

Iosan

SAFETY DATA SHEET

Preparation Date: 02-Jan-2008

Revision Date: 08-Jun-2018

Revision Number: 3

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Identifier

Product Name Iosan

Other means of identification

Item#: CAN6110

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use Sanitizer

Uses advised against All other

Details of the supplier of the safety data sheet

Supplier DeLaval Inc.
10900 Rue Secant Street
Ville d'Anjou, Quebec H1J 1S5
Tel: (705) 741-3100

Emergency Telephone Number

(613) 996-6666 (Canutec)

2. HAZARDS IDENTIFICATION

Classification

Acute Toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Corrosive to metals	Category 1

Label Elements

DANGER

Hazard statements

Harmful if swallowed

Harmful if inhaled

Causes severe skin burns and eye damage

May be corrosive to metals



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling
 Do not eat, drink or smoke when using this product
 Use only outdoors or in a well-ventilated area
 Do not breathe dust/fume/gas/mist/vapors/spray
 Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

Specific treatment (see First Aid on this label)
 Immediately call a POISON CENTER or doctor

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Corrosive to the eyes and may cause severe damage including blindness. Immediately call a POISON CENTER or doctor.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower Extremely corrosive and destructive to tissue. Wash contaminated clothing before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth. Do not induce vomiting. Ingestion causes burns of the upper digestive and respiratory tracts.

Precautionary Statements - Storage

Store locked up.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical name	CAS No	Weight %
Iodine	7553-56-2	1.75
Phosphoric acid	7664-38-2	10 - 30*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first-aid measures

Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately.
Skin contact	Wash off immediately with plenty of water for at least 15 minutes. Call a physician immediately.
Inhalation	Move to fresh air. If not breathing, give artificial respiration. Call a physician or Poison Control Center immediately.
Ingestion	Do not induce vomiting. Drink 1 or 2 glasses of water. Call a physician or Poison Control Center immediately. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Corrosive. The product causes burns of eyes, skin and mucous membranes.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Will burn if dried and heated with a flame. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

No information available

Specific hazards arising from the chemical

The product causes burns of eyes, skin and mucous membranes.

Hazardous Combustion Products

Thermal decomposition can lead to release of irritating gases and vapours.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health hazards 3

Flammability 0

Instability 0

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothing. Use personal protective equipment.

Environmental Precautions

Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Handling

Avoid contact with skin, eyes and clothing.

Conditions for safe storage, including any incompatibilities

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Do not freeze.

Incompatible Materials

bases, light metals (e.g. aluminum, copper, brass, zinc galvanized), bleach.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Only constituents with exposure limits are listed. Any constituent not listed has no known exposure limit.

Chemical name	Alberta	British Columbia	Ontario TWAEV	Quebec
Iodine 7553-56-2	Ceiling: 0.1 ppm Ceiling: 1 mg/m ³	Ceiling: 0.1 ppm	TWA: 0.01 ppm STEL: 0.1 ppm	Ceiling: 0.1 ppm Ceiling: 1.0 mg/m ³

Phosphoric acid 7664-38-2	TWA: 1 mg/m ³ STEL: 3 mg/m ³	TWA: 1 mg/m ³ STEL: 3 mg/m ³	TWA: 1 mg/m ³ STEL: 3 mg/m ³	TWA: 1 mg/m ³ STEL: 3 mg/m ³
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Appropriate engineering controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/face Protection Safety glasses with side-shields

Skin and body protection Rubber gloves, Long sleeved clothing, Chemical resistant apron.

Respiratory Protection In case of inadequate ventilation wear respiratory protection.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid	Odor	No information available
Appearance	Dark brown	Odor Threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks/ • Method</u>
pH	<1	No data available
Melting point/freezing point	No data available	No data available
Boiling Point/Range	No data available	No data available
Flash Point	No data available	No data available
Evaporation rate	No data available	No data available
Flammability (solid, gas)	No data available	No data available
Flammability Limit in Air		No data available
Upper flammability limit	No data available	
Lower flammability limit	No data available	
Vapor Pressure	No data available	No data available
Vapor Density	No data available	No data available
Specific Gravity	1.14	No data available
Water Solubility	No data available	No data available
Partition coefficient: n-octanol/water	No data available	No data available
Autoignition Temperature	No data available	No data available
Decomposition temperature	No data available	No data available
Viscosity of Product	No data available	No data available

Other information

Density 1.1 g/mL

10. STABILITY AND REACTIVITY

Reactivity

May react with other chemicals, Do not mix with other chemicals except as directed on label

Chemical Stability

Stable under normal conditions.

Possibility of hazardous reactions

None known

Conditions to Avoid

Extremes of temperature and direct sunlight

Incompatible Materials

bases, light metals (e.g. aluminum, copper, brass, zinc galvanized), bleach.

Hazardous decomposition products

None known.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eyes Corrosive to the eyes and may cause severe damage including blindness.

Skin Extremely corrosive and destructive to tissue

Ingestion Ingestion causes burns of the upper digestive and respiratory tracts.

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 1,933.00

ATEmix (dermal) 2,281.00

ATEmix (inhalation-dust/mist) 1.50

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Iodine 7553-56-2	14000 mg/Kg	-	137 ppm 4.588 mg/L
Phosphoric acid 7664-38-2	= 1530 mg/kg (Rat)	2730 mg/kg (Rabbit)	850 mg/m ³ (Rat) 1 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization None known

Mutagenic effects None known

Carcinogenicity Contains no ingredient listed as a carcinogen

Reproductive Effects None known

STOT - single exposure None known

STOT - repeated exposure None known

Aspiration Hazard None known

12. ECOLOGICAL INFORMATION

Ecotoxicity

If available, ecotoxicity values of individual components are shown below.

Chemical name	Algae/aquatic plants	Fish	Microtox	Waterflea
Iodine 7553-56-2	-	LC50 (96 h) 0.53 mg/L	-	LC50 (48 h) 0.16 mg/L
Phosphoric acid 7664-38-2	-	3 - 3.5: 96 h <i>Gambusia</i> <i>affinis</i> mg/L LC50	-	4.6: 12 h <i>Daphnia</i> <i>magna</i> mg/L EC50

Persistence and degradability

No information available.

Bioaccumulation/Accumulation

No information available.

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Method	Dispose of in accordance with local regulations. Should not be released into the environment.
Contaminated Packaging	Empty containers should be taken for local recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION

DOT

UN-No	1903
Proper Shipping Name	Disinfectant, liquid, corrosive, n.o.s (Phosphoric acid)
Hazard Class	8
Packing Group	III

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

International Regulations

Ozone-depleting substances (ODS)	Not applicable
Persistent Organic Pollutants	Not applicable
The Rotterdam Convention	Not applicable

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

Preparation Date:	02-Jan-2008
Revision Date:	08-Jun-2018
Revision Note:	No information available.

Disclaimer

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End of Safety Data Sheet