

**Safety Data Sheet dated 16/5/2017, version 3**



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

### 1.1. Product identifier

Mixture identification:

Trade name: PK 311 B SUPER GLASS

Trade code: START-UP 400224 – REFILL BOX 400234

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

Recommended use:

Effective glass detergent and multisurface.

PROFESSIONAL USE.

Uses advised against:

Do not use for purposes other than those listed.

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

Company:

Co. Ind. s.c.

Via Saliceto 22/H

40013 Castel Maggiore BO - ITALY

Tel. +39 051 6328511 - Fax +39 051 701152

Competent person responsible for the safety data sheet:

allertasanificazione@coind.it

### 1.4. Emergency telephone number

Company emergency telephone number: Tel. +39 051 6328511 (8.00 – 17.00).

Poison centers (h24):

Ospedale Niguarda Ca' Granda di Milano Tel. +39 02 66101029.

Ospedale Pediatrico Bambino Gesù di Roma Tel. +39 06 68593726

Az. Osp. Univ. Di Foggia Tel. +39 0881 732326

Az. Osp. A. Cardarelli di Napoli Tel. +39 081 7472870

Policlinico Umberto I di Roma Tel. +39 06 49978000

Policlinico A. Gemelli di Roma Tel. +39 06 3054343

Az. Osp. Careggi U.O. Tossicologia Medica di Firenze Tel. +39 055 7947819

Centro Nazionale di Informazione Tossicologica di Pavia Tel. +39 0382 24444

Azienda Ospedaliera Papa Giovanni XXII di Bergamo Tel. +39 800883300

## **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

Flam. Liq. 3, H226 Flammable liquid and vapour.

Eye Dam. 1, H318 Causes serious eye damage.

Adverse physicochemical, human health and environmental effects:

No other hazards

### 2.2. Label elements

Hazard pictograms:



Danger

Hazard statements:

H226 Flammable liquid and vapour.

H318 Causes serious eye damage.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 Wear protective gloves, eye protection and face protection.

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 or a doctor.

P370+P378 In case of fire, use a CO<sub>2</sub>, foam or dry powder fire extinguisher to extinguish.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of container in accordance with local regulation.

Special Provisions:

None

Contains

ALCOHOLS, SECONDARY C11-15, ETHOXYLATED

METHYL ALPHA-IONONE ISOMERS: May produce an allergic reaction.

CITRONELLOL: May produce an allergic reaction.

4-TERT-BUTYLCYCLOHEXYL ACETATE: May produce an allergic reaction.

HEXYL CINNAMAL: May produce an allergic reaction.

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

Ingredients comply with Regulation EC No.648/2004:

5 - 15%: Non-ionic surfactants.

Perfume (CITRONELLOL, ALPHA-ISOMETHYL IONONE, AMYLCINNAMYL ALCOHOL, HEXYL CINNAMAL, COUMARIN, GERANIOL)

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

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### **SECTION 3: Composition/information on ingredients**

3.1. Substances

Not applicable.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
23 - 28 %	ETHANOL; ETHYL ALCOHOL	Index number: 603-002-00-5 CAS: 64-17-5 EC: 200-578-6 REACH No.: 01-2119457610-43	 2.6/2 Flam. Liq. 2 H225  3.3/2 Eye Irrit. 2 H319
18 - 21 %	1-PROPOXYPROPAN-2-OL	CAS: 1569-01-3 EC: 216-372-4 REACH No.: 01-2119474443-37	 2.6/2 Flam. Liq. 2 H225  3.3/2 Eye Irrit. 2 H319
3 - 5 %	ALCOHOLS, SECONDARY C11-15, ETHOXYLATED	CAS: 68131-40-8	 3.1/4/Oral Acute Tox. 4 H302  3.3/1 Eye Dam. 1 H318
0.5 - 1 %	ETHANEDIOL; ETHYLENE GLYCOL	Index number: 603-027-00-1 CAS: 107-21-1 EC: 203-473-3 REACH No.: 01-2119456816-28	 3.1/4/Oral Acute Tox. 4 H302  3.9/2 STOT RE 2 H373
0.25 - 0.5 %	BUTANONE; ETHYL METHYL KETONE	Index number: 606-002-00-3 CAS: 78-93-3 EC: 201-159-0 REACH No.: 01-2119457290-43	 2.6/2 Flam. Liq. 2 H225  3.3/2 Eye Irrit. 2 H319  3.8/3 STOT SE 3 H336
0.1 - 0.25 %	METHYL ALPHA-IONONE ISOMERS	CAS: 1335-46-2 EC: 215-635-0 REACH No.: 01-2119471851-35	 3.4.2/1 Skin Sens. 1 H317  4.1/C2 Aquatic Chronic 2 H411
0.1 - 0.23 %	CITRONELLOL	CAS: 106-22-9 EC: 203-375-0	 3.2/2 Skin Irrit. 2 H315  3.3/2 Eye Irrit. 2 H319  3.4.2/1 Skin Sens. 1 H317  4.1/C2 Aquatic Chronic 2 H411
0.1 - 0.2 %	4-TERT-BUTYLCYCLOHEXYL ACETATE	CAS: 32210-23-4 EC: 250-954-9	 3.4.2/1 Skin Sens. 1 H317
0.1 - 0.2 %	HEXYL CINNAMAL	CAS: 101-86-0 EC: 202-983-3 REACH No.: 01-2119533092-50	 3.4.2/1 Skin Sens. 1 H317  4.1/C2 Aquatic Chronic 2 H411

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## **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

#### In case of skin contact:

Immediately take off all contaminated clothing.

Wash immediately with plenty of running water and soap.

#### In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

#### In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

#### In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

No data available for the mixture. See section 11 for symptoms and effects of the substances.

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### Treatment:

Treat symptomatically.

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## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

#### Suitable extinguishing media:

In case of fire, use a CO<sub>2</sub>, foam or dry powder fire extinguisher to extinguish.

#### Extinguishing media which must not be used for safety reasons:

Water jets.

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

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

### 5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

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## **SECTION 6: Accidental release measures**

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

Wear personal protection equipment.

Remove all sources of ignition.

Remove persons to safety.

See protective measures under point 7 and 8.

#### 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.  
Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

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

Wash with plenty of water.

#### 6.4. Reference to other sections

See also section 8 and 13

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### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

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

Keep away from open flames, sparks, hot surfaces. Avoid direct exposure to sunlight.

Always keep in a well ventilated place.

Keep away from food, drink and feed.

Incompatible materials:

See paragraph 10 below.

Instructions as regards storage premises:

Cool and adequately ventilated.

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

See section 1.2.

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### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

ETHANOL; ETHYL ALCOHOL - CAS: 64-17-5

- OEL Type: HSE - TWA: 1920 mg/m<sup>3</sup>, 1000 ppm - Notes: United Kingdom

TLV TWA - 1000 ppm, A4 - 1884,25 mg/m<sup>3</sup>, A4

TLV STEL - A4

ETHANEDIOL; ETHYLENE GLYCOL - CAS: 107-21-1

- OEL Type: EU - TWA: 52 mg/m<sup>3</sup>, 20 ppm - STEL: 104 mg/m<sup>3</sup>, 40 ppm

TLV TWA - A4

TLV STEL - C 39,39 ppm - C 100 mg/m<sup>3</sup>, A4

BUTANONE; ETHYL METHYL KETONE - CAS: 78-93-3

TLV TWA - 200 ppm - 589,78 mg/m<sup>3</sup>

TLV STEL - 300 ppm - 884,66 mg/m<sup>3</sup>

OEL 8h - 600 mg/m<sup>3</sup> - 200 ppm

OEL short - 900 mg/m<sup>3</sup> - 300 ppm

**DNEL Exposure Limit Values**

**ETHANOL; ETHYL ALCOHOL - CAS: 64-17-5**

Worker Industry: 1900 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Industry: 950 mg/m<sup>3</sup> - Consumer: 114 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 343 mg/kg bw/d - Consumer: 206 mg/kg bw/d - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 87 mg/kg bw/d - Exposure: Human Oral - Frequency: Long Term, systemic effects

**1-PROPOXYPROPAN-2-OL - CAS: 1569-01-3**

Worker Industry: 117 mg/m<sup>3</sup> - Consumer: 26 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 9 mg/kg - Consumer: 2.2 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 2.2 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

**ETHANEDIOL; ETHYLENE GLYCOL - CAS: 107-21-1**

Worker Industry: 106 mg/kg - Consumer: 53 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 35 mg/m<sup>3</sup> - Consumer: 7 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

**BUTANONE; ETHYL METHYL KETONE - CAS: 78-93-3**

Worker Industry: 1161 mg/kg - Consumer: 412 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 600 mg/m<sup>3</sup> - Consumer: 106 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 31 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

**PNEC Exposure Limit Values**

**ETHANOL; ETHYL ALCOHOL - CAS: 64-17-5**

Target: Fresh Water - Value: 0.96 mg/l

Target: Marine water - Value: 0.79 mg/l

Target: Microorganisms in sewage treatments - Value: 580 mg/l

Target: Freshwater sediments - Value: 3.6 mg/kg

Target: Marine water sediments - Value: 2.9 mg/kg

Target: Intermittent releases - Value: 2.75 mg/l

Target: Soil - Value: 0.63 mg/kg

Target: STP - Value: 580 mg/l

Target: Oral (Secondary poisoning) - Value: 720 mg/kg

**1-PROPOXYPROPAN-2-OL - CAS: 1569-01-3**

Target: Microorganisms in sewage treatments - Value: 4 mg/l

Target: Fresh Water - Value: 0.1 mg/l

Target: Marine water - Value: 0.01 mg/l

Target: Intermittent releases - Value: 1 mg/l

Target: Soil (agricultural) - Value: 0.0185 mg/kg

**ETHANEDIOL; ETHYLENE GLYCOL - CAS: 107-21-1**

Target: Microorganisms in sewage treatments - Value: 199.5 mg/l

Target: Soil (agricultural) - Value: 1.53 mg/kg

Target: Fresh Water - Value: 10 mg/l  
Target: Marine water - Value: 1 mg/l  
Target: Intermittent releases - Value: 10 mg/l  
BUTANONE; ETHYL METHYL KETONE - CAS: 78-93-3  
Target: Fresh Water - Value: 55.8 mg/l  
Target: Periodic release - Value: 55.8 mg/l  
Target: Marine water sediments - Value: 284.7 mg/kg  
Target: Freshwater sediments - Value: 284.74 mg/kg  
Target: Soil (agricultural) - Value: 22.5 mg/kg  
Target: STP - Value: 709 mg/l  
Target: Oral (Secondary poisoning) - Value: 1000 mg/kg

## 8.2. Exposure controls

### General health and safety measures

Handle according to good industrial hygiene and safety practice, avoid contact with eyes and skin. Since the concentrated product is diluted in a closed system/process, in which the operator does not come into direct contact with the concentrated product, the use of special personal protective equipment is not required.

We always recommend the operator uses good industrial hygiene practices. Train the personnel.

### Safety measures recommended for handling the undiluted product:

HAND PROTECTION: Not required under normal conditions of use

EYE PROTECTION: Not required under normal conditions of use

SKIN PROTECTION: Not required under normal conditions of use

RESPIRATORY PROTECTION: Not required under normal conditions of use

Further to accidental bullet breakage, handle according to adequate good industrial hygiene and safety practice

### Safety measures recommended for handling the diluted product:

HAND PROTECTION: In case of contact with the product, rinse hands after use. In the event of prolonged and/or repetitive use or individual sensitivity to the product, it may be appropriate to protect the hands

EYE PROTECTION: Not required under normal conditions of use

SKIN PROTECTION: Not required under normal conditions of use

RESPIRATORY PROTECTION: Not required under normal conditions of use

Thermal risks:

None.

### Environmental exposure controls:

For information on environmental exposure controls, refer to the exposure scenarios (see Section 16 of this document).

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## SECTION 9: Physical and chemical properties

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

Properties	Value	Method:	Notes
Appearance and colour:	blue liquid	--	--
Odour:	characteristic	--	--
Odour threshold:	Not Relevant	--	--

pH:	4,8	--	--
Melting point / freezing point:	Not Relevant	--	--
Initial boiling point and boiling range:	Not Relevant	--	--
Flash point:	28 ° C	Closed cup	--
Evaporation rate:	Not Relevant	--	--
Solid/gas flammability:	not applicable	--	--
Upper/lower flammability or explosive limits:	Not Relevant	--	--
Vapour pressure:	Not Relevant	--	--
Vapour density:	Not Relevant	--	--
Relative density:	0.942 g/ml	--	--
Solubility in water:	soluble	--	--
Solubility in oil:	Not Relevant	--	--
Partition coefficient (n-octanol/water):	Not Relevant	--	--
Auto-ignition temperature:	not applicable	--	--
Decomposition temperature:	Not Relevant	--	--
Viscosity:	Not Relevant	--	--
Explosive properties:	not explosive	--	--
Oxidizing properties:	non-oxidizing	--	--

#### 9.2. Other information

Properties	Value	Method:	Notes
Miscibility:	Not Relevant	--	--
Fat Solubility:	Not Relevant	--	--

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

It reacts with acids and strong oxidizers.

#### 10.2. Chemical stability

Stable under normal conditions

#### 10.3. Possibility of hazardous reactions

It may generate flammable gases on contact with elementary metals (alkalis and alkaline earth), nitrides, and powerful reducing agents.

It may catch fire on contact with oxidising mineral acids, elementary metals (alkalis and alkaline earth), nitrides, organic peroxides and hydroperoxides, oxidising agents, and reducing agents.

#### 10.4. Conditions to avoid

Avoid overheating, electrostatic discharge and all sources of ignition.

#### 10.5. Incompatible materials

Non-oxidizing agents, strong acids, strong bases.



#### 10.6. Hazardous decomposition products

In case of fire or decomposition may spread gas and vapors potentially harmful for health as CO<sub>2</sub>, carbon mono-oxide and other irritating fumes.

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### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Toxicological information of the product:

- a) acute toxicity  
Not classified  
Based on available data, the classification criteria are not met
- b) skin corrosion/irritation  
Not classified  
Based on available data, the classification criteria are not met
- c) serious eye damage/irritation  
The product is classified: Eye Dam. 1 H318
- d) respiratory or skin sensitisation  
Not classified  
Based on available data, the classification criteria are not met
- e) germ cell mutagenicity  
Not classified  
Based on available data, the classification criteria are not met
- f) carcinogenicity  
Not classified  
Based on available data, the classification criteria are not met
- g) reproductive toxicity  
Not classified  
Based on available data, the classification criteria are not met
- h) STOT-single exposure  
Not classified  
Based on available data, the classification criteria are not met
- i) STOT-repeated exposure  
Not classified  
Based on available data, the classification criteria are not met
- j) aspiration hazard  
Not classified  
Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

ETHANOL; ETHYL ALCOHOL - CAS: 64-17-5

- a) acute toxicity:
  - Test: LD50 - Route: Oral - Species: Rabbit = 6300 mg/kg - Notes: OECD 401
  - Test: LC50 - Route: Inhalation - Species: Rat = 124.7 mg/m<sup>3</sup> - Duration: 4h - Notes: OECD 403
  - Test: LD50 - Route: Skin - Species: Rabbit = 20000 mg/kg
  - Test: LD50 - Route: Oral - Species: Rat = 10470 mg/kg - Notes: OECD 401
- b) skin corrosion/irritation:
  - Test: Skin Irritant - Species: Rat Negative - Notes: OECD 404

Repeated or prolonged skin contact may cause dermatitis or dieback.

c) serious eye damage/irritation:

Test: Eye Irritant Positive - Notes: OECD 405

d) respiratory or skin sensitisation:

Test: Skin Sensitization Negative

e) germ cell mutagenicity:

Test: Mutagenesis Negative

g) reproductive toxicity:

Test: NOAEL - Species: Rat > 20000 ppm - Notes: OECD 414

1-PROPOXYPROPAN-2-OL - CAS: 1569-01-3

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat = 8.34 mg/l - Duration: 4h

Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg

c) serious eye damage/irritation:

Test: Eye Irritant Yes

ALCOHOLS, SECONDARY C11-15, ETHOXYLATED - CAS: 68131-40-8

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 1900 mg/l

ETHANEDIOL; ETHYLENE GLYCOL - CAS: 107-21-1

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat > 2.5 mg/l - Duration: 6h

Test: LD50 - Route: Oral - Species: Rat = 7712 mg/kg

Test: LD50 - Route: Skin - Species: Mouse > 3500 mg/kg

b) skin corrosion/irritation:

Test: Skin Irritant Positive

c) serious eye damage/irritation:

Test: Eye Irritant Positive

d) respiratory or skin sensitisation:

Test: Skin Sensitization Negative

i) STOT-repeated exposure:

Test: Chronic toxicity Positive

BUTANONE; ETHYL METHYL KETONE - CAS: 78-93-3

a) acute toxicity:

Test: LD50 - Route: Skin - Species: Rabbit > 10 ml/kg

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## SECTION 12: Ecological information

### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Not classified for environmental hazards

Based on available data, the classification criteria are not met

ETHANOL; ETHYL ALCOHOL - CAS: 64-17-5

a) Aquatic acute toxicity:

Endpoint: IC50 - Species: Algae = 275 mg/l - Duration h: 72 - Notes: Equivalent or similar method to OECD TG 201

Endpoint: EC50 - Species: Ceriodaphnia dubia = 5012 mg/l - Duration h: 48 -  
Notes: ASTM E729-80 method

Endpoint: LC50 - Species: Fish (Pimephales promelas) = 14200 mg/l - Duration h:  
96 - Notes: US EPA method E03-05

Endpoint: EC50 - Species: Algae (lemna gibba) = 4432 mg/l - Duration h: 168

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia magna = 9.6 mg/l - Duration h: 216

1-PROPOXYPROPAN-2-OL - CAS: 1569-01-3

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae = 1466 mg/l - Duration h: 96

Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 96

Endpoint: LC50 - Species: Daphnia > 100 mg/l - Duration h: 48

c) Bacteria toxicity:

Endpoint: EC50 - Species: MICRORG = 3800 mg/l - Duration h: 16

ALCOHOLS, SECONDARY C11-15, ETHOXYLATED - CAS: 68131-40-8

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish (Pimephales promelas) > 1 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia magna = 4.1 mg/l - Duration h: 48

Endpoint: EC50 - Species: Bacteria > 1000 mg/l

ETHANEDIOL; ETHYLENE GLYCOL - CAS: 107-21-1

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 72860 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia > 100 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae > 6500 mg/l - Duration h: 96

BUTANONE; ETHYL METHYL KETONE - CAS: 78-93-3

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish (Pimephales promelas) = 2993 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 308 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae (Scenedesmus quadricauda) = 2029 mg/l -  
Duration h: 96

12.2. Persistence and degradability

ETHANOL; ETHYL ALCOHOL - CAS: 64-17-5

Biodegradability: Readily biodegradable - Notes: Key study available in literature

ALCOHOLS, SECONDARY C11-15, ETHOXYLATED - CAS: 68131-40-8

Biodegradability: Readily biodegradable - Test: OECD 301F - Duration h: 28 days -  
%: 67

ETHANEDIOL; ETHYLENE GLYCOL - CAS: 107-21-1

Biodegradability: Readily biodegradable

12.3. Bioaccumulative potential

ETHANOL; ETHYL ALCOHOL - CAS: 64-17-5

Not bioaccumulative - Test: BCF - Bioconcentration factor 1 - Notes: Read-across  
method from analogous substances. Study available in literature.

ETHANEDIOL; ETHYLENE GLYCOL - CAS: 107-21-1

Not bioaccumulative

12.4. Mobility in soil

ETHANOL; ETHYL ALCOHOL - CAS: 64-17-5

The product is poorly absorbed into the soil or sediments. Complete solubility in water, vaporization in the atmosphere.

ALCOHOLS, SECONDARY C11-15, ETHOXYLATED - CAS: 68131-40-8

Soluble in water.

ETHANEDIOL; ETHYLENE GLYCOL - CAS: 107-21-1

Mobile

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects

None

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### **SECTION 13: Disposal considerations**

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

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### **SECTION 14: Transport information**



14.1. UN number

ADR-UN Number: 1993

IATA-UN Number: 1993

IMDG-UN Number: 1993

14.2. UN proper shipping name

ADR-Shipping Name: FLAMMABLE LIQUID, N.O.S. (ethanol)

IATA-Shipping Name: FLAMMABLE LIQUID, N.O.S. (ethanol)

IMDG-Shipping Name: FLAMMABLE LIQUID, N.O.S. (ethanol)

14.3. Transport hazard class(es)

ADR-Class: 3

ADR - Hazard identification number: 30

IATA-Class: 3

IATA-Label: 3

IMDG-Class: 3

14.4. Packing group

ADR-Packing Group: III

IATA-Packing group: III

IMDG-Packing group: III

14.5. Environmental hazards

ADR-Environmental Pollutant: No

IMDG-Marine pollutant: No

14.6. Special precautions for user



ADR-Subsidiary risks: -  
ADR-S.P.: 274 601 640E  
ADR-Transport category (Tunnel restriction code): (D/E)  
IATA-Passenger Aircraft: 355  
IATA-Subsidiary risks: -  
IATA-Cargo Aircraft: 366  
IATA-S.P.: A3  
IATA-ERG: 3L  
IMDG-EmS: F-E , S-E  
IMDG-Subsidiary risks: -  
IMDG-Stowage and handling: Category A  
IMDG-Segregation: -

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code  
Not applicable.

## **SECTION 15: Regulatory information**

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

Dir. 98/24/EC (Risks related to chemical agents at work)  
Dir. 2000/39/EC (Occupational exposure limit values)  
Regulation (EC) n. 1907/2006 (REACH)  
Regulation (EC) n. 1272/2008 (CLP)  
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013  
Regulation (EU) 2015/830  
Regulation (EU) n. 286/2011 (ATP 2 CLP)  
Regulation (EU) n. 618/2012 (ATP 3 CLP)  
Regulation (EU) n. 487/2013 (ATP 4 CLP)  
Regulation (EU) n. 944/2013 (ATP 5 CLP)  
Regulation (EU) n. 605/2014 (ATP 6 CLP)  
Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Restrictions related to the product or the substances contained according to Annex XVII  
Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

Restriction 3  
Restriction 40

Restrictions related to the substances contained:

No restriction.

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)  
Regulation (EC) nr 648/2004 (detergents).  
Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1  
Product belongs to category: P5c

#### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

Substances for which a Chemical Safety Assessment has been carried out:

ETHANOL; ETHYL ALCOHOL

1-PROPOXYPROPAN-2-OL

ETHANEDIOL; ETHYLENE GLYCOL

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### SECTION 16: Other information

Full text of phrases referred to in Section 3:

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H373 May cause damage to organs through prolonged or repeated exposure.

H336 May cause drowsiness or dizziness.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

H315 Causes skin irritation.

<b>Hazard class and hazard category</b>	<b>Code</b>	<b>Description</b>
Flam. Liq. 2	2.6/2	Flammable liquid, Category 2
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Skin Sens. 1	3.4.2/1	Skin Sensitisation, Category 1
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
STOT RE 2	3.9/2	Specific target organ toxicity - repeated exposure, Category 2
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2

Paragraphs modified from the previous revision:

SECTION 1

SECTION 2

SECTION 3

SECTION 4

SECTION 5

SECTION 6

SECTION 7

SECTION 8

SECTION 9

SECTION 10

SECTION 11

SECTION 12  
SECTION 13  
SECTION 14  
SECTION 15  
SECTION 16

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

<b>Classification according to Regulation (EC) Nr. 1272/2008</b>	<b>Classification procedure</b>
Flam. Liq. 3, H226	On basis of test data
Eye Dam. 1, H318	Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,  
Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van  
Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Exposure scenarios must be obtained from the following addresses:

mrimessi@coind.it / rdsanificazione@coind.it.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.

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## **SAFETY DATA SHEET**

### **PK 311 B SUPER GLASS (BULLET)**

LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.