## **Safety Data Sheet**

## WB ANTI-YELLOWING HARDENER FOR WB PRODUCTS PROMETEA

Safety Data Sheet dated 18/01/2023 version 7



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

#### 1.1. Product identifier

Mixture identification:

Trade name: WB ANTI-YELLOWING HARDENER FOR WB PRODUCTS PROMETEA

Trade code: CA550FR

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

Recommended use: Paint product for professional/industrial use Uses advised against: Uses not foreseen by the recommended uses

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

Company: INDUSTRIA CHIMICA ADRIATICA S.P.A.

Via S. Pertini, 52

62012 Civitanova Marche (MC) Italy

tel: +39 0733 8080 fax: +39 0733 808140

Responsable: regulatoryaffairs@icaspa.com - INDUSTRIA CHIMICA ADRIATICA S.p.A.

## 1.4. Emergency telephone number

Anti-poison centre - Hospital of Florence (24/24 hours)

Telephone +39 055 794 7819

#### SECTION 2: Hazards identification





## 2.1. Classification of the substance or mixture

# Regulation (EC) n. 1272/2008 (CLP)

Flam. Liq. 3 Flammable liquid and vapour.

Acute Tox. 4 Harmful if inhaled.

Eye Irrit. 2 Causes serious eye irritation.

Skin Sens. 1 May cause an allergic skin reaction. STOT SE 3 May cause respiratory irritation.

Aquatic Chronic 3 Harmful to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

## 2.2. Label elements

# Regulation (EC) No 1272/2008 (CLP):

## **Pictograms and Signal Words**



Warning

# **Hazard statements**

H226 Flammable liquid and vapour.H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

## **Precautionary statements**

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

P261 Avoid breathing dust / fume / gas / mist / vapours / spray.

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P273 Avoid release to the environment.
P280 Wear protective gloves/clothing and eye/face protection.

P370+P378 In case of fire, use a dry powder fire extinguisher to extinguish.

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

#### **Contains**

Hydrophilic aliphatic polyisocyanate

## Dir. 2004/42/EC (VOC directive)

This product contains max 342 g/l VOC.

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

None.

#### 2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%.

Other Hazards: No other hazards

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

#### 3.1. Substances

NΑ

## 3.2. Mixtures

Mixture identification: WB ANTI-YELLOWING HARDENER FOR WB PRODUCTS PROMETEA

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

| Qty     | Name                                 | Ident. Numb.   | Classification   | Registration Number   |
|---------|--------------------------------------|--|--|-----------------------|
| 50-75 % | Hydrophilic aliphatic polyisocyanate | CAS:160994-68-<br>3                                    | Skin Sens. 1, H317; Acute Tox. 4,<br>H332; STOT SE 3, H335; Aquatic<br>Chronic 3, H412 |                       |
| 15-25 % | 1-methoxy-2-propanol acetate         | CAS:108-65-6<br>EC:203-603-9<br>Index:607-195-<br>00-7 | Flam. Liq. 3, H226; STOT SE 3,<br>H336   | 01-2119475791-29-XXXX |
| 10-15 % | Propylene carbonate                  | CAS:108-32-7<br>EC:203-572-1<br>Index:607-194-<br>00-1 | Eye Irrit. 2, H319   | 01-2119537232-48-XXXX |

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

# 4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediatley and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice / attention.

In case of Ingestion

Have the subject drink as much water as possible. Get medical advice / attention. Do not induce vomiting unless explicitly authorization by a doctor.

In case of Inhalation:

If breathing is irregular or stopped, administer artificial respiration.

Get medical advice / attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

Eye irritation

Eve damages

# 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).

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# **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

Suitable extinguishing media:

In case of fire, use a dry powder fire extinguisher to extinguish.

For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapors and protect those trying to stem the leak.

Extinguishing media which must not be used for safety reasons:

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

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

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Excess pressure may form in containers exposed to fire at a risk of explosion.

#### 5.3. Advice for firefighters

#### **GENERAL INFORMATION**

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

#### SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

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

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

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

#### 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

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

# 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

# **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges.

When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

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

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

## 7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

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

#### 8.1. Control parameters

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# **Community Occupational Exposure Limits (OEL)**

| Component                    | OEL Type | Country             | Ceiling | Long Term<br>mg/m3 | Long Term<br>ppm | Short Term<br>mg/m3 | Short Term ppm | Behaviour | Notes |
|------------------------------|----------|---------------------|---------|--------------------|------------------|---------------------|----------------|-----------|-------|
| 1-methoxy-2-propanol acetate | EU       |                     | С       | 275                | 50               | 550                 | 100            |           |       |
|                              | NATIONAL | BARBADOS            | С       | 270                | 50               |                     |                |           |       |
|                              | NATIONAL | ANTIGUA AND BARBUDA | С       | 275                | 50               | 550                 | 100            |           |       |
|                              | NATIONAL | ANTARCTICA          | С       | 275                | 50               | 550                 | 100            |           |       |
|                              | NATIONAL | POLAND              | С       | 260,000            |                  | 520,000             |                |           |       |

# **Predicted No Effect Concentration (PNEC) values**

| Component                    | CAS-No.  | PNEC LIMIT  | Exposure Route                     | Exposure<br>Frequency | Remark |
|------------------------------|----------|-------------|------------------------------------|-----------------------|--------|
| 1-methoxy-2-propanol acetate | 108-65-6 | 0,29 mg/kg  | Soil (agricultural)                |                       |        |
|                              |          | 0,635 mg/l  | Water                              |                       |        |
|                              |          | 6,35 mg/l   | WATER, INTERMITTING<br>RELEASE     |                       |        |
|                              |          | 0,064 mg/l  | Water                              |                       |        |
|                              |          | 3,29 mg/kg  | Air                                |                       |        |
|                              |          | 0,329 mg/kg | Marine water sediments             |                       |        |
|                              |          | 100 mg/l    | Microorganisms in sewag treatments | e                     |        |
| Propylene carbonate          | 108-32-7 | 0,81 mg/kg  | Soil (agricultural)                |                       |        |
|                              |          | 0,9 mg/l    | Water                              |                       |        |
|                              |          | 0,09 mg/l   | Water                              |                       |        |

# **Derived No Effect Level (DNEL) values**

| Component                        | CAS-No.  | Worker<br>Industry | Worker<br>Professional | Consumer   | Exposure<br>Route   | Exposure Frequency           | Remark |
|----------------------------------|----------|--------------------|------------------------|------------|---------------------|------------------------------|--------|
| 1-methoxy-2-<br>propanol acetate | 108-65-6 | -                  |                        | 500 mg/kg  | Human Oral          | Short Term, systemic effects |        |
|                                  |          | 796 mg/kg          |                        | 320 mg/kg  | Human Dermal        | Long Term, systemic effects  |        |
|                                  |          | 550 mg/m3          |                        | 33 mg/m3   | Human<br>Inhalation | Long Term, local effects     |        |
|                                  |          | 275 mg/m3          |                        | 33 mg/m3   | Human<br>Inhalation | Long Term, systemic effects  |        |
|                                  |          |                    |                        | 36 mg/kg   | Human Oral          | Long Term, systemic effects  |        |
| Propylene carbonate 108-32-7     |          | 50 mg/kg           |                        | 25 mg/kg   | Human Dermal        | Long Term, systemic effects  |        |
|                                  |          | 20 mg/m3           |                        | 10 mg/m3   | Human<br>Inhalation | Long Term, local effects     |        |
|                                  |          | 176 mg/m3          |                        | 43,5 mg/m3 | Human<br>Inhalation | Long Term, systemic effects  |        |
|                                  |          |                    |                        | 25 mg/kg   | Human Oral          | Long Term, systemic effects  |        |

# 8.2. Exposure controls

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Wear airtight protective goggles (see standard EN 166).

Protection for skin:

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

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Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability. The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

## Respiratory protection:

Use adequate protective respiratory equipment.

#### Thermal Hazards:

N.A.

#### Environmental exposure controls:

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

#### Hygienic and Technical measures

N.A.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical State Liquid Color: Not available Odour: N.A.

odour: N. pH: N.A.

Kinematic viscosity: N.A.

Melting point / freezing point: N.A.
Initial boiling point and boiling range: N.A.

Flash point:  $23^{\circ}C \le T \le 60^{\circ}C$ 

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.A.
Vapour pressure: N.A.
Relative density: 1.14 g/ml
Solubility in water: N.A.
Solubility in oil: N.A.

Partition coefficient (n-octanol/water): N.A.

Nanoforms dispersion stability Auto-ignition temperature: N.A. Decomposition temperature: N.A.

Flammability: The product is classified Flam. Liq. 3 H226 VOC content (g/L) in the product (2010/75/UE) 225.72 VOC content % in the product (2010/75/UE) 19.80

# **Particle characteristics:**

Particle size: N.A.

#### 9.2. Other information

Miscibility: N.A.
Conductivity: N.A.
Evaporation rate: N.A.
No other relevant information

# **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

Stable under normal conditions

There are no particular risks of reaction with other substances in normal conditions of use.

#### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

# 10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

# 10.4. Conditions to avoid

Stable under normal conditions.

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

## 10.5. Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

## 10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

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## **SECTION 11: Toxicological information**

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

## **Toxicological Information of the Preparation**

a) acute toxicity The product is classified: Acute Tox. 4(H332)

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 Irrit. 2(H319) d) respiratory or skin sensitisation The product is classified: Skin Sens. 1(H317)

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

The product is classified: STOT SE 3(H335) h) STOT-single exposure

i) STOT-repeated exposure

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 on main components of the mixture:

Hydrophilic aliphatic pólyisocyanate

a) acute toxicity

LD50 Oral 2000 mg/kg

b) skin corrosion/irritation LD50 Skin 2000 mg/kg

j) aspiration hazard LC50 Inhalation Vapour 0,39 mg/l 4h

1-methoxy-2-propanol acetate

a) acute toxicity

LD50 Oral Rat > 5000 mg/kg

b) skin corrosion/irritation LD50 Skin Rabbit > 5000 mg/kg

j) aspiration hazard LC50 Inhalation Vapour Rat > 10,6 mg/l 6h

Propylene carbonate

a) acute toxicity

LD50 Oral Rat > 20000 mg/kg

b) skin corrosion/irritation LD50 Skin Rabbit 23800 mg/kg

LC50 Inhalation Vapour Rat > 5000 mg/l j) aspiration hazard

# 11.2. Information on other hazards

## **Endocrine disrupting properties:**

No endocrine disruptor substances present in concentration >= 0.1%

## **SECTION 12: Ecological information**

# 12.1. Toxicity

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

Eco-Toxicological Information:

## List of Eco-Toxicological properties of the product

The product is classified: Aquatic Chronic 3(H412)

## List of Eco-Toxicological properties of the components

| Component | Ident. Numb. | Ecotox Data |
|-----------|--------------|-------------|
| Component | taent. Numb. | ECOTOX Data |

CAS: 108-65-6 - a) Aquatic acute toxicity: EC50 Daphnia > 500 mg/L 48h - Daphnia Magna 1-methoxy-2-propanol acetate

EINECS: 203-603-9 - INDEX: 607-195-00-7

b) Aquatic chronic toxicity: IC50 Algae > 1000 mg/L 72h - Selenastrum

capricornutum

a) Aquatic acute toxicity: LC50 Fish > 100 mg/L 96h - Fish

b) Aquatic chronic toxicity: NOEC Fish 475 mg/L - Oryzias latipes

CAS: 108-32-7 - b) Aquatic chronic toxicity: IC50 Algae > 900 mg/L 72h - Algae Propylene carbonate

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EINECS: 203-572-1 - INDEX: 607-194-00-1

a) Aquatic acute toxicity: LC50 Fish > 1000 mg/L 96h - Fish

## 12.2. Persistence and degradability

Component Persitence/Degradabili Value

ty:

Propylene carbonate Readily biodegradable C

# 12.3. Bioaccumulative potential

N.A.

## 12.4. Mobility in soil

N.A.

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

No PBT Ingredients are present

## 12.6 Endocrine disrupting properties

No endocrine disruptor substances present in concentration >= 0.1%

#### 12.7 Other adverse effects

NΑ

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. Waste transportation may be subject to ADR restrictions.

## CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

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

## 14.1. UN number or ID number

1263

## 14.2. UN proper shipping name

ADR-Shipping Name: PAINT IATA-Technical name: PAINT IMDG-Technical name: PAINT

## 14.3. Transport hazard class(es)

ADR-Class: 3
IATA-Class: 3
IMDG-Class: 3

# 14.4. Packing group

ADR-Packing Group: III IATA-Packing group: III IMDG-Packing group: III

## 14.5. Environmental hazards

Toxic Ingredients Qty: 0.00

High Toxicity Ingredients Qty: 0.00

Marine pollutant: No Environmental Pollutant: No

# 14.6. Special precautions for user

Road and Rail ( ADR-RID ):

ADR-Label: 3

ADR-Label: 3

ADR - Hazard identification number: 30 ADR-Special Provisions: 163 367 650

ADR-Transport category (Tunnel restriction code): 3 (D/E)

Air ( IATA ):

IATA-Passenger Aircraft: 355

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IATA-Cargo Aircraft: 366

IATA-Label: 3

IATA-Subsidiary hazards: -

IATA-Erg: 3L

IATA-Special Provisioning: A3 A72 A192

Sea (IMDG):

IMDG-Stowage Code: Category A

IMDG-Stowage Note: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisioning: 163 223 367 955

N/A

IMDG-EMS: F-E, S-E IMDG-MFAG: N/A

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

N.A.

#### **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) n. 2020/878

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)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP)

Regulation (EU) n. 2020/217 (ATP 14 CLP)

Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Regulation (EU) n. 2021/643 (ATP 16 CLP)

Regulation (EU) n. 2021/849 (ATP 17 CLP)

Regulation (EU) n. 2022/692 (ATP 18 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: 3, 40

Restrictions related to the substances contained: 74, 75

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

# Seveso III category according Lower-tier threshold (tonnes) Upper-tier threshold (tonnes) to Annex 1, part 1

Product belongs to category: P5c 5000 50000

Regulation (EC) No 649/2012 (PIC regulation) - Regulation (EC) 2022/643

No substances listed

German Water Hazard Class.

Class 2: hazardous for water.

SVHC Substances:

The product does not contain any SVHC in percentage greater than 0,1%.

## Dir. 2004/42/EC (VOC directive)

(ready to use)

Volatile Organic compounds - VOCs = 30.00 %

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Volatile Organic compounds - VOCs = 342.00 g/L

## Dir. 2010/75/EC (VOC directive)

Volatile Organic compounds - VOCs = 19.80 % Volatile Organic compounds - VOCs = 225.72 g/L

Content of Water (%)

0.00

Code

#### 15.2. Chemical safety assessment

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

#### **SECTION 16: Other information**

Description

| H226                          | Flammable liquid and vapour.                       |   |  |  |  |  |
|-------------------------------|--|---|--|--|--|--|
| H317                          | May cause an allergic skin reaction.               |   |  |  |  |  |
| H319                          | Causes serious eye irritation.                     | Causes serious eye irritation.  |  |  |  |  |
| H332                          | Harmful if inhaled.                                |   |  |  |  |  |
| H335                          | May cause respiratory irritation.                  |   |  |  |  |  |
| H336                          | May cause drowsiness or dizziness.                 | May cause drowsiness or dizziness.  |  |  |  |  |
| H412                          | Harmful to aquatic life with long lasting effects. |   |  |  |  |  |
|                               |  |   |  |  |  |  |
| Code                          | Hazard class and hazard category                   | Description   |  |  |  |  |
| <b>Code</b> 2.6/3             | Hazard class and hazard category<br>Flam. Liq. 3   | <b>Description</b> Flammable liquid, Category 3   |  |  |  |  |
|                               |  | •   |  |  |  |  |
| 2.6/3                         | Flam. Liq. 3                                       | Flammable liquid, Category 3  |  |  |  |  |
| 2.6/3<br>3.1/4/Inhal          | Flam. Liq. 3 Acute Tox. 4                          | Flammable liquid, Category 3 Acute toxicity (inhalation), Category 4                            |  |  |  |  |
| 2.6/3<br>3.1/4/Inhal<br>3.3/2 | Flam. Liq. 3 Acute Tox. 4 Eye Irrit. 2             | Flammable liquid, Category 3 Acute toxicity (inhalation), Category 4 Eye irritation, Category 2 |  |  |  |  |

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

| Classification according to Regulation (EC) Nr. 1272/2008 | Classification procedure |
|---|--------------------------|
| 2.6/3   | On basis of test data    |
| 3.1/4/Inhal   | Calculation method       |
| 3.3/2   | Calculation method       |
| 3.4.2/1   | Calculation method       |
| 3.8/3   | Calculation method       |
| 4.1/C3  | 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.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

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COD: Chemical Oxygen Demand COV: Volatile Organic Compound CSA: Chemical Safety Assessment CSR: Chemical Safety Report DMEL: Derived Minimal Effect Level DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive DSD: Dangerous Substances Directive EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

IC50: half maximal inhibitory concentration 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.

IRCCS: Scientific Institute for Research, Hospitalization and Health Care

KAFH: KAFH

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

LDLo: Leathal Dose Low N.A.: Not Applicable N/A: Not Applicable

N/D: Not defined/ Not available

NA: Not available

NIOSH: National Institute for Occupational Safety and Health

NOAEL: No Observed Adverse Effect Level

OSHA: Occupational Safety and Health Administration.

PBT: Persistent, Bioaccumulative and Toxic

PGK: Packaging Instruction

PNEC: Predicted No Effect Concentration.

PSG: Passengers

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.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

vPvB: Very Persistent, Very Bioaccumulative.

WGK: German Water Hazard Class.

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#### **EXPOSURE SCENARIO: 1-METHOXY-2-PROPANOL ACETATE**

Exposure scenario number: 14

Attachment to safety data sheet as per Article 31 (section 7) of (EC) 1907/2006 - REACH regulation

Identified uses of the component 1-methoxy-2-propanol acetate

CAS: 108-65-6, EC: 203-603-9, INDEX: 607-195-00-7 e Nr. REACH: 01-2119475791-29-XXXX

Product for industrial or professional use in the formulation of thinners, paints, additives, hardeners and pastes for painting products.

## **Data of substance**

Physical state at 20°C Liquid

145.8°C (1.013 hPa) Boiling point 3.56 hPa (20°C) Vapour pressure

Readily biodegradable (Method OECD 301F) Biodegradation

Company data

182905 Kg Annual amount per site Daily amount per site 778.32 Kg Yearly days of use 235 days

Duration and frequency of activity 480 min 5 days per week

20 °C Average temperature of use

Process pressure Ambient pressure Effectiveness: 70 % Local exhaust ventilation

Ventilation rate per hour

Wear chemically resistant gloves Effectiveness: 80 %

Use of substance Indoor use

Covers percentage substance in the product up to 100 % (unless Concentration of the substance in the products

stated differently).

## **Environment factors**

| Emission or release factor in water | 0%  |
|-------------------------------------|-----|
| Emission or release factor in soil  | 0%  |
| Dilution factor river               | 10  |
| Dilution factor coast               | 100 |

# Sewage treatment plant

Type of plant Municipal sewage treatment plant

Flow rate of sewage treatment plant 2000 m3/day

Sludge Treatment Disposal or recovery

### **General exposure**

Adopt good general ventilation norms, both natural by opening doors and windows, and forced ventilation using an elecrtically powered ventilation system.

Ensure that transfers of material are subject to restraining measures or suction ventilation.

Use suitable eye protection. In case of repeated exposure of the skin to the substance, wear protective gloves as per EN 374 norms.

#### 1 - Short title of Exposure Scenario: Distribution of substance

#### **Main User Groups**

SU3: Industrial uses SU22: Professional uses

### **Process categories**

PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

PROC4: Chemical production where opportunity for exposure arises

PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC15: Use as laboratory reagent

# **Environmental release categories**

ERC1: Manufacture of the substance

# 2 - Short title of Exposure Scenario 2: Formulation & (re)packing of substances and mixtures

### Main user groups

SU3: Industrial uses

#### Sector of end-use

SU10: Formulation

# **Process Categories**

PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

PROC4: Chemical production where opportunity for exposure arises

PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC15: Use as laboratory reagent

# **Environmental Release Categories**

ERC2: Formulation into mixture

# 3 - Short title of exposure scenario: Use in paints and related products

#### Main users groups

SU3: Industrial uses

#### **Process Categories**

PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC4: Chemical production where opportunity for exposure arises

PROC7: Industrial spraying

PROC10: Roller application or brushing

PROC13: Treatment of articles by dipping and pouring

PROC15: Use as laboratory reagent

# **Environmental Release Categories**

ERC5: Use at industrial site leading to inclusion into/onto article

# 4 - Short title of exposure scenario: Use in paints and related products Main user groups

SU22: Professional uses

## **Process Categories**

PROC10: Roller application or brushing

PROC11: Non industrial spraying

PROC13: Treatment of articles by dipping and pouring

PROC15: Use as laboratory reagent

PROC19: Manual activities involving hand contact

#### **Environmental Release Categories**

ERC8a: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)

Key

SU Sector of use category
PROC Process Categories

**ERC** Environmental Release Categories

Note: it is stronlgy advised against uses not covered in the exposure scenario

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Data elaboration: 05/11/2019

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#### **EXPOSURE SCENARIO: PROPYLENE CARBONATE**

**Exposure scenario number: 25** 

Attachment to safety data sheet as per Article 31 (section 7) of (EC) 1907/2006 - REACH regulation

Identified uses of the component Propylene carbonate

CAS: 108-32-7, EC: 203-572-1, INDEX: 607-194-00-1 e Nr. REACH: 01-2119537232-48-XXXX

Product for industrial or professional use in the formulation of thinners, paints, additives, hardeners and pastes for painting products.

#### **Data of substance**

Physical state at 20°C Liquid

Boiling point 242°C (1.013 hPa) Vapour pressure 0.03 hPa (20°C)

Readily biodegradable (Method OECD 301B) Biodegradation

**Company data** 

Annual amount per site 3230 Kg Daily amount per site 13.74 Kg 235 days Yearly days of use

Duration and frequency of activity 480 min 5 days per week

20 °C Average temperature of use

Process pressure Ambient pressure Local exhaust ventilation Effectiveness: 70 %

Ventilation rate per hour

Wear chemically resistant gloves Effectiveness: 80 %

Use of substance Indoor use

Covers percentage substance in the product up to 100 % (unless Concentration of the substance in the products

stated differently).

## **Environment factors**

Dimensions of receiving river 18000 m3/day

Dilution factor river 10 Dilution factor coast 100

# Sewage treatment plant

Type of plant Municipal sewage treatment plant

Flow rate of sewage treatment plant 2000 m3/day

Sludge Treatment Disposal or recovery

#### **General** exposure

Adopt good general ventilation norms, both natural by opening doors and windows, and forced ventilation using an elecrtically powered ventilation system.

Ensure that transfers of material are subject to restraining measures or suction ventilation.

Use suitable eye protection. In case of repeated exposure of the skin to the substance, wear protective gloves as per EN 374 norms.

#### 1 - Short title of Exposure Scenario: Distribution of substance

#### **Main User Groups**

SU3: Industrial uses

#### **Process categories**

PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

PROC4: Chemical production where opportunity for exposure arises

PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC15: Use as laboratory reagent

#### **Environmental release categories**

ERC1: Manufacture of the substance

## 2 - Short title of Exposure Scenario: Formulation & (re)packing of substances and mixtures

## Main user groups

SU3: Industrial uses

# Sector of end-use

SU10: Formulation

### **Process Categories**

PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

PROC4: Chemical production where opportunity for exposure arises

PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC15: Use as laboratory reagent

## **Environmental Release Categories**

ERC2: Formulation into mixture

# 3 - Short title of exposure scenario: Use in paints and related products

## Main users groups

SU3: Industrial uses

## **Process Categories**

PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC4: Chemical production where opportunity for exposure arises

PROC7: Industrial spraying

PROC10: Roller application or brushing

PROC13: Treatment of articles by dipping and pouring

## **Environmental Release Categories**

ERC4: Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

Key

**SU** Sector of use category **PROC** Process Categories

**ERC** Environmental Release Categories

Note: it is stronlgy advised against uses not covered in the exposure scenario

ICA S.p.A. - Regulatory affairs

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