

**SECTION 1. Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product code : D2 - Ruggine  
Trades code : A15-040  
Product line: Tintolav

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

Stain remover for rust stains, oxidation and pigments

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**

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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

Hazard Class and Category Code(s):  
Skin Corr. 1B

Hazard statement Code(s):  
H314 - Causes severe skin burns and eye damage.

Corrosive product: causes severe skin burns and eye damage.

**2.2. Label elements**

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

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

Hazard statement Code(s):  
H314 - Causes severe skin burns and eye damage.



Supplemental Hazard statement Code(s):  
not applicable

Precautionary statements:

Prevention

P260 - Do not breathe vapours.

P264 - Wash your hand thoroughly after handling.

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

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].

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

Disposal

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

Contains:

phosphoric acid ... %

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

### 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	Classification	Index	CAS	EINECS	REACH
phosphoric acid ... % Note: B	> 30 <= 50%	Skin Corr. 1B, H314	015-011-00-6	7664-38-2	231-633-2	01-2119485 924-24

## 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 with water and 5% sodium bicarbonate solution

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, CO<sub>2</sub>, 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 mask, gloves and protective clothing.

Eliminate all unguarded flames and possible sources of ignition. No smoking.

Provision of sufficient ventilation.

Evacuate the danger area and, in case, 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:

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

6.3.3 Other information:

None in particular.

## **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:

phosphoric acid ... %:

TLV: 1 mg/m<sup>3</sup> TWA mg/m<sup>3</sup> as STEL (ACGIH 2004).

Dim MAK (inhalable fraction) 2 mg/m<sup>3</sup> peak limitation Category: I (2); Risk group for pregnancy: C; (DFG 2005).

EU OEL: 1 mg/m<sup>3</sup> (8:0), 2 mg/m<sup>3</sup> (brief.)

### 8.2. Exposure controls

Appropriate engineering controls:  
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 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

Also use PVC or Chlorurated Polyethylen gloves.

(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	colorless liquid	
Odour	characteristic	
Odour threshold	not determined	
pH	1-2	

Physical and chemical properties	Value	Determination method
Melting point/freezing point	not determined	
Initial boiling point and boiling range	> 110 °C	
Flash point	nonflammable	ASTM D92
Evaporation rate	irrelevant	
Flammability (solid, gas)	nonflammable	
Upper/lower flammability or explosive limits	not determined	
Vapour pressure	not determined	
Vapour density	not determined	
Relative density	1,300 - 1,400 g/cm3	
Solubility	soluble in water	
Water solubility	soluble in water	
Partition coefficient: n-octanol/water	not determined	
Auto-ignition temperature	not determined	
Decomposition temperature	not determined	
Viscosity	not determined	
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**

Nothing to report

**10.5. Incompatible materials**

It can generate flammable gases in contact with dithiocarbamates, mercaptans and other organic sulfides, primary metals, strong reducing agents.

It can generate toxic gases to contact with inorganic fluoride, halogenated organic substances, sulfide, nitrides, nitrile, organophosphate, strong oxidants agents.

It can ignite in contact with ditiocarbamate, elementary metals, nitrides.

**10.6. Hazardous decomposition products**

Does not decompose when used for intended uses.

**SECTION 11. Toxicological information****11.1. Information on toxicological effects**

ATE(mix) oral =  $\infty$

ATE(mix) dermal =  $\infty$

ATE(mix) inhal =  $\infty$

(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.

phosphoric acid ... %: Strongly corrosive to the skin and mucous membranes

(c) serious eye damage/irritation: Corrosive product: causes severe skin burns and eye damage.

phosphoric acid ... %: strongly corrosive.

phosphoric acid ... %: strongly corrosive.

(d) respiratory or skin sensitization: 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:

phosphoric acid ... %:

ROUTES of EXPOSURE: the substance can be absorbed into the body by inhalation of its aerosol and by ingestion.

INHALATION RISK: A dangerous air contamination will not be reached at all or I said very slowly due to evaporation of the substance at 20 C.

Effects of short-term exposure: the substance is corrosive to the eyes, skin and respiratory tract. Corrosive if swallowed.

ACUTE HAZARDS/SYMPTOMS:

Inhalation: burning sensation. Cough. Shortness of breath. Sore throat.

: SKIN Redness. Pain. Skin burns. Blisters.

EYES: Pain. Redness. Severe deep burns.

Ingestion: abdominal pain. Burning sensation. Shock or collapse.

LD50 (rat) Oral (mg/kg body weight) = 2600

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 2740

**SECTION 12. Ecological information****12.1. Toxicity**

Related to contained substances:

phosphoric acid ... %:

Effects on the environment: acid, nutrient of algae undesirable.

ECOTOXICITY': TLM Gambusias 138 mg/l 24/26 hours in cloudy water 22-24

Persistence: while the acid it can be countered through the natural hardness of water, phosphate may persist indefinitely.

Bioaccumulative potential: nil.

Specification:

EC50 (PHOSPHORIC ACID; CAS No.: 7664-38-2)

Parameter: Alga

Desmodesmus subspicatus

> Value 100 mg/l

For. test: 72 h

Specification: EC50 (PHOSPHORIC ACID; CAS No.: 7664-38-2)

Parametro: Daphnia

Daphnia magna

> Value 100 mg/l

For. test: 48 h

Specification: LC50 (PHOSPHORIC ACID; CAS No.: 7664-38-2)

Parametro: Fish

Oryzias latipes

Value = 75.1 mg/l

For. test: 96 h

C(E)L50 (mg/l) = 75,099998

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

#### **12.2. Persistence and degradability**

No data available.

#### **12.3. Bioaccumulative potential**

No data available.

#### **12.4. Mobility in soil**

No data available.

#### **12.5. Results of PBT and vPvB assessment**

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

#### **12.6. 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**

ADR/RID/IMDG/ICAO-IATA: 1805

ADR exemption because compliance with the following characteristics:





Combination packagings: per inner packaging 5 L per package 30 Kg

Inner packagings placed in shrink-wrapped or stretch-wrapped trays: per inner packaging 5 L per package 20 Kg

#### **14.2. UN proper shipping name**

ADR/RID/IMDG: ACIDO FOSFORICO IN SOLUZIONE

ADR/RID/IMDG: PHOSPHORIC ACID, SOLUTION

ICAO-IATA: PHOSPHORIC ACID, SOLUTION

#### **14.3. Transport hazard class(es)**

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

ADR/RID/IMDG/ICAO-IATA: Label : Limited quantities

ADR: Tunnel restriction code : E

ADR/RID/IMDG/ICAO-IATA: Limited quantities : 5 L

IMDG - EmS : F-A, S-B

#### **14.4. Packing group**

ADR/RID/IMDG/ICAO-IATA: III

#### **14.5. Environmental hazards**

ADR/RID/ICAO-IATA: Product is not environmentally hazardous

IMDG: Marine polluting agent : Not

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

No data available.

#### **14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

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**

REGULATION (EU) No 1357/2014 - waste:

HP8 - Corrosive

#### **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, 2.2. Label elements, 2.3. Other hazards, 3.2 Mixtures, 4.1. Description of first aid measures, 4.3. Indication of any immediate medical attention and special treatment needed, 7.1. Precautions for safe handling, 8.2. Exposure controls, 9.2. Other information, 11.1. Information on toxicological effects, 14.1. UN number, 14.2. UN proper shipping name, 14.3. Transport hazard class(es), 14.4. Packing group, 14.5. Environmental hazards, 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Description of the hazard statements exposed to point 3

H314 = Causes severe skin burns and eye damage.

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.

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