









ground = 0,63 (mg/kg ground)  
 - Substance: isopropanol  
 DNEL  
 Systemic effects Long term Workers inhalation = 500 (mg/m<sup>3</sup>)  
 Systemic effects Long term Workers dermal = 888 (mg/kg bw/day)  
 Systemic effects Long term Consumers inhalation = 89 (mg/m<sup>3</sup>)  
 Systemic effects Long term Consumers dermal = 319 (mg/kg bw/day)  
 Systemic effects Long term Consumers oral = 26 (mg/kg bw/day)  
 PNEC  
 Sweet water = 140,9 (mg/l)  
 sediment Sweet water = 552 (mg/kg/sediment)  
 Sea water = 140,9 (mg/l)  
 sediment Sea water = 552 (mg/kg/sediment)  
 intermittent emissions = 140,9 (mg/l)  
 STP = 2251 (mg/l)  
 ground = 28 (mg/kg ground)

### 8.2. Exposure controls

Appropriate engineering controls:

Other (Professional and/or consumer uses):

Not expected

Individual protection measures:

(a) Eye / face protection

When handling the pure product use safety glasses (spectacles cage) (EN 166).

(b) Skin protection

(i) Hand protection

When handling the pure product use chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3)

(ii) Other

When handling the pure product wear full protective skin clothing.

(c) Respiratory protection

Not needed for normal use.

(d) Thermal hazards

Avoid heating.

Environmental exposure controls:

Comply with national and EU rules for environmental protection. Do not release to 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	liquido limpido (bulk)	visivo/visual/visuel/visuell/zichtbaar
Odour	typical	empirico/empirical/empirique/empirisch
Odour threshold	non determinato	
pH	8.00-9.00	UNI 24003
Melting point/freezing point	not determined	OECD Guideline 102
Initial boiling point and boiling range	> 35°C (bulk)	ASTM D86
Flash point	< 23°C (bulk)	ASTM D93
Evaporation rate	non pertinente	
Flammability (solid, gas)	not determined	
Upper/lower flammability or explosive limits	not determined	
Vapour pressure	not determined	

Physical and chemical properties	Value	Determination method
Vapour density	not determined	UNI EN 13016-1:2018
Relative density	not determined	ISO 2811-3
Solubility	miscibile con acqua (bulk)	
Water solubility	miscibile con acqua (bulk)	
Partition coefficient: n-octanol/water	not determined	OECD Guideline 107
Auto-ignition temperature	not determined	DIN 51794
Decomposition temperature	non pertinente	
Viscosity	not determined	ASTM D7042
Explosive properties	non esplosivo	
Oxidising properties	non-oxidizing	

## 9.2. Other information

No data available.

## 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

Direct source of heat, sparks, free flames.

Avoid contact with combustible materials. The product could catch fire.  
heat, open flames, sparks or hot surfaces.

### 10.5. Incompatible materials

It can generate inflammable gases to contact with elementary metals, nitrides, strong reducing agents.

It can generate toxic gases to contact with oxidants mineral acids, organic peroxides, organic water peroxides.

It can ignite in contact with oxidants mineral acids, organic nitrides, peroxides and water peroxides, strong oxidants 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 isopropanol: Skin-rabbit

Result: mild skin irritation

(c) serious eye damage/irritation: If brought into contact with eyes, the product, causes significant irritations which may last for more than 24 hours.

isopropanol: Eyes-rabbit

Result: irritating to eyes-24 h

(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: isopropanol: Inhalation, oral-may cause drowsiness or dizziness.

(i) specific target organ toxicity (STOT) repeated exposure ethyl alcohol: oral

NOAEL (rat): 1 730 mg/kg bw/day

NOAEL (mouse): 9 700 mg/kg bw/day

NOAEL (mouse): 9 400 mg/kg bw (total dose)

isopropanol: No data

(j) aspiration hazard: ethyl alcohol: NOAEC (rat): 6.66 mg/L air

NOAEC (mouse): 1.3 mg/L air

NOAEC (monkey): 13 mg/m<sup>3</sup> air

NOEC (rat): 130 mg/m<sup>3</sup> air

NOEC (mouse): 130 mg/m<sup>3</sup> air

isopropanol: NOAEC (rat): 5 000 ppm

No toxicological tests were performed of this mixture. The health hazards were evaluated according to the test methods referred to in Regulation (EC) no 440/2008 of May 30, 2008 and subsequent amendments and in any case in accordance with article 9.2 of Regulation (EC) no 1272/2008 (CLP) of December 16, 2008.

Appear in chapters 2 and 15.

The complete toxicological data for components are available on demand.

LD50 (rat) Oral (mg/kg body weight) = 5840

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 16400

CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 500

Related to contained substances:

ethyl alcohol:

LD50 (rat) Oral (mg/kg body weight) = 1187

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 20000

CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 82,1

isopropanol:

LD50 (rat) Oral (mg/kg body weight) = 5840

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 16400

CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 500

## SECTION 12. Ecological information

### 12.1. Toxicity

PANNO IGIENIZZANTE SUPERFICI ALX - HYGIENIZER WIPES:

C(E)L50 (mg/l) = 9640

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

### 12.2. Persistence and degradability

Related to contained substances:

ethyl alcohol:

Readily biodegradable

BOD5

1.067 - 1.236 g O<sub>2</sub>/g test material

COD

1.99 g O<sub>2</sub>/g test material

isopropanol:



**14.5. Environmental hazards**

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

IMDG: Marine polluting agent : Not

**14.6. Special precautions for user**

The goods must be transported by vehicles carrying dangerous goods in accordance with the requirements published in the ADR Convention and in national regulations. The goods must be in their original packaging and in containers made of materials resistant to content and not likely to generate with this dangerous reaction. Insiders at the loading and unloading of dangerous goods must have received adequate training on the risks and the possible procedures in case of emergency.

**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**

More information:

The evaluation of information on the dangers of mixtures were made in accordance with the criteria referred to in articles 8 and 9 of Regulation (EC) no 1272/2008.

EU legislation reference:

- Regulation 1907/2006 / EC (REACH), as amended. Regulation No. 440/2008, as amended (Test methods REACH)
- Regulation 2008/1272 / EC (CLP), version in force
- Regulation 2015/830 / EU (MSDS)
- Regulation 2004/648 / EC, version in force. Reg. 2009/551 / EC (only detergents)
- Reg. 1223/2009 / EC (Cosmetic Products), version in force
- ADR 2019

Other declarations:

- The substance / mixture meets / not covered the following regulations:
- Regulation 2009/1005 / EC (Ozone Layer)
- Regulation 2004/850 / EC, version in force. Reg. 2010/757 / EC (POPs)
- Regulation 2008/689 / EC (import / export hazardous chemicals)
- Directive 2003/105 / EC (Seveso III)
- The product is free of GMOs (genetically modified organisms) and their derivatives according with Regulation 834/2007 / EC
- BSE: The product is excluded from the concerns of Reg. EC 1139/2003, because it is not of animal origin, does not contain animal derivatives and has not come into contact at any stage of production with animal derivatives.
- Our company does not perform nor commissioned animal tests on the product or its components.
- Directive 1999/2 / EC and 1999/3 / EC: The product has not been treated with ionizing radiation.
- Directive 2010/59 / EU: the product is free of residual solvents present or they do not exceed the maximum limits.
- Directive 2008/149 / EC: the product is free of residues of contaminants or those authorized do not exceed the maximum limits.

Any recordings, restrictions, membership in narrow categories of one or more components, are listed below. The lack of information means that no further specifications, or that all the components belong to a lower risk category.

The regulations listed below are not exhaustive of all the local or national rules applicable to the substance / mixture (including its components). Additional information are available on demand.

All substances are registered / preregistered / exempt from registration in the ECHA database of chemicals.

Seveso category:

P5c - FLAMMABLE LIQUIDS

REGULATION (EU) No 1357/2014 - waste:

HP3 - Flammable

HP4 - Irritant — skin irritation and eye damage

---

**15.2. Chemical safety assessment**

No chemical safety assessment was carried out by the supplier

**SECTION 16. Other information****16.1. Other information**

Description of the hazard statements exposed to point 3

H225 = Highly flammable liquid and vapour.

H319 = Causes serious eye irritation.

H336 = May cause drowsiness or dizziness.

Classification based on data of all mixture components

The information reported are based on the known properties of substances at the date of this MSDS. The key relevant information on available exposure scenarios for substances are briefly included in sections 1.2, 7.3 and 8.2. Our company is not responsible for the safety evaluation of downstream users, that shall ensure the suitability and completeness of such information in relation to their specific intended use. The available scenarios are provided on demand.

Bibliographical sources:

Safety Data Sheets suppliers. Relevant exposure scenarios.

European Commission, Health and Consumers, database Cosing, JRC-IHCP, ESIS, ECETOC

ECHA Brief Profiles (<http://echa.europa.eu>)

National Institute of Health, database labeling substances

The Good Scents Company (<http://www.thegoodscentscompany.com>)

EFFA code of Practises 2009 - IFRA / IOFI Labeling Manual

Ministry of Environment, DATABASE DESC

NIOSH Pocket Guide to Chemical Hazard

Pubchem Database

IFA GESTIS Substance Database

---