

## **SECTION 1. Identification of the substance/mixture and of the company/undertaking**

### **1.1. Product identifier**

Product code : Ipoclorito di Sodio 14-15%  
Trades code : A30-005  
Product line: Tintolav

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

Chlorine-based bleach  
Sectors of use:  
Industrial Manufacturing[SU3], Public domain (administration, education, entertainment, services, craftsmen)[SU22]

Uses advised against  
Do not use for purposes other than those listed

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

Tintolav s.r.l. - Via M. D' Antona 7 - 10028 Trofarello (TO) Tel. 011/649.68.27 Fax 011/649.67.42

Email: [info@tintolav.com](mailto:info@tintolav.com) - Sito internet: [www.tintolav.com](http://www.tintolav.com)

Email tecnico competente: [a.conedera@tintolav.com](mailto:a.conedera@tintolav.com)

National contact: Malta: Emergency Ambulance 112  
Accident & Emergency Department 2545 4030

### **1.4. Emergency telephone number**

The UK National Poisons Emergency number +44 (0)870 600 6266  
London: Emergency 24 hour telephone +44 (0) 207188 0100

## **SECTION 2. Hazards identification**

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

2.1.1 Classification according to Regulation (EC) No 1272/2008:

Pictograms:  
GHS05, GHS09

Hazard Class and Category Code(s):  
Met. Corr. 1, Skin Corr. 1B, Aquatic Acute 1, Aquatic Chronic 2

Hazard statement Code(s):  
H290 - May be corrosive to metals.  
H314 - Causes severe skin burns and eye damage.  
H400 - Very toxic to aquatic life. (1)  
H411 - Toxic to aquatic life with long lasting effects.

The product can be corrosive to metals  
Corrosive product: causes severe skin burns and eye damage.  
The product is dangerous for the environment as it is very toxic to aquatic organisms  
The product is dangerous to the environment as it is toxic to aquatic life with long lasting effects

## 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008:

Pictogram, Signal Word Code(s):  
GHS05, GHS09 - Danger



Hazard statement Code(s):  
H290 - May be corrosive to metals.  
H314 - Causes severe skin burns and eye damage.  
H410 - Very toxic to aquatic life with long lasting effects.

Supplemental Hazard statement Code(s):  
EUH031 - Contact with acids liberates toxic gas.

Precautionary statements:

Prevention

- P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
- P264 - Wash your hand thoroughly after handling.
- P273 - Avoid release to the environment.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Response

- P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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.
- P310 - Immediately call a POISON CENTER/doctor/physician
- P391 - Collect spillage.

Disposal

- P501 - Dispose of contents / container in accordance with local and national regulations.

Contains:

Sodium Hypochlorite

Contains (Reg.EC 648/2004):

15% < 30% chlorine-based bleaching agents

For professional use only

## 2.3. Other hazards

The substance / mixture NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

No information on other hazards

## SECTION 3. Composition/information on ingredients

### 3.1 Substances

Irrilevant

### 3.2 Mixtures

Refer to paragraph 16 for full text of hazard statements

Note B - Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this

case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

Substance	Concentration[ w/w]	Classification	Index	CAS	EINECS	REACH
Sodium Hypochlorite Note: B	>= 15 < 25%	EUH031; Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Limits: , EUH031 %C >=5; 10	017-011-00-1	7681-52-9	231-668-3	01-2119488 154-34

## SECTION 4. First aid measures

### 4.1. Description of first aid measures

Inhalation:

Air the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated area. If you feel unwell seek medical advice.

Direct contact with skin (of the pure product):

Take contaminated clothing Immediately off.

In case of contact with skin, wash immediately and abundantly with soap and water.

Consult a physician immediately

Direct contact with eyes (of the pure product):

Wash immediately and thoroughly with running water, keeping eyelids open for at least 10 minutes, then protect your eyes with a dry sterile gauze. Seek medical advice immediately

Do not use eye drops or ointments of any kind before the examination or advice from an oculist.

Ingestion:

Drink water with egg white; do not give bicarbonate.

Absolutely do not induce vomiting or emesis. Seek medical advice immediately.

### 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

Immediately call a POISON CENTER/doctor/physician

## SECTION 5. Firefighting measures

### 5.1. Extinguishing media

Advised extinguishing agents:

Water spray, CO2, foam, dry chemical, depending on the materials involved in the fire.

Extinguishing means to avoid:

Water jets. Use water jets only to cool the surfaces of the containers exposed to fire.

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

No data available.

## **5.3. Advice for firefighters**

Use protection for the breathing apparatus  
Safety helmet and full protective suit.

The spray water can be used to protect the people involved in the extinction

You may also use selfrespirator, especially when working in confined and poorly ventilated area and if you use halogenated extinguishers (Halon 1211 fluobrene, Solkan 123, NAF, etc...)

Keep containers cool with water spray

## **SECTION 6. Accidental release measures**

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

6.1.1 For non-emergency personnel:

Leave the area surrounding the spill or release. Do not smoke

Wear mask, gloves and protective clothing.

6.1.2 For emergency responders:

Wear a mask, gloves and protective clothing.

Eliminate all open flames and possible sources of ignition. Not smoking.

Provide adequate ventilation.

Evacuate the danger area and, if necessary, consult an expert.

### **6.2. Environmental precautions**

Contain spill with earth or sand.

If the product has entered a watercourse in sewers or has contaminated soil or vegetation, notify it to the authorities.

Discharge the remains in compliance with the regulations

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

6.3.1 For containment:

Rapidly recover the product, wear a mask and protective clothing

Recover the product for reuse, if possible, or for removal. Possibly absorb it with inert material.

Prevent it from entering the sewer system.

6.3.2 For cleaning up:

To clean the floor and all objects contaminated by this material use absorbent powder or absorbent material compatible with hypochlorites

After wiping up, wash with water the area and materials involved

6.3.3 Other information:

use absorbent powder or absorbent material compatible with hypochlorites

### **6.4. Reference to other sections**

Refer to paragraphs 8 and 13 for more information

## **SECTION 7. Handling and storage**

### 7.1. Precautions for safe handling

Avoid contact and inhalation of vapors  
Wear protective gloves/protective clothing/eye protection/face protection.  
In residential areas do not use on large surfaces.  
At work do not eat or drink.  
See also paragraph 8 below.

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

Keep in original container closed tightly. Do not store in open or unlabeled containers.  
Keep containers upright and safe by avoiding the possibility of falls or collisions.  
Store in a cool place, away from sources of heat and direct exposure of sunlight.

### 7.3. Specific end use(s)

Industrial Manufacturing:  
Handle with extreme caution.  
Store in a well ventilated place away from heat sources.

Public domain (administration, education, entertainment, services, craftsmen):  
Handle with care. Store in a ventilated area and away from heat, keep the container tightly closed.

## SECTION 8. Exposure controls/personal protection

### 8.1. Control parameters

Related to contained substances:

Sodium Hypochlorite:  
Acute hazards/symptoms INHALATION cough. Sore throat.  
SKIN Redness. Pain.  
EYE Redness. Pain.  
SWALLOWED, abdominal pain. Burning sensation. Cough. Diarrhea. Sore throat. Vomiting.

Specification: DNEL (EC): short term systemic effects Inhalation Value Workers: 3.1 mg/m<sup>3</sup>  
Specification: DNEL (EC) parameter: local effects short term Inhalation Value Workers: 3.1 mg/m<sup>3</sup>  
Specification: DNEL (EC) parameter: long term systemic effects Inhalation Workers value: 1.55 mg/m<sup>3</sup>  
Specification: DNEL (EC): Short local effects Parameter termine Inhalation Value Population: 3.1 mg/m<sup>3</sup>  
Specification: DNEL (EC) parameter: long term systemic effects Inhalation Population value: 1.55 mg/m<sup>3</sup> specification:  
DNEL (EC) parameter: oral value: 0.26 mg/kg specification: PNEC STP (EC): value of 0.03 mg/l specification: PNEC  
(EC): intermittent Emission Parameter value: 0.26 Ng/l  
Specification: PNEC (EC): Parameter Value Oral: 11.1 mg/kg  
Specification: PNEC (EC): freshwater Parameter value: 0.21 Ng/l specification: PNEC (EC): seawater Parameter value:  
0.042 Ng/l

- Substance: Sodium Hypochlorite  
DNEL  
Systemic effects Long term Workers inhalation = 1,55 (mg/m<sup>3</sup>)  
Systemic effects Long term Consumers inhalation = 1,55 (mg/m<sup>3</sup>)  
Systemic effects Short term Workers inhalation = 3,1 (mg/m<sup>3</sup>)  
Systemic effects Short term Consumers oral = 0,26 (mg/kg bw/day)  
Local effects Long term Workers inhalation = 1,55 (mg/m<sup>3</sup>)  
Local effects Short term Workers inhalation = 3,1 (mg/m<sup>3</sup>)  
Local effects Short term Consumers inhalation = 3,1 (mg/m<sup>3</sup>)  
PNEC  
Sweet water = 0,00021 (mg/l)  
sediment Sweet water = 0,21 (mg/kg/sediment)  
Sea water = 0,000042 (mg/l)  
intermittent emissions = 0,00026 (mg/l)  
STP = 0,03 (mg/l)

**8.2. Exposure controls**



Appropriate engineering controls:  
Wear goggles and mask.

Industrial Manufacturing:  
No specific monitoring foreseen

Public domain (administration, education, entertainment, services, craftsmen):  
No specific monitoring foreseen

Individual protection measures:

(a) Eye / face protection  
Wear goggles and mask

(b) Skin protection

(i) Hand protection  
Manipulate with gloves. The gloves should be checked before being used. Use a technique suitable for the removal of gloves (without touching the outside of the glove) to avoid skin contact with this product dispose of contaminated gloves after use in accordance with the legislation and good laboratory practices. Wash and dry your hands. Selected protective gloves shall comply with the requirements of EU Directive 89/686/EEC and EN 374 standards arising therefrom.

Full contact  
Material: nitrile rubber  
minimum thickness: 0.11 mm  
permeation time: 480 min

(ii) Other  
When handling the pure product wear full protective skin clothing.

(c) Respiratory protection  
Use adequate protective respiratory equipment (EN 14387:2008)

(d) Thermal hazards  
No hazard to report

Environmental exposure controls:  
Use according to good working practices to avoid pollution into the environment.

**SECTION 9. Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Physical and chemical properties	Value	Determination method
Appearance	Liquid	
Colour	straw yellow	

Physical and chemical properties	Value	Determination method
Odour	characteristic	
Odour threshold	not determined	
pH	12-14	
Melting point/freezing point	-20 °C	
Initial boiling point and boiling range	> 100 °C	
Flash point	> 60 °C	ASTM D92
Evaporation rate	irrelevant	
Flammability (solid, gas)	irrelevant	
Upper/lower flammability or explosive limits	not determined	
Vapour pressure	17,4 - 20 hPa @ 20 °C	
Vapour density	not determined	
Relative density	1.15 130 gr/cm <sup>3</sup>	
Solubility	Completely soluble in water	
Water solubility	293 gr/l	
Partition coefficient: n-octanol/water	-3,420	
Auto-ignition temperature	not determined	
Decomposition temperature	not determined	
Viscosity	6,2 - 6,6 mPa.s	
Explosive properties	not explosive	
Oxidising properties	non-oxidizing	

## 9.2. Other information

Content of VOC ready to use condition: 0,00 %

## SECTION 10. Stability and reactivity

### 10.1. Reactivity

No reactivity hazards

### 10.2. Chemical stability

No hazardous reaction when handled and stored according to provisions.

### 10.3. Possibility of hazardous reactions

There are no hazardous reactions

### 10.4. Conditions to avoid

Related to contained substances:  
Sodium Hypochlorite:  
Exposure to light and heating. Open container.

### 10.5. Incompatible materials

It can generate toxic gases to contact with acids, amide, aliphatic and aromatic amines, carbamate, halogenated substances, isocyanetic, organic sulfide, nitrile, organic phosphates, inorganic sulfide, polymerizable compounds.  
It can be easy ignite in contact with other substances.

### 10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

## SECTION 11. Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

ATE(mix) oral = ∞  
ATE(mix) dermal = ∞  
ATE(mix) inhal = ∞

- (a) acute toxicity: based on available data, the classification criteria are not met.
- (b) skin corrosion/irritation: Corrosive product: causes severe skin burns and eye damage.
- (c) serious eye damage/irritation: Corrosive product: causes severe skin burns and eye damage.
- (d) respiratory or skin sensitisation: based on available data, the classification criteria are not met.
- (e) germ cell mutagenicity: based on available data, the classification criteria are not met.
- (f) carcinogenicity: based on available data, the classification criteria are not met.
- (g) reproductive toxicity: based on available data, the classification criteria are not met.
- (h) specific target organ toxicity (STOT) single exposure: based on available data, the classification criteria are not met.
- (i) specific target organ toxicity (STOT) repeated exposure based on available data, the classification criteria are not met.
- (j) aspiration hazard: based on available data, the classification criteria are not met.

Related to contained substances:

Sodium Hypochlorite:

Inhalation : This substance is irritating and corrosive by inhalation. Atmospheric concentrations in excess of the occupational exposure limit for chlorine may lead to immediate and severe irritation of the upper respiratory airways, intense coughing, choking and bronchospasm.

Skin contact: Contact with liquid sodium hypochlorite may cause burns. Repeated skin contact may cause dermatitis.

Eye contact: Direct eye contact can cause redness, blurred vision and pain. Repeated and prolonged exposure can cause permanent damage to eyes.

Ingestion: Ingestion will cause corrosion of and damage to the gastrointestinal tract.

Toxicological information: Cytogenic analysis reported human lymphocyte mutation data at an exposure level of 100ppm sodium hypochlorite over a 24-hour period.

Routes of exposure: the substance can be absorbed into the body by inhalation of its aerosol e per ingestione.

INHALATION RISK: can not be given any indication about the speed with which it reaches a harmful contamination in the air due to evaporation of the substance at 20 C.

Effects of short-term exposure: the substance is irritating to the eyes, skin and respiratory tract effects of REPEATED EXPOSURE or long-term repeated or prolonged contact may cause skin sensitization.

Acute hazards/symptoms INHALATION cough. Sore throat.

SKIN Redness. Pain.

EYE Redness. Pain.

SWALLOWED, abdominal pain. Burning sensation. Cough. Diarrhea. Sore throat. Vomiting.

Specification: LC50 Inhalation route of Administration: test Species: Rat (female): Value > 10.5 mg/l For. test: 1:00

Specification: LD50 Via oral administration: test Species: Rat (male): Value > 1100 mg/kg specification: LD50 Dermal intake: test Species: rabbit value:> 20000 mg/kg

LD50 (rat) Oral (mg/kg body weight) = 5000

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 10000

CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 10,5

### 11.2. Information on other hazards

No data available.

## SECTION 12. Ecological information

### 12.1. Toxicity

Related to contained substances:

Sodium Hypochlorite:

Environmental fate: Sodium hypochlorite is miscible with water and runoff from fire-control water or dilution water can cause pollution.

Toxicity and biodegradability: This substance is toxic to aquatic organisms and fish. The product decomposes quickly in soil and water and has low potential for bio-accumulation.

Persistence and degradation: The product degrades easily and will not persist in the environment. However, residual sodium does not degrade and will persist in the environment.

Effect on effluent treatment: A biological treatment process substantially removes the product. There is evidence of inhibition to the aerobic treatment process at a concentration of 0.05 mg/l Cl<sub>2</sub>. Inform the management authorities on sewage works if this product enters the sewer.

Toxic to aquatic organisms.

The substance turned out to be highly toxic if applied directly on the leaves of eight species of flowering plants foliage; resulted in necrosis, chlorosis leaf excision and after a single application

Specification: LC50: Myriophyllum spicatum Alga Parametro Value 0.1-0.4 mg/l For. test: 96 h

Specification: Parametro: EC50 Daphnia Daphnia magna = Value 0.01-0.1 mg/l. test: 48 h

Specification: LC50: fish Parametro value = 0.01-0.1 mg/l. test: 96 h

Bacterial toxicity

Specification: EC 50 ca Value. 0.03 mg/l For. test: 7 Days

C(E)L50 (mg/l) = 0,04 10

The product is dangerous for the environment as it is very toxic to aquatic organisms following acute exposure.

The product is dangerous for the environment as it is toxic to aquatic organisms following acute exposure.

Use according to good working practices to avoid pollution into the environment.

### 12.2. Persistence and degradability

Related to contained substances:

Sodium Hypochlorite:

Decompose the light.

Stability increases with decreasing concentration, light, heating and metal contamination.

Decomposed by the action of carbon dioxide of the air.

The anhydrous form.

### 12.3. Bioaccumulative potential

No data available.

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

No PBT/vPvB ingredient is present

### 12.6. Endocrine disrupting properties

No data available.

### 12.7. Other adverse effects

No adverse effects

## SECTION 13. Disposal considerations

### 13.1. Waste treatment methods

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies.

Recover if possible. Send to authorized discharge plants or for incineration under controlled conditions. Operate according to local and National rules in force

## SECTION 14. Transport information

### 14.1. UN number or ID number

ADR/RID/IMDG/ICAO-IATA: 1791



If subject to the following characteristics is ADR exempt:

Combination packagings: per inner packaging 1 L per package 30 Kg

Inner packagings placed in shrink-wrapped or stretch-wrapped trays: per inner packaging 1 L per package 20 Kg

### 14.2. UN proper shipping name

ADR/RID/IMDG: IPOCLORITO IN SOLUZIONE

ADR/RID/IMDG: HYPOCHLORITE SOLUTION

ICAO-IATA: HYPOCHLORITE SOLUTION

### 14.3. Transport hazard class(es)

ADR/RID/IMDG/ICAO-IATA: Class : 8

ADR/RID/IMDG/ICAO-IATA: Label : 8+Ambiente

ADR: Tunnel restriction code : E

ADR/RID/IMDG/ICAO-IATA: Limited quantities : 1 L

IMDG - EmS : F-A, S-B

### 14.4. Packing group

ADR/RID/IMDG/ICAO-IATA: II

### 14.5. Environmental hazards

ADR/RID/ICAO-IATA: Product is environmentally hazardous

IMDG: Marine polluting agent : Yes

#### **14.6. Special precautions for user**

No data available.

#### **14.7. Maritime transport in bulk according to IMO instruments**

It is not intended to carry bulk

### **SECTION 15. Regulatory information**

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

Seveso category:

E1 - ENVIRONMENTAL HAZARDS

REGULATION (EU) No 1357/2014 - waste:

HP8 - Corrosive

HP14 - Ecotoxic

#### **15.2. Chemical safety assessment**

The supplier has made an assessment of chemical safety

### **SECTION 16. Other information**

#### **16.1. Other information**

Points modified compared to previous release: 1.2. Relevant identified uses of the substance or mixture and uses advised against, 2.1. Classification of the substance or mixture, 2.2. Label elements, 2.3. Other hazards, 4.1. Description of first aid measures, 6.1. Personal precautions, protective equipment and emergency procedures, 6.3. Methods and material for containment and cleaning up, 7.3. Specific end use(s), 8.1. Control parameters, 8.2. Exposure controls, 10.4. Conditions to avoid, 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008, 12.1. Toxicity, 12.5. Results of PBT and vPvB assessment, 12.6. Endocrine disrupting properties, 14.1. UN number or ID number, 14.3. Transport hazard class(es)

Description of the hazard statements exposed to point 3

H314 = Causes severe skin burns and eye damage.

H318 = Causes serious eye damage.

H400 = Very toxic to aquatic life.

H410 = Very toxic to aquatic life with long lasting effects.

Classification based on data of all mixture components

Main normative references:

Directive 1999/45/EC

Directive 2001/60/EC

Regulation 1272/2008/EC

Regulation 2010/453/EC

\*\* The information contained herein is based on our knowledge at the date above.

Related solely to the product and do not constitute a guarantee of a particular quality.

It is the duty of the user to ensure that these are appropriate and complete information regarding the specific use intended.

This data sheet cancels and replaces any previous edition.