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

Canadian DSL/NDSL Inventory Status:

DSL: Yes

NDSL: No

Other Canadian Regulations: Not applicable.

Chemical Safety Assessment carried out: No.

Section 16: Other Information

Date of the latest revision of the SDS: 29-Jan-2022

Indication of changes: GHS aligned.

Relevant classification and H statements (number and full text):

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H400 Very toxic to aquatic life.

H401 Toxic to aquatic life.

NFPA rating:



Health: 3 - Materials that, under emergency conditions, can cause serious or permanent injury.

Fire: 0 - Materials that will not burn. This includes any material that will not burn in air when exposed to a temperature of 1500 degrees F (815.5 degrees C) for a period of 5 min.

Reactivity: 0 - Materials that in themselves are normally stable, even under fire conditions.

Further information: This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Notice to readers: Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

References:

ECHA (European Chemicals Agency): Summary of CLP and Guidance on Safe Use Dossiers.

Canadian Centre for Occupational Health and Safety: WHMIS 1988 - Material Safety Data Sheets (MSDSs)

Canadian Centre for Occupational Health and Safety: Chem Profiles - Phosphoric Acid (Solutions)

pubchem.ncbi.nlm.nih.gov/compound/Phosphoric-acid

GESTIS International Limit Values

Supplier SDSs