

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

### **1.1. Product identifier**

Product code : Alcapower  
Trades code : A39-045  
Product line: Tintolav

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

Alkaline detergent for washing with water. Wash water Booster

Sectors of use:

Industrial Manufacturing[SU3], Public domain (administration, education, entertainment, services, craftsmen)[SU22]

Uses advised against

Private households (= general public = consumers)[SU21]

### **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

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

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/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:

sodium hydroxide

Contains (Reg.EC 648/2004):

< 5% phosphonates

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

Substance	Concentration	Classification	Index	CAS	EINECS	REACH
sodium hydroxide	> 20 <= 30%	Skin Corr. 1A, H314	011-002-00-6	1310-73-2	215-185-5	

## SECTION 4. First aid measures

### 4.1. Description of first aid measures

Inhalation:

Ventilate the environment. Immediately remove the patient from the contaminated environment and keep it at rest in a well ventilated area. In case of malaise consult a doctor.

Direct contact with the skin (of the pure product):

Remove contaminated clothing immediately.

In case of contact with skin, wash immediately and thoroughly with soap and water several times. Then use a slightly

acidic aqueous solution, such as vinegar, lemon juice or 5% diluted acetic acid to neutralize. After washing, rinse and rinse thoroughly with water.

Consult a doctor immediately.

Direct contact with the eyes (of the pure product):

Wash immediately and abundantly with running water, with open eyelids, for at least 10 minutes; therefore protect the eyes with dry sterile gauze. Immediately call for a medical examination.

Do not use eye drops or ointments of any kind before the visit or advice of the eye doctor.

Ingestion:

Do not induce vomiting or emesis. Immediately contact a POISON CENTER and contact a doctor or ambulance.

#### **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:

sodium hydroxide:

TLV: 2 mg/m<sup>3</sup> (valore Ceiling) (ACGIH 2004).

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) PEL: 2 mg/m<sup>3</sup>

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**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  
Hand protection Chemical resistant gloves Appropriate nitrile material Breakthrough time 480 min Eye protection  
Tightly sealed goggles Physical protection Protective clothing resistant to alkaline solutions

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

(c) Respiratory protection  
Use adequate protective respiratory equipment (EN 141)

(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	Transparent liquid - yellow	
Odour	characteristic	
Odour threshold	not determined	
pH	11-12 sol. 1%	
Melting point/freezing point	< 0 °C	
Initial boiling point and boiling range	not determined	
Flash point	nonflammable	ASTM D92
Evaporation rate	irrelevant	
Flammability (solid, gas)	irrelevant	
Upper/lower flammability or explosive limits	not determined	
Vapour pressure	not determined	
Vapour density	not determined	

Physical and chemical properties	Value	Determination method
Relative density	1,2 - 1,3 g /cm <sup>3</sup>	
Solubility	soluble in water	
Water solubility	completely 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: 0,35 %

## 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 inflammable gases to contact with elementary metals, nitrides, inorganic sulfide, strong reducing agents.

It can generate toxic gases to contact with inorganic sulfide, strong reducing agents.

### 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 = ∞

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 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:

sodium hydroxide:

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

INHALATION RISK: evaporation at 20 C is negligible; a harmful concentration of particles however pu aereodisperse be reached quickly.

Effects Of Short-term Exposure: Corrosive. The substance is verycorrosiva to the eyes, skin and respiratory tract.

Corrosive if swallowed. Aerosol inhalation of the substance can cause pulmonary edema (see notes).

Effects of long-term or repeated: repeated or prolonged Contact with skin may cause dermatitis.

Acute hazards/symptoms INHALATION AS corrosive. Burning sensation. Sore throat. Cough. Respiratory difficulties.

Shortness of breath. Symptoms may be delayed (see notes).

SKIN Corrosive. Redness. Pain. Severe skin burns. Blisters.

Corrosive EYES. Redness. Pain. Blurred vision. Severe deep burns.

SWALLOWING Corrosive. Burning sensation. Abdominal pain. Shock or collapse.

**N O T E** exposure limit value must not be exceeded in any moment of occupational exposure. Symptoms of lung oedema often do not occur before a few hours and are aggravated by physical effort. Are therefore essential rest and medical observation.

Acute oral toxicity LD50:140-340 mg/kg (Rat) Acute dermal toxicity LD50:1.350 mg/kg (rabbit)

LD50 (rat) Oral (mg/kg body weight) = 140

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 1350

## **SECTION 12. Ecological information**

### **12.1. Toxicity**

Related to contained substances:

sodium hydroxide:

This substance can be dangerous for the environment; Special attention must be paid to aquatic organisms.

Use according to good working practices, avoiding release of the product in the environment.

Leuciscus idus melanotus Fish lc100 213mg/L, 48 h, Juhnke et al. (1978), Wasser Abwasser Forsch Z, 11, 161-164

LC50 fish Leuciscus idus melanotus 189mg/L, 48 h, Juhnke et al. (1978), Wasser Abwasser Forsch Z, 11, 161-164

Toxicity Lc50 fish-Gambusia affinis (Buzzacchiotto)-125 mg/l 96-h Lc50-Oncorhynchus mykiss (rainbow trout)-45.4 mg/l

96-h Toxicity to daphnia and other aquatic invertebrates – Daphnia Ec50 Immobilization-40.38 mg/l-48 h

C(E)L50 (mg/l) = 40,380001

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: 1824

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: SODIUM HYDROXIDE SOLUTION

ICAO-IATA: SODIUM HYDROXIDE SOLUTION

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

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

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

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 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**

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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