



## 1 Identification

- **Product identifier**
  - *Product number* PXS5AB3
  - *Trade name:* **TANNIN BLOCKING ADD X WB**
    - *Application of the substance / the mixture* For professional use
- **Details of the supplier of the safety data sheet**
  - *Manufacturer/Supplier:*  
IVM Chemicals Srl  
Viale della Stazione 3 -27020 Parona (PV)Italy -Tel +39 038425441
  - *Information department:*  
Environmental Health and safety office  
hseoffice@ivmchemicals.com
  - *Emergency telephone number:*  
ChemTel Expert Assistance Hotline/SDS Fax Access by dialing 1-800-255-3924 or for International +1-813-248-0585.

## 2 Hazard(s) identification


- **Classification of the substance or mixture**

Skin Irritation 2 H315 Causes skin irritation.  
Eye Irritation 2A H319 Causes serious eye irritation.  
Aquatic Acute 2 H401 Toxic to aquatic life.  
Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.
- **Label elements**
  - *GHS label elements*  
The product is classified and labeled according to the Globally Harmonized System (GHS).
  - *Hazard pictograms*

GHS07 GHS09
  - *Signal word* Warning
  - *Hazard statements*  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H401 Toxic to aquatic life.  
H411 Toxic to aquatic life with long lasting effects.
  - *Precautionary statements*

P273 Avoid release to the environment.  
P280 Wear protective gloves / eye protection / face protection.  
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Classification system:**
  - *NFPA ratings (scale 0 - 4)*



Health = 2  
Fire = 1  
Reactivity = 0

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· **HMIS-ratings (scale 0 - 4)**

HEALTH	2	Health = 2
FIRE	1	Fire = 1
REACTIVITY	0	Reactivity = 0

### 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture: consisting of the following components.

· **Dangerous components:**

1314-13-2	zinc oxide ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	5-9.99%
7664-41-7	ammonia, anhydrous ⚠ Gases under Pressure - Compressed gas, H280 ⚠ Acute Toxicity - Inhalation 3, H331 ⚠ Skin Corrosion 1B, H314 ⚠ Aquatic Acute 1, H400; Aquatic Chronic 2, H411 ⚠ Flammable Gases 2, H221	2.5-4.99%

### 4 First-aid measures

· **Description of first aid measures**

· **General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

personal protective equipment for first aid responders is recommended. (please see section 8)

· **After inhalation:**

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

Take off immediately all contaminated clothing, include underwear and shoes (if necessary).

Rinse thoroughly with plenty of water for at least 20 minutes and take medical advise. If medical advise is needed have products container or label at hand.

· **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist , consult a doctor.

· **After swallowing:** Do not induce vomiting; immediately call for medical help.

· **Information for doctor:**

· **Most important symptoms and effects, both acute and delayed**

For symptoms and effects caused by substances, refer to Section 11.

· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### 5 Fire-fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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- *For safety reasons unsuitable extinguishing agents:*  
Do not use a jet water stream as it may scatter and spread fire.
- **Special hazards arising from the substance or mixture**  
In case of fire, the following can be released:  
Nitrogen oxides (NO<sub>x</sub>)  
Carbon monoxide (CO)
- **Advice for firefighters**  
Cool by spraying with water the containers to prevent product decomposition and the development of substances potentially hazardous for health and also, in the case of closed containers exposed to flames to prevent explosions.
- **Protective equipment:**  
Hardhat with visor, fireproof clothing, suitable gloves and if necessary respiratory protective device.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation  
Keep away from ignition sources
- **Environmental precautions:**  
Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to Section 13.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· <b>PAC-1:</b>		
1314-13-2	zinc oxide	10 mg/m
7664-41-7	ammonia, anhydrous	30 ppm
· <b>PAC-2:</b>		
1314-13-2	zinc oxide	15 mg/m
7664-41-7	ammonia, anhydrous	160 ppm
· <b>PAC-3:</b>		
1314-13-2	zinc oxide	2,500 mg/m
7664-41-7	ammonia, anhydrous	1,100 ppm

## 7 Handling and storage

- **Handling:**
  - **Precautions for safe handling**  
No special precautions are necessary if used correctly.  
Protect against electrostatic charges  
No special measures required.
  - **Information about protection against explosions and fires:** No special measures required.

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**· Conditions for safe storage, including any incompatibilities**
**· Storage:**
**· Requirements to be met by storerooms and receptacles:**

Observe the label precautions, the expiration date for the use, if not indicated, is from delivery date of goods.

In cases where there is no reported expiration date, it means that the product must be used within 8 months.

Take on temperature greater than 5 ° C

**· Information about storage in one common storage facility: Not required.**
**· Further information about storage conditions: Keep receptacle tightly sealed.**
**· Specific end use(s) Those typical of the product and the instructions in the data sheet if required.**

## 8 Exposure controls/personal protection

**· Additional information about design of technical systems: No further data; see item 7.**
**· Control parameters**
**· Components with limit values that require monitoring at the workplace:**

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

**7664-41-7 ammonia, anhydrous**

PEL Long-term value: 35 mg/m , 50 ppm

 REL Short-term value: 27 mg/m , 35 ppm  
 Long-term value: 18 mg/m , 25 ppm

 TLV Short-term value: 35 ppm  
 Long-term value: 25 ppm

**· Additional information:** The lists that were valid during the creation were used as basis.

**· Exposure controls**
**· Personal protective equipment:**
**· General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

**· Protection of hands:**


Protective gloves

Due to missing tests no recommendation to the glove material can be given for the product.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The glove material has to be impermeable and resistant to the product .

**· Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**· Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· Eye protection:



Tightly sealed goggles

## 9 Physical and chemical properties

### · Information on basic physical and chemical properties

#### · General Information

##### · Appearance:

###### · Form:

Fluid

###### · Color:

According to product specification

##### · Odor:

Characteristic

##### · Odor threshold:

Not determined.

#### · pH-value:

Mixture is non-polar/aprotic.

Range: 7 - 9

#### · Change in condition

##### · Melting point/Melting range:

Undetermined.

##### · Boiling point/Boiling range:

100 °C (212 °F)

#### · Flash point:

100 °C (212 °F)

#### · Flammability (solid, gaseous):

Not applicable.

#### · Ignition temperature:

630 °C (1,166 °F)

##### · Decomposition temperature:

Not determined.

#### · Auto igniting:

Product is not selfigniting.

#### · Danger of explosion:

Product does not present an explosion hazard.

#### · Explosion limits:

##### · Lower:

15 Vol %

##### · Upper:

30.2 Vol %

#### · Vapor pressure at 20 °C (68 °F):

8 hPa (6 mm Hg)

#### · Density (+/- 0,03) at 20 °C (68 °F):

1.038 g/cm (8.662 lbs/gal)

##### · Relative density

Not determined.

##### · Vapor density

Not determined.

##### · Evaporation rate

Not determined.

#### · Solubility in / Miscibility with

##### · Water:

Not miscible or difficult to mix.

#### · Partition coefficient (n-octanol/water):

Not determined.

#### · Viscosity:

##### · Dynamic:

Not determined.

##### · Kinematic at 20 °C (68 °F):

30 s (ISO 3 mm)

#### · Oxidising properties:

N.A.

#### · Solvent content:

##### · Water:

14.9 %

##### · VOC content:

54.41 %

564.8 g/l / 4.71 lb/gal

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 · **Solids content:** 27.7 %

 · **Other information (HAPS)**

None of the ingredients is listed.

 · **Other information** No further relevant information available.

## 10 Stability and reactivity

- **Reactivity** typical of the product as indicated in the data sheet
- **Chemical stability** The product is stable in normal conditions of storage and use recommended
  - **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Acids, alkalis and oxidizing agents
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

 · **Information on toxicological effects**

 · **Acute toxicity:**

 · **LD/LC50 values that are relevant for classification:**
**ATE (Acute Toxicity Estimate)**

Inhalative LC50/4 h 67,612 mg/l (mouse)

**1314-13-2 zinc oxide**

Oral LD50 15,000 mg/kg (mouse)

**7664-41-7 ammonia, anhydrous**

Oral LD50 350 mg/kg (mouse)

Inhalative LC50/4 h 2,000 mg/l (mouse)

 · **Primary irritant effect:**

 · **on the skin:** Irritant to skin and mucous membranes.

 · **on the eye:** Irritating effect.

 · **Sensitization:** No sensitizing effects known.

 · **Additional toxicological information:**

Irritant

Causes skin irritation.

Causes serious eye irritation.

 · **Carcinogenic categories**

 · **IARC (International Agency for Research on Cancer - Cl. 1 and 2)**

None of the ingredients is listed.

 · **NTP (National Toxicology Program)**

None of the ingredients is listed.

 · **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

US

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## 12 Ecological information

- **Toxicity** Toxic to aquatic life with long lasting effects.

- **Aquatic toxicity:**

### 1314-13-2 zinc oxide

EC50	0.27 mg/l (algae) 3.3 mg/l (daphnia) (48 h)
LC50 (96h)	1,793 mg/l (Fish)

- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
  - **Bioaccumulative potential** No further relevant information available.
  - **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
  - **Remark:** Toxic for fish
- **Additional ecological information:**
  - **General notes:**  
Water hazard class 2 (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.  
Also poisonous for fish and plankton in water bodies.  
Toxic for aquatic organisms
- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
  - **Recommendation:**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.  
Hand over to hazardous waste disposers.  
Dispose of contents and container in accordance with local state and federal regulations.
- **Uncleaned packagings:**
  - **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- **UN-Number**
  - **DOT, IMDG, IATA** UN3082
  - **Note** Check viscosity and flash point at section 9
- **UN proper shipping name**
  - **DOT** Environmentally hazardous substance, liquid, n.o.s. (zinc oxide)
  - **IMDG** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc oxide), MARINE POLLUTANT
  - **IATA** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc oxide)

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**· Transport hazard class(es)**

· DOT, IMDG, IATA



· Class	9 Miscellaneous dangerous substances and articles
· Label	9
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**· Packing group**

· DOT, IMDG, IATA III

**· Environmental hazards:**

Product contains environmentally hazardous substances: zinc oxide

· Marine pollutant:	Yes Symbol (fish and tree)
· Special marking (IATA):	Symbol (fish and tree)

**· Special precautions for user**

Warning: Miscellaneous dangerous substances and articles

· Hazard identification number (Kemler code):	90
· EMS Number:	F-A, S-F
· Segregation groups	Alkalis
· Stowage Category	A

**· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

**· Transport/Additional information:**

· DOT	
· Remarks:	Special marking with the symbol (fish and tree).

· IMDG

· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

**· UN "Model Regulation":**

UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ZINC OXIDE), 9, III

**15 Regulatory information**

**· Safety, health and environmental regulations/legislation specific for the substance or mixture**

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· *Various regulations*· *SARA*· *Section 355 (extremely hazardous substances):*

7664-41-7	ammonia, anhydrous	2.5-4.99%
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· *Section 313 (Specific toxic chemical listings) :*

1314-13-2	zinc oxide	5-9.99%
7664-41-7	ammonia, anhydrous	2.5-4.99%

· *TSCA (Toxic Substances Control Act):*

All components have the value ACTIVE.

· *Hazardous Air Pollutants*

None of the ingredients is listed.

· *Proposition 65*· *Chemicals known to cause cancer:*

None of the ingredients is listed.

· *Chemicals known to cause reproductive toxicity for females:*

None of the ingredients is listed.

· *Chemicals known to cause reproductive toxicity for males:*

None of the ingredients is listed.

· *Chemicals known to cause developmental toxicity:*

None of the ingredients is listed.

· *Carcinogenic categories*· *EPA (Environmental Protection Agency)*

1314-13-2	zinc oxide	D, I, II	5-9.99%
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· *TLV (Threshold Limit Value)*

None of the ingredients is listed.

· *NIOSH-Ca (National Institute for Occupational Safety and Health)*

None of the ingredients is listed.

· *National regulations:*

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** IVM Chemicals Srl
- **Contact:** See emergency phone
- **Date of preparation / last revision** 08/15/2022 / 5

· **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods  
 DOT: US Department of Transportation  
 IATA: International Air Transport Association  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 NFPA: National Fire Protection Association (USA)  
 HMIS: Hazardous Materials Identification System (USA)  
 VOC: Volatile Organic Compounds (USA, EU)

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*LC50: Lethal concentration, 50 percent*
*LD50: Lethal dose, 50 percent*
*NIOSH: National Institute for Occupational Safety*
*OSHA: Occupational Safety & Health*
*TLV: Threshold Limit Value*
*PEL: Permissible Exposure Limit*
*REL: Recommended Exposure Limit*
*Flammable Gases 2: Flammable gases . Category 2*
*Gases under Pressure - Compressed gas: Gases under pressure . Compressed gas*
*Acute Toxicity - Inhalation 3: Acute toxicity . Category 3*
*Skin Corrosion 1B: Skin corrosion/irritation . Category 1B*
*Skin Irritation 2: Skin corrosion/irritation . Category 2*
*Eye Irritation 2A: Serious eye damage/eye irritation . Category 2A*
*Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard . Category 1*
*Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard . Category 2*
*Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard . Category 1*
*Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard . Category 2*
**• Sources**
**REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL and following amendments**

Agency ECHA web site

INRS Fiche Toxicologique

IARC International agency for research on cancer

**• \* Data compared to the previous version altered.**