Conforms: GHS (rev 3)(2009)

(This Safety Data Sheet conforms to the requirements of the Hazard Communication Standard (HCS) (29 CFR 1910.1200(g)), revised in 2012.) - United States

Date of issue/ Date of revision : 02/16/2015 Date of previous issue : 00/00/0000

Version : 1.0



# SAFETY DATA SHEET

**PROCOTE ZN** 

## **Section 1. Identification**

Product name : PROCOTE ZN
Product type : Liquid (Suspension)

Product code : PYP1JL

<u>Uses</u>

**Area of application** : Professional applications

Material uses : Fertilizers.

<u>Supplier</u>

Supplier's details : Yara North America, Inc.

<u>Address</u>

Street: 100 North Tampa Street, Suite 3200

Postal code : 33602 City : TAMPA Country : United States

 Telephone number
 : +1 813 222 5700

 Fax no.
 : +1 813 875 5735

 e-mail address of person
 : yna-hesq@yara.com

responsible for this SDS

Emergency telephone number : US: Chemtrec 24-hours Emergency Response: 1-800-424-

(with hours of operation) 99

Canada: 24 Hour Emergency Service, (Canutec 613-996-

6666)

National advisory body/Poison Center

Name : The National Poisons Emergency number

**Telephone number** : 1 800 222 1222

## Section 2. Hazards identification

OSHA/HCS status : This material is not considered hazardous by the OSHA

Hazard Communication Standard (29 CFR 1910.1200).

<u>Classification and labelling have been performed following the guidelines and recommendation of GHS and the intended use.</u>

Classification of the : AQUATIC HAZARD (ACUTE) - Category 1
substance or mixture : AQUATIC HAZARD (LONG-TERM) - Category 1

**GHS label elements** 

Hazard pictograms :



Signal word : Warning

**Hazard statements** : Very toxic to aquatic life with long lasting effects.

**Precautionary statements** 

**Prevention** : Avoid release to the environment.

**Response** : Not applicable.

**Disposal**: Dispose of contents and container in accordance with all local,

regional, national and international regulations.

Hazards not otherwise

classified

None.

# Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

## **Description of necessary first aid measures**

**Eye contact**: Rinse with plenty of running water. Check for and remove any

contact lenses. Get medical attention if irritation occurs.

**Inhalation** : Avoid inhalation of vapor, spray or mist. If inhaled, remove to

fresh air. Get medical attention if you feel unwell.

**Skin contact**: Wash with soap and water. Get medical attention if irritation

develops.

**Ingestion**: Wash out mouth with water. If material has been swallowed

and the exposed person is conscious, give small quantities of water to drink. Get medical attention if adverse health effects

persist or are severe.

### Most important symptoms/effects, acute and delayed

## Potential acute health effects

Eye contact:No known significant effects or critical hazards.Inhalation:No known significant effects or critical hazards.Skin contact:No known significant effects or critical hazards.Ingestion:No known significant effects or critical hazards.

Over-exposure signs/symptoms

**Eye contact** : No specific data.

Inhalation : No specific data.

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Skin contact No specific data.

Ingestion No specific data.

## Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** 

No specific treatment.

**Protection of first-aiders** 

No action shall be taken involving any personal risk or without

suitable training.

See toxicological information (section 11)

# Section 5. Fire-fighting measures

## **Extinguishing media**

Suitable extinguishing media Unsuitable extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

None identified.

Specific hazards arising from the chemical

In a fire or if heated, a pressure increase will occur and the container may burst. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products Decomposition products may include the following materials: metal oxide/oxides

Avoid breathing dusts, vapors or fumes from burning

materials.

In case of inhalation of decomposition products in a fire,

symptoms may be delayed.

Special protective actions for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full

face-piece operated in positive pressure mode. Non-flammable.

Remark Remark None.

# Section 6. Accidental release measures

## Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency

personnel".

**Environmental precautions** 

Avoid dispersal of spilled material and runoff and contact with

Date of issue: 02/16/2015 Page:3/14 soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

## Methods and material for containment and cleaning up

Small spill

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Estop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

# Section 7. Handling and storage

## Precautions for safe handling

**Protective measures** 

: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Bund storage facilities to prevent soil and water pollution in the event of spillage.

# Section 8. Exposure controls/personal protection

#### **Control parameters**

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## **Occupational exposure limits**

None.

Appropriate engineering controls

Environmental exposure controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## **Individual protection measures**

**Hygiene measures** 

: A washing facility or water for eye and skin cleaning purposes should be present.

Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

## Skin protection

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Body protection** 

Personal protective equipment for the body should be selected based on the task being performed and the risks involved.
 Appropriate footwear and any additional skin protection

Other skin protection

measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** 

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

# Section 9. Physical and chemical properties

## **Appearance**

Physical state : Liquid [Suspension]

Color : Blue Odor : Slight

Odor threshold : Not determined.

**pH** : 8.7

Melting/freezing point: Not determined.Boiling/condensation point: Not determined.Sublimation temperature: Not determined.Flash point: Not determined.Evaporation rate: Not determined.Flammability: Non-flammable.

Lower and upper explosive

(flammable) limits
Vapor pressure

**Lower:** Not determined. **Upper:** Not determined.

Vapor pressure: Not determined.Density: 1.635 g/cm3

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Relative density : 1.9

**Solubility** : insoluble in water.

Partition coefficient: n-

octanol/water

: Not determined.

**Auto-ignition temperature** : Not determined. **Decomposition temperature** : Not determined.

Viscosity : Dynamic: Not determined. : Kinematic: Not determined.

**Explosive properties** : None. **Oxidizing properties** : None.

# Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this

product or its ingredients.

**Chemical stability** : The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous

reactions will not occur.

Conditions to avoid : Avoid contamination by any source including metals, dust and

organic materials.

**Incompatible materials** : No specific data.

**Hazardous decomposition** 

products

Under normal conditions of storage and use, hazardous

decomposition products should not be produced.

# Section 11. Toxicological information

## Information on toxicological effects

**Acute toxicity** 

**Conclusion/Summary** : No known significant effects or critical hazards.

**Irritation/Corrosion** 

Conclusion/Summary

**Skin** : No known significant effects or critical hazards.

**Eyes** : No known significant effects or critical hazards.

**Respiratory**: No known significant effects or critical hazards.

**Sensitization** 

Conclusion/Summary

Skin : No known significant effects or critical hazards.

Respiratory : No known significant effects or critical hazards.

Mutagenicity

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**Conclusion/Summary**: No known significant effects or critical hazards.

**Carcinogenicity** 

**Conclusion/Summary**: No known significant effects or critical hazards.

Reproductive toxicity

**Conclusion/Summary** : No known significant effects or critical hazards.

**Teratogenicity** 

**Conclusion/Summary**: No known significant effects or critical hazards.

## Specific target organ toxicity (single exposure)

No known significant effects or critical hazards.

## Specific target organ toxicity (repeated exposure)

No known significant effects or critical hazards.

#### **Aspiration hazard**

No known significant effects or critical hazards.

Information on the likely routes of exposure

Not available.

## Potential acute health effects

Eye contact:No known significant effects or critical hazards.Inhalation:No known significant effects or critical hazards.Skin contact:No known significant effects or critical hazards.Ingestion:No known significant effects or critical hazards.

## Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : No specific data.

**Inhalation** : No specific data.

Skin contact : No specific data.

**Ingestion** : No specific data.

## Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

#### Potential chronic health effects

**Conclusion/Summary**: No known significant effects or critical hazards.

General : No known significant effects or critical hazards.
Carcinogenicity : No known significant effects or critical hazards.

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Mutagenicity:No known significant effects or critical hazards.Teratogenicity:No known significant effects or critical hazards.Developmental effects:No known significant effects or critical hazards.Fertility effects:No known significant effects or critical hazards.

Over-exposure signs/symptoms

**Eye contact** : No specific data.

**Inhalation** : No specific data.

**Skin contact** : No specific data.

**Ingestion** : No specific data.

### Numerical measures of toxicity

**Acute toxicity estimates** 

Not available.

# **Section 12. Ecological information**

## **Toxicity**

**Conclusion/Summary**: Very toxic to aquatic life with long lasting effects.

Persistence/degradability

**Conclusion/Summary**: No known significant effects or critical hazards.

Bioaccumulative potential

**Conclusion/Summary**: No known significant effects or critical hazards.

Mobility in soil

Soil/water partition : Not available. coefficient (KOC)

**Mobility** : Not available.

Other adverse effects : No known significant effects or critical hazards.

# Section 13. Disposal considerations

#### **Product**

**Methods of disposal** : The generation of waste should be avoided or minimized

wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil,

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waterways, drains and sewers.

## United States - RCRA Acute hazardous waste "P" List:

Not listed

## United States - RCRA Toxic hazardous waste "U" List:

Not listed

# **Section 14. Transport information**

Regulation: UN Class			
14.1 UN number	3082		
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,		
	N.O.S. (zinc oxide, )		
14.3 Transport hazard class(es)	9		
	<b>1 1 1 2 2 2 2 3 3 3 3 3 3 3 3 3 3</b>		
14.4 Packing group	III		
14.5 Environmental hazards	Yes.		
14.6 Additional information Environmental hazards	: Yes.		

Regulation: IMDG			
14.1 UN number	3082		
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,		
	N.O.S. (zinc oxide, )		
14.3 Transport hazard class(es)	9		
	<b>1 1 1 2 2 2 3 3 3 3 3 3 3 3 3 3</b>		
14.4 Packing group	III		
14.5 Environmental hazards	Yes.		
14.6 Additional information			
Marine pollutant	: Yes.		
Emergency schedules (EmS)	: F-A, S-F		

Regulation: IATA			
14.1 UN number	3082		
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,		
	N.O.S. (zinc oxide, )		
14.3 Transport hazard class(es)	9		
	<b>1 1 1 2 2 2 2 3 3 3 3 4 3 3 3 3 3 3 3 3 3 3</b>		
14.4 Packing group	III		
14.5 Environmental hazards	Yes.		

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# 14.6 Additional information Marine pollutant Yes.

Regulation: DOT Classification			
14.1 UN number	3082		
14.2 UN proper shipping name	()		
14.3 Transport hazard class(es)	9		
14.4 Packing group	III		
14.5 Environmental hazards	Yes.		
14.6 Additional information			
Environmental hazards	: Yes.		
Limited quantity	: 0.00		

Regulation: TDG Class		
14.1 UN number	3082	
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,	
	N.O.S. ()	
14.3 Transport hazard class(es)	9	
14.4 Packing group	III	
14.5 Environmental hazards	Yes.	
14.6 Additional information Environmental hazards	: Yes.	

Special precautions for user

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Remark

**IMSBC** 

THIS PRODUCT IN NON-BULK PACKAGING IS A
MARINE POLLUTANT WHEN TRANSPORTED BY
VESSEL. HOWEVER, IT IS NOT DOT REGULATED
WHEN TRANSPORTED BY HIGHWAY ONLY PER 49
CFR, 171.4(c)

: Not applicable.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not available.

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# **Section 15. Regulatory information**

### **United States**

U.S. Federal regulations

: United States - TSCA 12(b) - Chemical export

notification: None of the components are listed.

United States - TSCA 4(a) - Final Test Rules: Not listed United States - TSCA 4(e) - ITC Priority list: Not listed United States - TSCA 4(a) - Proposed test rules: Not

listed

United States - TSCA 4(f) - Priority risk review: Not

listed

United States - TSCA 5(a)2 - Final significant new use

rules: Not listed

United States - TSCA 5(a)2 - Proposed significant new

use rules: Not listed

United States - TSCA 5(e) - Substances consent order:

Not listed

United States - TSCA 6 - Final risk management: Not

listed

United States - TSCA 6 - Proposed risk management:

Not listed

United States - TSCA 8(a) - Chemical risk rules: Not

listed

United States - TSCA 8(a) - Dioxin/Furane precusor:

Not listed

United States - TSCA 8(a) - Chemical Data Reporting

(CDR): Not determined

United States - TSCA 8(a) - Preliminary assessment

report (PAIR): Not listed

United States - TSCA 8(c) - Significant adverse

reaction (SAR): Not listed

United States - TSCA 8(d) - Health and safety studies:

Not listed

United States - EPA Clean water act (CWA) section 307 - Priority pollutants: Listed Zinc oxide (ZnO)

Copper, [29H,31H-phthalocyaninato(2-)-

. kappa. N29,. kappa. N30,. kappa. N31,. kappa. N32]-, (SP-4-1),. kappa. N32-1, (SP-4-1),. kappa. N32-1, (SP-4-1),. kappa. N32-1,. kappa. N

1)-

United States - EPA Clean water act (CWA) section

311 - Hazardous substances: Not listed

United States - EPA Clean air act (CAA) section 112 -

Accidental release prevention - Flammable

substances: Not listed

United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Toxic substances:

Not listed

United States - Department of commerce - Precursor

chemical: Not listed

Clean Air Act Section 112(b)

**Hazardous Air Pollutants** 

(HAPs)

Clean Air Act Section 602

**Class I Substances** 

Clean Air Act Section 602

**Class II Substances** 

**DEA List I Chemicals** 

Not listed

Not listed

Not listed

Not listed

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(Precursor Chemicals)

**DEA List II Chemicals** : Not listed

(Essential Chemicals)

SARA 302/304 Not applicable.

SARA 304 RQ : Not applicable.

**SARA 311/312** 

Classification : Not applicable.

No products were found.

**State regulations** 

**Massachusetts**: The following components are listed:

Zinc oxide (ZnO)

New York : None of the components are listed.

New Jersey : The following components are listed:

Zinc oxide (ZnO)

**Pennsylvania** : The following components are listed:

Zinc oxide (ZnO)

## California Prop. 65

This product contains a chemical (or chemicals) known to the State of California to cause cancer and birth defects or other reproductive harm.

## **International lists**

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

**China inventory (IECSC):** All components are listed or exempted. **Australia inventory (AICS):** All components are listed or exempted.

Canada inventory (DSL and NDSL): All components are listed or exempted. United States inventory (TSCA 8b): All components are listed or exempted. EC INVENTORY (EINECS/ELINCS): All components are listed or exempted.

## Section 16. Other information

### **Hazardous Material Information System (U.S.A.)**

Health	-	1
Flammability		0
Physical hazards		0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

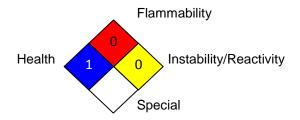
The customer is responsible for determining the PPE code for this material.

## **Chronic toxicity:**

- -: No data available.
- \*: Carcinogen, Target organs, Reproductive effects, Sensitizer to lungs

#### National Fire Protection Association (U.S.A.)

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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

#### Key to abbreviations

ADN/ADNR = European Provisions concerning the International Carriage of

Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

bw = Body weight

GHS = Globally Harmonized System of Classification and Labelling of

Chemicals

IATA = International Air Transport Association IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine

pollution)

NOHSC - National Occupational Health and Safety Commission

RID = The Regulations concerning the International Carriage of Dangerous

Goods by Rail

SUSDP - Standard for the Uniform Scheduling of Drugs and Poisons

UN = United Nations

EU REACH IUCLID5 CSR.

## References

National Institute for Occupational Safety and Health, U.S. Dept. of Health, Education, and Welfare, Reports and Memoranda Registry of Toxic Effects of Chemical

Substances.

IHS, 4777 Levy Street, St Laurent, Quebec HAR 2P9,

Canada.

## **History**

Date of printing: 02/20/2015Date of issue/Date of revision: 02/16/2015Date of previous issue: 00/00/0000

Version : 1.0

**Prepared by** : Yara Product Classifications & Regulations.

Indicates information that has changed from previously issued version.

#### **Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the

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**PROCOTE ZN** 

accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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