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## **SAFETY DATA SHEET**

(REACH regulation (EC) n° 1907/2006 - n° 2015/830)

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product name: IODOL 100 Product code: 1116305.

## 1.2. Relevant identified uses of the substance or mixture and uses advised against

For professional use only

PT 4 biocide Disinfectant for pipes in farms
PT3 biocide: Disinfectant for veteninary uses

#### 1.3. Details of the supplier of the safety data sheet

Registered company name: LABORATOIRE MERIEL.

Address: 12 rue de Malacussy. 42100. SAINT ETIENNE. FRANCE.

Telephone: 0477810085. Fax: 0477810173.

fds@labomeriel.fr

### 1.4. Emergency telephone number: 33 (0)1 45 42 59 59.

Association/Organisation: INRS/ ORFILA http://www.centres-antipoison.net.

### **SECTION 2: HAZARDS IDENTIFICATION**

#### 2.1. Classification of the substance or mixture

## In compliance with EC regulation No. 1272/2008 and its amendments.

Substance that is corrosive to metals, Category 1 (Met. Corr. 1, H290).

Skin corrosion, Category 1B (Skin Corr. 1B, H314).

Serious eye damage, Category 1 (Eye Dam. 1, H318).

Corrosive to the respiratory tract (EUH071).

Specific target organ toxicity (repeated exposure), Category 2 (STOT RE 2, H373).

Hazardous to the aquatic environment - Chronic hazard, Category 3 (Aquatic Chronic 3, H412).

#### 2.2. Label elements

Biocidal mixture (see section 15).

Mixture for spray application.

### In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms:





GHS05 GHS08

Signal Word : DANGER

Product identifiers:

EC 231-633-2 PHOSPHORIC ACID

CAS 68439-50-9 FATTY ALCOHOL ETHOXYLATED

EC 231-442-4 IODINE

Hazard statements:

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H373 May cause damage to organs through prolonged or repeated exposure (if swallowed).

H412 Harmful to aquatic life with long lasting effects.

EUH071 Corrosive to the respiratory tract.

Precautionary statements - Prevention:

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash ... thoroughly after handling.

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P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements - Response:

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 [or

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/...
P314 Get medical advice/attention if you feel unwell.
P363 Wash contaminated clothing before reuse.

Precautionary statements - Storage:

P405 Store locked up.

Precautionary statements - Disposal:

P501 Dispose of contents/container according to local regulation

#### 2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) >= 0.1% published by the European CHemicals Agency (ECHA) under article 57 of REACH: http://echa.europa.eu/fr/candidate-list-table

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2. Mixtures

#### **Composition:**

Identification	(EC) 1272/2008	Note	%
CAS: 7664-38-2	GHS05	В	$2.5 \ll x \% < 10$
EC: 231-633-2	Dgr	[1]	
REACH: 01-2119485924-24-xxxx	Skin Corr. 1B, H314		
PHOSPHORIC ACID			
CAS: 68439-50-9	GHS07, GHS05		$2.5 \ll x \% < 10$
	Dgr		
FATTY ALCOHOL ETHOXYLATED	Acute Tox. 4, H302		
	Eye Dam. 1, H318		
	Aquatic Chronic 3, H412		
CAS: 7553-56-2	GHS07, GHS09, GHS08	[1]	0 <= x % < 2.5
EC: 231-442-4	Dgr		
REACH: 01-2119485285-30-xxxx	Acute Tox. 4, H302		
	Acute Tox. 4, H312		
IODINE	Skin Irrit. 2, H315		
	Eye Irrit. 2, H319		
	Acute Tox. 4, H332		
	STOT SE 3, H335		
	STOT RE 1, H372		
	Aquatic Acute 1, H400		
	M Acute = 1		
	Aquatic Chronic 1, H410		
	M Chronic = 1		

(Full text of H-phrases: see section 16)

#### Information on ingredients:

[1] Substance for which maximum workplace exposure limits are available.

## **SECTION 4 : FIRST AID MEASURES**

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

## 4.1. Description of first aid measures

### In the event of exposure by inhalation:

Carry the victim to fresh air. Call a doctor.

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#### In the event of splashes or contact with eyes:

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

Regardless of the initial state, refer the patient to an ophthalmologist and show him the label.

#### In the event of splashes or contact with skin:

Remove any soiled or splashed clothing immediately.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

#### In the event of swallowing:

Do not give the patient anything orally.

Seek medical attention immediately, showing the label.

### 4.2. Most important symptoms and effects, both acute and delayed

No data available.

#### 4.3. Indication of any immediate medical attention and special treatment needed

#### Information for the doctor:

N/A

#### SECTION 5: FIREFIGHTING MEASURES

Non-flammable.

### 5.1. Extinguishing media

#### 5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed:

- carbon monoxide (CO)
- carbon dioxide (CO2)

### 5.3. Advice for firefighters

No data available.

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

#### For non first aid worker

Avoid any contact with the skin and eyes.

If a large quantity has been spilt, evacuate all personnel and only allow intervention by trained operators equipped with safety apparatus.

#### For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

### 6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures

Use drums to dispose of collected waste in compliance with current regulations (see section 13).

## 6.3. Methods and material for containment and cleaning up

If the ground is contaminated, once the product has been recovered by sponging with an inert and non-combustible absorbent material, wash the contaminated area in plenty of water.

Clean preferably with a detergent, do not use solvents.

## 6.4. Reference to other sections

No data available.

## SECTION 7: HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

#### 7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

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Remove contaminated clothing and protective equipment before entering eating areas.

Emergency showers and eye wash stations will be required in facilities where the mixture is handled constantly.

### Fire prevention:

Handle in well-ventilated areas.

Prevent access by unauthorised personnel.

# Recommended equipment and procedures:

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Avoid exposure - obtain special instructions before use.

#### Prohibited equipment and procedures:

No smoking, eating or drinking in areas where the mixture is used.

## 7.2. Conditions for safe storage, including any incompatibilities

Store away from incompatible materials.

#### Storage

Keep the container tightly closed in a dry, well-ventilated place.

N/A

#### **Packaging**

Keep strictly in original packaging

#### 7.3. Specific end use(s)

No data available.

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## **8.1.** Control parameters

## Occupational exposure limits:

- European Union (2017/2398, 2017/164, 2009/161, 2006/15/CE, 2000/39/CE, 98/24/CE) :

CAS	VME-mg/m3:	VIVIE-ppm:	VLE-mg/m3:	VLE-ppm:	Notes :
7664-38-2	1	-	2	-	-

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010):

CAS	TWA:	STEL:	Ceiling:	Definition:	Criteria:
7664-38-2	1 mg/m3	3 mg/m3			
7553-56-2	0,01 (IFV)	0,1 (V) ppm		A4	
	ppm				

- Germany - AGW (BAuA - TRGS 900, 29/01/2018) :

CAS	VME:	VME:	Excess	Notes
7664-38-2		2 E mg/m³		2(I)
7553-56-2	0.1 ml/m3	1.1 mg/m3	1(I)	DFG. H

- France (INRS - ED984 :2016):

CAS	VME-ppm:	VME-mg/m3:	VLE-ppm:	VLE-mg/m3:	Notes:	TMP No:	
7664-38-2	0.2	1	0.5	2	-	-	-
7553-56-2	-	-	0.1	1	-	-	

- UK / WEL (Workplace exposure limits, EH40/2005, 2011):

CAS	TWA:	STEL:	Ceiling:	Definition:	Criteria:
7664-38-2	- ppm	- ppm			
	1 mg/m <sup>3</sup>	2 mg/m³			
7553-56-2	- ppm	0,1 ppm			
	- mg/m³	1,1 mg/m <sup>3</sup>			

# 8.2. Exposure controls

# Personal protection measures, such as personal protective equipment

 $Pictogram(s)\ indicating\ the\ obligation\ of\ wearing\ personal\ protective\ equipment\ (PPE):$ 







Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

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Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

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### - Eye / face protection

Avoid contact with eyes.

Before handling, wear safety goggles with protective sides accordance with standard EN166.

When spraying, wear a face shield in accordance with standard EN166.

Prescription glasses are not considered as protection.

Provide eyewash stations in facilities where the product is handled constantly.

#### - Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.

Gloves must be selected according to the application and duration of use at the workstation.

Type of gloves recommended:

- Butyl Rubber (Isobutylene-isoprene copolymer)
- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))

Recommended properties:

N/A

N/A

N/A

## - Body protection

Avoid skin contact.

Wear suitable protective clothing.

Suitable type of protective clothing:

Wear suitable protective clothing and, in particular, an apron and boots. These items of clothing shall be maintained in good condition and cleaned after use.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

# - Respiratory protection

Avoid breathing vapours.

If the ventilation is insufficient, wear appropriate breathing apparatus.

When workers are confronted with concentrations that are above occupational exposure limits, they must wear a suitable, approved, respiratory protection device.

Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387:

- A2 (Brown)
- B2 (Grey)

Particle filter according to standard EN143:

Decomposition point/decomposition range:

- P2 (White)

If using the product by spaying wear appropriate respiratory material

# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

## 9.1. Information on basic physical and chemical properties

#### **General information:**

Physical state: Fluid liquid.

#### Important health, safety and environmental information

pH: 0.90 . Strongly acidic.

Boiling point/boiling range:

Flash point interval:

Vapour pressure (50°C):

Not relevant.

Vanour pressure:

Not relevant.

Not relevant.

Density:

1.05-1.06

Water solubility:

Melting point/melting range:

Not specified.

Self-ignition temperature:

Not specified.

Not specified.

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#### 9.2. Other information

No data available.

## **SECTION 10: STABILITY AND REACTIVITY**

#### 10.1. Reactivity

Mixture which by chemical action can corrode and even destroy metals.

#### 10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

#### 10.3. Possibility of hazardous reactions

No data available.

#### 10.4. Conditions to avoid

Avoid:

- frost

## 10.5. Incompatible materials

Keep away from:

- strong reducing agents
- strong bases
- strong oxidising agents

### 10.6. Hazardous decomposition products

The thermal decomposition may release/form:

- carbon monoxide (CO)
- carbon dioxide (CO2)

# **SECTION 11: TOXICOLOGICAL INFORMATION**

### 11.1. Information on toxicological effects

May cause irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis, following exposure between three minutes and one hour.

Corrosive reactions are typified by ulcers, bleeding, bloody scabs, and, by the end of observation at 14 days, by discolouration due to blanching of the skin, complete areas of alopecia, and scars.

May be corrosive to the respiratory tract

May cause severe damage to organs in the event of repeated or prolonged exposure.

#### 11.1.1. Substances

# Acute toxicity:

IODINE (CAS: 7553-56-2)

Oral route : LD50 = 315 mg/kg

Species: Rat

Dermal route : LD50 = 1425 mg/kg

Species: Rabbit

Inhalation route (Dusts/mist): LC50 = 4.588 mg/l

Duration of exposure : 4 h

PHOSPHORIC ACID ...% (CAS: 7664-38-2)

Oral route : LD50 = 3500 mg/kg

Species: Rat

 $Dermal\ route: \qquad \qquad LD50 = 1689\ mg/kg$ 

Skin corrosion/skin irritation:

IODINE (CAS: 7553-56-2)

Irritation: Causes skin irritation.

 $2.3 \le$  Average score  $\le 4.0$ 

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Serious damage to eyes/eye irritation:

IODINE (CAS: 7553-56-2) Conjunctival redness :

Average score >= 2.5 and effects totally reversible within 21 days of observation

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### Specific target organ systemic toxicity - repeated exposure :

N/A

#### 11.1.2. Mixture

#### Skin corrosion/skin irritation:

The 'corrosive' classification is based on the low/high pH which has been confirmed by tests.

## **SECTION 12: ECOLOGICAL INFORMATION**

Harmful to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

#### 12.1. Toxicity

#### 12.1.1. Substances

FATTY ALCOHOL ETHOXYLATED (CAS: 68439-50-9)

Fish toxicity: 0.1 < NOEC <= 1 mg/l

IODINE (CAS: 7553-56-2)

Fish toxicity: LC50 = 1.67 mg/l

Duration of exposure: 96 h

Crustacean toxicity: EC50 = 0.55 mg/l

Duration of exposure: 48 h

0.01 < ECx <= 0.1 mg/l

Factor M = 1

Algae toxicity: ECr50 = 0.13 mg/l

Duration of exposure: 72 h

PHOSPHORIC ACID ...% (CAS: 7664-38-2)

Fish toxicity: LC50 > 100 mg/l

Crustacean toxicity: EC50 = 29 mg/l

Species: Daphnia magna

Algae toxicity : ECr50 > 100 mg/l

Species: Dictosphaerium pulchellum

NOEC > 100 mg/l

Species: Desmodesmus subspicatus

# **12.1.2. Mixtures**

No aquatic toxicity data available for the mixture.

# 12.2. Persistence and degradability

### 12.2.1. Substances

FATTY ALCOHOL ETHOXYLATED (CAS: 68439-50-9)

Biodegradability: Rapidly degradable.

### 12.3. Bioaccumulative potential

No data available.

# 12.4. Mobility in soil

No data available.

## 12.5. Results of PBT and vPvB assessment

No data available.

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#### 12.6. Other adverse effects

No data available.

### **SECTION 13: DISPOSAL CONSIDERATIONS**

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

#### 13.1. Waste treatment methods

Do not pour into drains or waterways.

#### Waste:

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

## Soiled packaging:

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

#### Codes of wastes (Decision 2014/955/EC, Directive 2008/98/EEC on hazardous waste):

16 05 08 \* discarded organic chemicals consisting of or containing dangerous substances

#### **SECTION 14: TRANSPORT INFORMATION**

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2017 - IMDG 2016 - ICAO/IATA 2017).

#### 14.1. UN number

1903

# 14.2. UN proper shipping name

UN1903=DISINFECTANT, LIQUID, CORROSIVE, N.O.S.

(phosphoric acid ...%, iodine)

## 14.3. Transport hazard class(es)

- Classification:



8

# 14.4. Packing group

Ш

## 14.5. Environmental hazards

-

## 14.6. Special precautions for user

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	8	C9	III	8	80	5 L	274	E1	3	Е

IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ
	8	-	III	5 L	F-A,S-B	223 274	E1

IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ
	8	-	III	852	5 L	856	60 L	A3	E1
								A803	
	8	-	III	Y841	1 L	-	-	A3	E1
								A803	

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

## 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available.

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#### **SECTION 15: REGULATORY INFORMATION**

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

- Classification and labelling information included in section 2:

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2018/669 (ATP 11)

#### - Container information:

No data available.

#### - Particular provisions :

No data available.

- Labelling for biocidal products (Regulation 1896/2000, 1687/2002, 2032/2003, 1048/2005, 1849/2006, 1451/2007 and Directive 98/8/EC)

Name	CAS	%	Product-type
IODINE	7553-56-2	10.00 g/kg	03
			04

Product-type 3 : Veterinary hygiene. Product-type 4 : Food and feed area.

### 15.2. Chemical safety assessment

No data available.

#### **SECTION 16: OTHER INFORMATION**

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

# Wording of the phrases mentioned in section $\bf 3$ :

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H372	Causes damage to organs through prolonged or repeated exposure .
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

## **Abbreviations:**

ADR: European agreement concerning the international carriage of dangerous goods by Road.

IMDG: International Maritime Dangerous Goods. IATA: International Air Transport Association. ICAO: International Civil Aviation Organisation

RID: Regulations concerning the International carriage of Dangerous goods by rail.

GHS05 : Corrosion GHS08 : Health hazard

PBT: Persistent, bioaccumulable and toxic. vPvB: Very persistent, very bioaccumulable. SVHC: Substances of very high concern.