

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

**1.1. Product identifier**

Product name : OXY A  
Product code: refer to sales department

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

Oxidant  
Sectors of use:  
Industrial Manufacturing[SU3], Manufacture of food products[SU4]  
Product category:  
Washing and Cleaning Products (including solvent based products)  
Process categories:  
Use in batch and other process (syn- thesis) where opportunity for exposure arises[PROC4], Transfer of substance or mixture (charging and discharging) at dedicated facilities[PROC8B]

Not recommended uses  
Do not use for purposes other than those listed

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

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#### 1.4. Emergency telephone number

AEB SpA

Centralino/Switchboard: +39.030.2307.1 - (h 8.30-12.00 13.30-18.00 GMT +1; Lingua/Language: Italiano, English)

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## SECTION 2. Hazards identification

### 2.1. Classification of the substance or mixture

CAS 7722-84-1 CEE 008-003-00-9 EINECS 231-765-0 REACH 01-2119485845-22-XXXX

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

Pictograms:

GHS05, GHS07

Hazard Class and Category Code(s):

Acute Tox. 4, Eye Dam. 1, Aquatic Chronic 3

Hazard statement Code(s):

H302+H332 - Harmful if swallowed or if inhaled

H318 - Causes serious eye damage.

H412 - Harmful to aquatic life with long lasting effects.

Harmful product: do not ingest or inhale

If brought into contact with eyes, the product causes serious damages to eyes, such as an opaque cornea or injury to iris.

The product is dangerous to the environment as it is harmful to aquatic life with long lasting effects

2.1.2 Additional information:

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

### 2.2. Label elements

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

Pictogram, Signal Word Code(s):

GHS05, GHS07 - Danger

Hazard statement Code(s):



H302+H332 - Harmful if swallowed or if inhaled  
H318 - Causes serious eye damage.  
H412 - Harmful to aquatic life with long lasting effects.

Supplemental Hazard statement Code(s):  
not applicable

Precautionary statements:

Prevention

P261 - Avoid breathing vapours/spray.

P280 - Wear eye/face protection.

Response

P301+P312 - IF SWALLOWED: Call a POISON CENTER or a doctor if you feel unwell.

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.

Disposal

P501 - Dispose of contents/container to local/regional/national/international regulations

Contains: Hydrogen peroxide solution 35%

Contains (Reg.EC 648/2004): > 30% oxygen-based bleaching agents

### 2.3. Other hazards

Based on the available data, no PBT or vPvB substances are present in accordance with Regulation (EC) 1907/2006, annex XIII

Based on available data, there are no substances that interfere with the Endocrine System in accordance with Regulation (EU) 2017/2100

The use of this chemical agent implies the obligation of the "risk assessment" by the employer according to the provisions of Legislative Decree April 9, 2008 no. 81 and subsequent amendments. If the results of the risk assessment demonstrate that, in relation to the type, quantity, methods and frequency of exposure, there is only a low risk for the safety and irrelevant for the health of the workers and that the measures referred to in paragraph 1 of Legislative Decree April 9, 2008 no. 81 are sufficient to reduce the risk, the provisions of articles 225, 226, 229, 230 of the same Legislative Decree do not apply

Do not ingest. Keep out of reach of children.

## SECTION 3. Composition/information on ingredients

### 3.1 Substances

Substance	Concentration[ w/w]	Classification	Index	CAS	EINECS	REACH
Hydrogen peroxide	>= 25 < 35%	Ox. Liq. 1, H271; Acute Tox. 4, H302; Skin Corr. 1A, H314; Acute Tox. 4, H332; STOT SE 3, H335; Aquatic Chronic 3, H412 Limits: Skin Corr. 1A,	008-003-00-9	7722-84-1	231-765-0	01-2119485 845-22-XXX X

Substance	Concentration[ w/w]	Classification	Index	CAS	EINECS	REACH
		H314 %C >=70; Skin Corr. 1B, H314 50<= %C <70; Skin Irrit. 2, H315 35<= %C <50; Eye Dam. 1, H318 8<= %C <50; Eye Irrit. 2, H319 5<= %C <8; STOT SE 3, H335 %C >=35; Ox. Liq. 1, H271 %C >=70; Ox. Liq. 2, H272 50<= %C <70;  Acute toxicity M-factor = 1 Chronic toxicity M-factor = 1 ATE oral = 596,0 mg/kg ATE inhal = 11,0 mg/l/4 h				

### 3.2 Mixtures

Irrilevant

## SECTION 4. First aid measures

### 4.1. Description of first aid measures

In case of skin contact: Remove contaminated clothing immediately. Wash immediately with plenty of running water and possibly soap the areas of the body that have come into contact with the product, even if only suspected. Remove contaminated clothing immediately and dispose of it safely.

In case of eye contact: In case of contact with eyes, rinse with water for an adequate period of time and holding the eyelids open, then consult an ophthalmologist immediately. Protect the uninjured eye.

In case of ingestion: DO NOT induce vomiting. Do not give anything to eat or drink. Contact a Poison Control Center immediately and go to the emergency room.

In case of inhalation: If you feel unwell, contact a Poison Control Center immediately and go to the emergency room.

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

Inhalation causes burning sensation, coughing, difficulty breathing and sore throat.

Contact with skin causes redness.

Contact with eyes causes redness, pain, severe deep burns and loss of vision.

If swallowed, causes severe burns to lips, mouth, throat and esophagus, with gastric disturbances and abdominal pain.

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

In case of discomfort following contact with the product, go immediately to the emergency room and, if possible, show this document. ù

Symptomatic treatment.

UFI code on the label

## **SECTION 5. Firefighting measures**

### **5.1. Extinguishing media**

Suitable extinguishing media: Water spray, Carbon dioxide, Dry chemical powder or Alcohol resistant foam. Suitable extinguishing media must be evaluated based on the surrounding environment. Extinguishing media which must not be used for safety reasons: None in particular.

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

Do not inhale the gases produced by the explosion and combustion. Burning produces heavy smoke.

### **5.3. Advice for firefighters**

Use suitable respiratory equipment. Collect contaminated water used to extinguish the fire separately. Do not discharge it into the sewer system. If feasible from a safety perspective, move undamaged containers from the area of immediate danger.

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

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

6.1.1 For non-emergency personnel:

Move away from the area surrounding the spill or release. Not smoking.

6.1.2 For emergency responders:

Eliminate all open flames and possible sources of ignition. Not smoking. Provide adequate ventilation. Evacuate the danger area and, if necessary, consult an expert. Wear personal protective equipment.

### **6.2. Environmental precautions**

Contain spills with earth or sand.

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

Dispose of the waste material in compliance with the regulations

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

6.3.1 Containment:

Rapidly recover the product, wear a mask and protective clothing (for specifications refer to section 8.2. SDS)

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

Prevent it from entering the sewer system.

6.3.2 Cleaning up:

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

6.3.3 Other information:  
Wash with plenty of water.

#### 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

Apply legislation on occupational health and safety General recommendations on occupational hygiene: contaminated clothing should be changed before entering eating areas. Wash hands after handling. Do not eat, drink or smoke during use.

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

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

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

Industrial Manufacturing:  
Handle with caution. Store in a well-ventilated place, away from heat sources, in the original tightly closed packaging.

Manufacture of food products:  
Handle with caution. Store in a well-ventilated place, away from heat sources, in the original tightly closed packaging.

See the annex exposure scenario.

### SECTION 8. Exposure controls/personal protection

#### 8.1. Control parameters

=====  
Related to contained substances:  
Hydrogen peroxide:  
TLV - TWA (Threshold Limit Value - Time Weighted Average) - Eight hours (ppm)/(mg/m<sup>3</sup>)  
Australia: 1/1,4  
Austria: 1/1,4  
Belgium: 1/1,4  
Canada – Ontario: 1/x  
Canada – Québec: 1/1,4  
Denmark: 1/1,4  
Finland: 1/1,4  
France: 1/1,5  
Germany (DFG): 0,5/0,71  
Germany (AGS): 0,5/0,71  
Ireland: 1/1,5  
Norway: 1/1,4  
Poland: x/0,4

People's Republic of China: x/1,5  
Singapore: 1/1,4  
South Africa: 2/x  
South Africa Mining: 1/1,5  
South Korea: 1/x  
Spain: 1/1,4  
Sweden: 1/1,4  
Switzerland: 1/1,4  
USA – NIOSH: 1/1,4  
USA – OSHA: 1/1,4  
United Kingdom: 1/1,4

TLV-STEL Threshold limit value – short-term exposure limit (ppm)/(mg/m<sup>3</sup>)

Austria: 2(1)/2,8(1) Remarks: (1) Ceiling limit value (5minutes)  
Denmark: 2/2,8  
Finland: 3(1)/4,2(1) Remarks: (1) 15 minutes average value  
Germany (AGS): 0,5(1)/0,71(1) Remarks:(1) 15 minutes average value  
Germany (DFG): 0,5(1)/0,71(1) Remarks:(1) 15 minutes average value  
Ireland: 2(1)/3(1) Remarks: (1) 15 minutes reference period  
Poland: x/0,8(1) Remarks: (1) 15 minutes average value  
South Africa Mining:2(1)/3(1) Remarks: (1) 15 minutes average value  
Sweden: 2(1)/3(1) Remarks: (1) 15 minutes average value  
Switzerland: 2(1)/2,8(1) Remarks: (1) 15 minutes average value  
United Kingdom: 2(1)/2,8(1) Remarks: (1) 15 minutes average value

- Substance: Hydrogen peroxide

DNEL

Local effects Long term Workers inhalation = 1,4 (mg/m<sup>3</sup>)  
Local effects Long term Consumers inhalation = 0,21 (mg/m<sup>3</sup>)  
Local effects Short term Workers inhalation = 3 (mg/m<sup>3</sup>)  
Local effects Short term Consumers inhalation = 1,93 (mg/m<sup>3</sup>)

PNEC

Sweet water = 0,013 (mg/l)  
sediment Sweet water = 0,047 (mg/kg/sediment)  
Sea water = 0,013 (mg/l)  
sediment Sea water = 0,047 (mg/kg/sediment)  
STP = 4,66 (mg/l)  
ground = 0,002 (mg/kg ground)

## 8.2. Exposure controls

Appropriate engineering controls:

Industrial Manufacturing:

No specific monitoring foreseen (act according to good practice and specific rules for the type of risk associated)

Manufacture of food products:

No specific monitoring foreseen (act according to good practice and specific rules for the type of risk associated)

8.2.2 Individual protection measures:

(a) Eye / face protection

Safety glasses with side protection for chemicals (EN166).

Face mask CEN: EN136

(b) Skin protection

(i) Hand protection

When handling the pure product, use chemical-resistant protective gloves (EN 374-1/EN374-2/EN374-3) or other protective equipment as instructed by the employer

Suitable gloves:

Butyl rubber: breakthrough time > 8h; glove thickness: 0.7 mm

Natural rubber: breakthrough time > 8h; glove thickness: 1 mm

Nitrile rubber: breakthrough time > 8h; glove thickness: 0.33 mm

(ii) Other

During work operations according to the instructions of the person in charge (employer, ..) wear protective clothing (generic/anti-acid work clothes, safety shoes or other equipment provided)

(c) Respiratory protection

Not required for normal use.

In case of inadequate ventilation or in case of emergency use of gas and vapour filter mask (EN14387) - ABEK-P3 filter

(d) Thermal hazards

No hazard to report

Environmental exposure controls:

Use according to good working practices and avoid to disperse the product 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
Physical state	Liquid	
Colour	Colorless	
Odour	pungent	
Odour threshold	not determined as considered not relevant for the characterization of the product	
Melting point/freezing point	not determined as considered not relevant for the characterization of the product	
Boiling point or initial boiling point and boiling range	108 ° C	
Flammability	not determined as considered not relevant for the characterization of the product	
Lower and upper explosion limit	not determined as considered not relevant for the characterization of the product	
Flash point	not determined as considered not relevant for the characterization of the product	ASTM D92
Auto-ignition temperature	not determined as considered not relevant for the characterization of the product	

Physical and chemical properties	Value	Determination method
Decomposition temperature	not determined as considered not relevant for the characterization of the product	
pH	1.5-4 (20°C)	
Kinematic viscosity	1,249 mPas 20°C	
Solubility	not determined as considered not relevant for the characterization of the product	
Water solubility	Soluble	
Partition coefficient n-octanol/water (log value)	not determined as considered not relevant for the characterization of the product	
Vapour pressure	not determined as considered not relevant for the characterization of the product	
Density and/or relative density	1,13 ± 0.5 (20°C)	
Relative vapour density	not determined as considered not relevant for the characterization of the product	
Particle characteristics	not determined as considered not relevant for the characterization of the product	

## 9.2. Other information

### 9.2.1 Information with regard to physical hazard classes

Irrilevant

### 9.2.2 Other safety characteristics

Irrilevant

## SECTION 10. Stability and reactivity

### 10.1. Reactivity

Strong oxidizing agent  
Decomposes into water and oxygen  
May cause ignition of combustible materials

### 10.2. Chemical stability

Stable under recommended storage and handling conditions.

### 10.3. Possibility of hazardous reactions

Possible dangerous reaction with reducing agents In the presence of Alkalis. In the presence of combustible materials.  
Heavy metal compounds

#### 10.4. Conditions to avoid

Keep away from heat sources. Unstable to heat or contamination. Release of oxygen gas may cause dangerous pressure.

#### 10.5. Incompatible materials

Reducing agents.  
Alkali.  
Fuel material.  
Heavy metal compounds

#### 10.6. Hazardous decomposition products

Oxygen  
Water  
Steam

## SECTION 11. Toxicological information

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

(a) acute toxicity:

ATE(mix) oral = 1193-1270 mg/kg Harmful product

ATE(mix) dermal = Not classified (no relevant component)

ATE(mix) inhal = 4.29 mg/l (mists, fumes and aerosols): Harmful by inhalation

(b) skin corrosion/irritation: based on the available data, the classification criteria are not met.

(c) serious eye damage/irritation: if brought into contact with the eyes, the product causes serious eye injuries,

(d) respiratory or skin sensitisation: based on the available data, the classification criteria are not met.

(e) germ cell mutagenicity: based on the 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

About components:

(a) acute toxicity:

Hydrogen peroxide:

Ingestion - LD50 rat (mg/kg/24h bw): 1193-1270 (Source: ECHA - Study Report 1996 - Note: 50% water solution - OECD Guideline 401)

Skin contact - LC50 rat /rabbit (mg/kg/24h bw): >2000

Inhalation - LC50 rat (mg/l/4h): > 0.17 mg/l - Duration: 4h - Source: ECHA - Study Report 1990 - Note: 50% water

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solution - OECD Guideline 403 For mists, fumes and aerosols: 4.29 mg/l (point estimate of acute toxicity 1.5 mg/L)

(b) skin corrosion/irritation:

Hydrogen peroxide: Corrosive (Test: Skin corrosive - Route: Skin - Species: Rabbit Yes - Source: ECHA - Study Report 1990 - Note: 50 % water solution - OECD Guideline 404 )

Hydrogen peroxide: Irritant (Test: Skin corrosive - Route: Skin - Species: Rabbit Yes - Source: ECHA - Study Report 1990 - Note: 50 % water solution - OECD Guideline 404)

(c) serious eye damage/irritation:

Hydrogen peroxide: Corrosive (Test: Eye Corrosive - Species: Rabbit Yes - Source: ECHA - Study Report 1985 - Notes: OECD Guideline 405)

Hydrogen peroxide: Irritant (Test: Eye Corrosive - Species: Rabbit Yes - Source: ECHA - Study Report 1985 - Note: OECD Guideline 405)

(d) respiratory or skin sensitisation:

Hydrogen peroxide:

Based on available data, the classification criteria are not met.

Test: Skin sensitization - Species: Guinea pig - Source: ECHA - Study report 1953

(e) germ cell mutagenicity:

Hydrogen peroxide:

test: Mutagenesis - Species: Mouse - Source: ECHA - Study Report 1995 - Note: OECD Guideline 474

(f) carcinogenicity:

Hydrogen peroxide:

Based on available data, the classification criteria are not met.

(g) Reproductive toxicity:

Hydrogen peroxide:

Based on available data, the classification criteria are not met.

(h) specific target organ toxicity (STOT) single exposure:

Hydrogen peroxide:

Toxic by single exposure to the respiratory tract via inhalation

Route: Inhalation - Species: Mouse = 665 mg/m<sup>3</sup> - Source: ECHA - Study Report 2002 - Note: OECD Guideline 412

(i) specific target organ toxicity (STOT) repeated exposure

Hydrogen peroxide:

Based on available data, the classification criteria are not met.

Test: NOEL - Route: Oral - Species: Mouse = 300 ppm - Duration: 90 days - Source: ECHA - Study Report 1997 - Note: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

(j) aspiration hazard:

Hydrogen peroxide:

Not applicable

## 11.2. Information on other hazards

No data available.

### 11.2.1. Endocrine disrupting properties

Based on available data, there are no substances that interfere with the Endocrine System in accordance with Regulation (EU) 2017/2100

## SECTION 12. Ecological information

### 12.1. Toxicity

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Related to contained substances:

Hydrogen peroxide:

Acute toxicity - fish LC50 (mg/l/96h): 16.4 *Phimephales promelas* (Note: HP100% - US EPA, pH: 6.6-7.2)

Acute toxicity - crustaceans EC50 (mg/l/48h): 2.4 *Daphnia pulex* (Shurtleff 1989)

Acute toxicity - algae ErC50 (mg/l/72-96h): not available

Chronic toxicity - fish NOEC (mg/l): No reliable information is available on the long-term toxicity of hydrogen peroxide to fish. However, a long-term toxicity test on fish is not considered necessary.

Chronic toxicity - crustaceans NOEC (mg/l): 0.63 *Daphnia magna*

Chronic toxicity algae NOEC (mg/l): The acute toxicity of hydrogen peroxide to algae was tested in marine and freshwater species according to international guidelines. The study on the marine diatom *Skeletonema costatum* (Knight et al. 1997) is more reliable than that on the green alga *Chlorella vulgaris* (Walzer and Lotz 1991). The reliable study on the marine diatom produced a NOEC value of 0.63 mg/L, based on growth rate inhibition.

Microorganism toxicity: 4.66 mg/L

Acute toxicity M-factor = 1

Chronic toxicity M-factor = 1

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

Use according to good working practices and avoid to disperse the product into the environment.

### 12.2. Persistence and degradability

Aerobic (OECD 209): >99% after 30 min

inherently biodegradable

### 12.3. Bioaccumulative potential

Octanol-water (log Pow) = -1.57

BCF: not available

### 12.4. Mobility in soil

Surface tension: 75.6 mN/m 20° C

log Koc: 0.2

### 12.5. Results of PBT and vPvB assessment

Not available

### 12.6. Endocrine disrupting properties

Based on available data, there are no substances that interfere with the Endocrine System in accordance with Regulation (EU) 2017/2100

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### 12.7. Other adverse effects

Nobody

Regulation (EC) No 2006/907 - 2004/648

The (l) surfactant (s) content (s) in this preparation complies (comply) with (i) the biodegradability criteria as laid down in Regulation CE/648/2004 on detergents. All data are held at the disposal of the competent authorities of Member States and will be provided, at their direct request or at the request of a detergent manufacturer, to those authorities.

## SECTION 13. Disposal considerations

### 13.1. Waste treatment methods

Recover if possible. Send to authorized disposal facilities or to incineration under controlled conditions. Operate according to local and national regulations. Additional information on disposal: Take all necessary measures to avoid waste production as far as possible. Analyze possible methods of upgrading or recycling. Do not discharge into drains or the environment; dispose of waste in an authorized waste collection point. Empty containers and packaging must be disposed of in accordance with local and national legislation in force.

## SECTION 14. Transport information

### 14.1. UN number or ID number

ADR/RID/IMDG/ICAO-IATA: 2014



If subject to the following characteristics is ADR exempt:

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

Inner packaging 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: PEROSSIDO DI IDROGENO IN SOLUZIONE ACQUOSA contenente almeno il 20% ma al massimo il 60% di perossido di idrogeno (stabilizzata se necessario)

ADR/RID/IMDG: HYDROGEN PEROXIDE, AQUEOUS SOLUTION with not less than 20% but not more than 60% hydrogen peroxide (stabilized as necessary)

ICAO-IATA: HYDROGEN PEROXIDE, AQUEOUS SOLUTION with not less than 20% but not more than 60% hydrogen peroxide (stabilized as necessary)

### 14.3. Transport hazard class(es)

ADR/RID/IMDG/ICAO-IATA: Class : 5.1

ADR/RID/IMDG/ICAO-IATA: Label : 5.1 + 8

ADR: Tunnel restriction code : E

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

IMDG - EmS : F-H, S-Q

### 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 : No

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

The transport must be carried out by authorized vehicles for the transport of dangerous goods in accordance with the requirements of the applicable Edition of the agreement A.D.R. and national provisions. The transport must be carried out in the original packaging and in packages that are made from materials resistant to content and not likely to generate with this dangerous reactions. The process of loading and unloading of dangerous goods have received adequate training on the risks presented by prepared and on possible procedures to be taken in the event of emergency situations

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

Transport in bulk is not foreseen

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

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

Restrictions relating to the product or the substances contained (Annex XVII EC Reg. 1907/2006): not applicable  
Substances in Candidate list (art. 59 EC Reg. 1907/2006): the product does not contain SVHC in percentage = a 0.1 %.

Regulation (EU) No 1357/2014 - waste: HP4 - Irritant — skin irritation and eye damage  
Seveso category: n.a.

Regulation (EC) 648/04: see point 2.2  
Regulation (EU) 528/2012: not applicable

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

Chemical safety assessment was carried out:  
Hydrogen peroxide  
Mixture exposure scenarios attached

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

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

Description of hazard statements set out in paragraph 3  
H271 = May cause fire or explosion; strong oxidiser.  
H302 = Harmful if swallowed.  
H314 = Causes severe skin burns and eye damage.  
H332 = Harmful if inhaled.  
H335 = May cause respiratory irritation.  
H412 = Harmful to aquatic life with long lasting effects.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008  
[CLP]:  
H302 - Harmful if swallowed. Classification procedure: Calculation method (Similar mixture)

H318 - Causes serious eye damage. Classification procedure: Calculation method (Similar mixture)  
H332 - Harmful if inhaled. Classification procedure: Calculation method (Similar mixture)  
H412 - Harmful to aquatic life with long lasting effects. Classification procedure: Calculation method

**Main normative references:**

Reg. (CE) n. 1907 del 18/12/06 REACH (Registration, Evaluation and Authorisation of CHemicals) et seq.  
Reg. (CE) 1272/2008 CLP (Classification Labelling and Packaging) et seq.  
Directive 2012/18/EU (on the control of major-accident hazards involving dangerous substances) et seq.

Training required: This document must be submitted to the employer to determine the possible need for appropriate training for workers to ensure protection of human health and the environment.

n.a.: not applicable

n.d.: not available

ADR: Accord européen relative au transport International des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

ATE: Acute Toxicity Estimati

BFC: BioconCentration Factor

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstract Service number

CAP: Centre AntiPoison

CE/EC number EINECS (European Inventory of existing Commercial Substances) e ELINCS (European List of notified Chemical Substances)

CL50/LC50: Lethal Concentration 50

DL50/LD50: Lethal Dose 50

COD: Chemical Oxygen Demand

DNEL: Derived No Effect Level

EC50: half maximal Effective Concentration

ERC: Enviroment Release Classes

EU/UE: European Union

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

IMDG: International Maritime Dangerous Goods code

Kow: Octanol water partition coefficient

NOEC: No Observed Effect Concentration

OEL: Occupational Exposure Limit

PBT: Persistent Bioaccumulative and Toxic

PC: Product Categories

PNEC: Predicted No Effect Concentration

PROC: Process Categories

RID: Règlement concernant le transport International ferroviaire des marchandises dangereuses (Regulations concerning International rail transport of dangerous goods)

STOT: Target Organ Systemic Toxicity

STOT (RE): Repeated Exposure

STOT (SE): Single Exposure

STP: Sewage Treatment Plants

SU: Sector of Use

SVCH: Substance of Very High Concern

TLV: Threshold Limit Value

vPvB: Very Persistent Very Bioaccumulative

**References and Sources:**

- ECHA Registered Substances:

<https://echa.europa.eu/web/guest/information-on-chemicals/registered-substances>

- SDS raw material supplier

- GESTIS International Limit Value: <http://limitvalue.ifa.dguv.de>



IMPROVEMENT THROUGH BIOTECHNOLOGY

## SAFETY DATA SHEET

### OXY A

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In conformity to Regulation (EU) 2020/878

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This msds was made in good faith by technical Office on the basis of the information available at the date of the last revision. The person in charge must regularly inform the employees about the specific risks they encounter when using this substance/product. The information contained here relate only to the substance/the preparation indicated and may not apply if the product is used improperly or in combination with others. Nothing contained herein shall be construed as a guarantee, either express or implied. It is the responsibility of the user to ensure the opportunities and completeness of the information contained herein for their own particular use.

Changes to the previous edition: first issued

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**SUMI****Safe Use of Mixtures Information****AISE\_SUMI\_IS\_4\_2**

Version 1.1, August 2018

***Industrial uses; Automated task; Semi-automated task; Dedicated equipment***

*This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.*

**General description of the process covered**

The SUMI applies to industrial uses where products are used in closed process where opportunity for exposure arises. This Safe Use Information is based on the **AISE\_SWED\_IS\_4\_2**.

**Operational Conditions**

<b>Maximum duration</b>	480 minutes per day.
<b>Range of application / Process conditions</b>	Indoor Use.
	Process carried out at room temperature.
	In case of dilution, tap water at a maximum temperature of 45°C is used.
<b>Air exchange rate</b>	Provide a basic standard of general ventilation (1 to 3 air changes per hour). No LEV required.

**Risk Management Measures**

<b>Measures related to personal protective equipment (PPE), hygiene and health evaluation</b>	Wear suitable gloves. See section 8 of the SDS of this product for specifications.
	 Training of workers in relation to proper use and maintenance of PPEs must be ensured.
<b>Environmental measures</b>	Prevent that undiluted product reaches surface waters.
	<b>If appropriate AISE SPERC 8a.1.a.v2 may apply:</b> wide dispersive use resulting in release to municipal sewage treatment plant.

### Additional good practice advice

<p><b>Don't eat or drink.</b>  <b>Don't smoke.</b>  <b>Don't use in proximity of open flame.</b></p>	
<p><b>Wash hands after use.</b>  <b>Avoid contact with damaged skin.</b>  <b>Do not mix with other products.</b></p>	
<p><b>Spillage instructions</b></p>	<p>Dilute with fresh water and mop up.</p>
<p><b>Hygiene practices</b></p>	<p>Follow the product instructions as specified on the label or in the product information sheet and use good occupational hygiene practices as specified in Section 7 of the product SDS.</p>

### Additional information depending on product composition

The label and (when required) the Safety Data Sheet contain additional, product specific information crucial for working safely with mixtures. Please refer to the product label and SDS for information including, but not limited to: product hazard classification, potentially allergenic fragrances, notable ingredients and threshold limit values (when available).

### Disclaimer

*This is a document for communicating generic conditions of safe use of a product. It is the responsibility of the formulator to link this SUMI to the SDS of a specific product that he is selling.*

*If a SUMI (or associated SWED) code is mentioned in the SDS of a product, the formulator of that product declares that all substances in the mixture are present in such concentration, that the use of the product within the conditions of the SUMI is safe. When available, this safe use is ensured by evaluating the results of the chemical safety assessments as performed by the raw material suppliers. When no chemical safety assessment has been carried out by the supplier for an ingredient that contributes to the classification of the mixture, the formulator has performed a safety assessment himself.*

*Following Occupational Health legislation, the employer of workers that use products that are assessed as safe following SUMI conditions remains responsible for communicating relevant use information to employees. When developing workplace instructions for employees, SUMI Sheets should always be considered in combination with the SDS and the label of the product.*

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**SUMI****Safe Use of Mixtures Information****AISE\_SUMI\_IS\_8b\_1***Version 1.1, August 2018****Transfer and dilution of concentrated product by using dedicated dosing system***

*This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.*

**General description of the process covered**

This SUMI applies to industrial uses where products are transferred to or diluted in a dedicated dosing system. This Safe Use Information is based on the **AISE\_SWED\_IS\_8b\_1\_L** and **AISE\_SWED\_IS\_8b\_1\_S**

**Operational Conditions**

<b>Maximum duration</b>	60 minutes per day.
<b>Range of application / Process conditions</b>	Indoor Use.
	Process carried out at room temperature.
	In case of dilution, tap water at a maximum temperature of 45°C is used.
<b>Air exchange rate</b>	Provide a basic standard of general ventilation (1 to 3 air changes per hour). No LEV required.

**Risk Management Measures**

<b>Measures related to personal protective equipment (PPE), hygiene and health evaluation</b>	Wear suitable gloves. See section 8 of the SDS of this product for specifications.
	 Training of workers in relation to proper use and maintenance of PPEs must be ensured.
<b>Environmental measures</b>	Prevent that undiluted product reaches surface waters.
	<b>If appropriate AISE SPERC 8a.1.a.v2 may apply:</b> wide dispersive use resulting in release to municipal sewage treatment plant.

### Additional good practice advice

<p>Don't eat or drink. Don't smoke. Don't use in proximity of open flame.</p>	
<p>Wash hands after use. Avoid contact with damaged skin. Do not mix with other products.</p>	
<p>Spillage instructions</p>	<p>Dilute with fresh water and mop up.</p>
<p>Hygiene practices</p>	<p>Follow the product instructions as specified on the label or in the product information sheet and use good occupational hygiene practices as specified in Section 7 of the product SDS.</p>

### Additional information depending on product composition

The label and (when required) the Safety Data Sheet contain additional, product specific information crucial for working safely with mixtures. Please refer to the product label and SDS for information including, but not limited to: product hazard classification, potentially allergenic fragrances, notable ingredients and threshold limit values (when available).

### Disclaimer

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