

# SAFETY DATA SHEET ACCORDING TO 1907/2006/EC, 453/2010/EU, 2015/830/EU (REACH)

## AG-THIACLOPRID 480 SC

Revised on / Version: 18/07/2019 / 0003  
Replaces revision of / Version: 07/03/2018 / 0002

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

- 1.1 Product Identifier**  
**Product Name** : AG-THIACLOPRID 480 SC  
**Product description** : White suspension concentrate systemic action Insecticide  
**Product Type** : Suspension Concentrate
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**  
Relevant uses: Systemic action Insecticide  
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Details of the supplier of the safety data sheet**  
Rolfes Agri (Pty) Ltd  
288 Mundt Street  
Waltloo  
Pretoria  
South Africa  
Tel: +27(0)12 803 0145  
Fax: +27(0)12 803 8418
- 1.4 Emergency telephone number**  
**National advisory body/Poison Centre**  
**Telephone number** : SOUTH AFRICA  
Griffon Poison Information Centre  
(24 Hour Poisoning Emergency Helpline)  
+27(0)82 446 8946



**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture:****CLP Regulation (EC) no 1272/2008:**

Classification of this product has been carried out in accordance with CLP Regulation (EC) no 1272/2008.

Acute Tox. 3: Acute Toxicity Oral, Category 3, H301  
 Acute Tox: 4: Acute Toxicity Inhalation, Category 4, H332  
 Carc. 2: Carcinogenicity, Category 2, H351  
 Repr. 2: Reproductive toxicity, Category 2, H361  
 Aquatic Chronic 1: Aquatic Chronic, Category 1 - H410

**2.2 Label elements****CLP Regulation (EC) no 1272/2008:****Hazard pictogram(s):**

**Signal word** : Danger

**Hazard statement(s)** : H301 - Toxic if swallowed  
 H332 - Harmful if inhaled  
 H351 - Suspected of causing cancer  
 H361 - Suspected of damaging fertility  
 H410 - Very toxic to aquatic life with long lasting effects

**Precautionary statement(s) :**

P101 - If medical advice is needed, have product container or label at hand.  
 P102 - Keep out of reach of children.  
 P103 - Read label before use.  
 P202 - Do not handle until all safety precautions have been read and understood.  
 P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P264 - Wash hands thoroughly after handling.  
 P270 - Do not eat, drink or smoke when using this product.  
 P273 - Avoid release to the environment.  
 P281 - Use personal protective equipment as required.  
 P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
 P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P308+P313 - IF exposed or concerned: Get medical advice/attention.  
 P312 - Call a POISON CENTER or doctor/physician if you feel unwell.  
 P330 - Rinse mouth.  
 P391 - Collect spillage.  
 P405 - Store locked up  
 P501 - Dispose of the contents/containers in accordance with the current legislation on waste treatment.

**2.3 Other hazards**

Non-applicable

**SECTION 3: Composition/information on ingredients****3.1 Substance:**

Non-applicable

- 3.2 Mixture:**  
**Chemical description:** Multi-constituent substance  
**Component(s):**

|                       |  |
|-----------------------|--|
| <b>Chemical Name:</b> | Thiacloprid                            |
| <b>CAS:</b>           | 111988-49-9                            |
| <b>EC:</b>            | -                                      |
| <b>Index:</b>         | -                                      |
| <b>REACH:</b>         | -                                      |
| <b>Formulation:</b>   | Thiacloprid 480 g/l (chloro-nicotinyl) |

## SECTION 4: First Aid Measures

### 4.1 Description of first aid measures

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

**By inhalation:**

Remove to fresh air. If not breathing gives artificial respiration. If breathing is difficult, give oxygen. Do NOT give mouth-to-mouth resuscitation if victim ingested or inhaled the substance. Keep person at rest and warm. Treat symptomatically and supportively as and when required. Obtain medical advice if necessary.

**By skin contact:**

Remove any contaminated clothing. Wash skin with soap or mild detergent and water for at least 15 minutes. Get medical attention if irritation develops or persists. Wash clothing before re-use.

**By eye contact:**

Immediately flush eyes with lukewarm water or saline solution for at least 15 minutes, lifting lower and upper eyelids occasionally. Check for and remove any contact lenses after 5 minutes. Get medical attention if necessary.

**By ingestion / aspiration:**

Have victim rinse mouth thoroughly with water. Give water to dilute the material if victim is alert and not convulsing. Induce vomiting immediately as directed by medical personnel. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomits, rinse mouth and administer more water. Never give anything by mouth to an unconscious person. Qualified medical personnel should perform administration of oxygen. Seek medical advice if necessary.

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

No information available.

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

**Notes to physician** : None.  
**Specific treatments** : Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Fire Extinguishing Media

**Suitable extinguishing media:**

Use carbon dioxide, sand, alcohol-resistant foam to extinguish fire. Water spray can be used for cooling of unaffected stock, but avoid water coming in contact with the product. Apply water as a fine mist or fog.

**Unsuitable extinguishing media:**

High volume water jet, (contamination risk).

## 5.2 Special hazards arising from the substance or mixture

### Hazards from the substance or mixture:

Avoid inhaling hazardous vapours and fumes from burning materials.

### Hazardous thermal decomposition products:

Burning chemicals may produce by-products more toxic than the original material.

## 5.3 Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. In the event of a fire, wear full protective clothing and self-contained breathing apparatus with full-face piece operated in the pressure demand or other positive pressure mode.

## SECTION 6: Accidental release measures

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

Wear appropriate personal protective equipment, refer to Section 8.

### 6.2 Environmental precautions:

Keep product away from drains, surface and underground water. Product is considered a Marine Pollutant.

### 6.3 Methods and materials for containment and cleaning up

#### Spills:

Absorb with sand or other non-combustible absorbent material. Fill materials taken up into closable container. To clean the floor and all objects contaminated by this material, use damp cloth. Also place used cleaning materials into closable receptacles.

#### Large Spills:

Dyke far ahead of liquid spills for later disposal. Prevent entry of the substance into waterways, sewers, basements or confined areas. To clean the floor and all objects contaminated by this material, use damp cloth. Also place used cleaning materials into closable receptacles. Prevent entry of the substance into waterways, sewers, basements or confined areas.

### 6.4 Reference to other sections:

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling:

#### A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

#### B.- Technical recommendations for the prevention of fires and explosions

Due to its non-flammable nature, the product does not present a fire risk under normal conditions of storage, manipulation and use.

#### C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

#### D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

**7.2 Conditions for safe storage, including any incompatibilities:**

A.- Technical measures for storage

Minimum Temp.: 5 °C

Maximum Temp.: 30 °C

Maximum time: 36 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

**7.3 Specific end use(s)**

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters**

| Components  | CAS-No.     | Control parameters              |
|-------------|-------------|---------------------------------|
| Thiacloprid | 111988-49-9 | 0.34 mg/m <sup>3</sup><br>(TWA) |

**8.2 Exposure controls****Appropriate engineering controls:**

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

**Individual protection measures****Hygiene measures:**

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

**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. Possible: safety glasses with side-shields

**Skin protection****Hand protection:**

Protective gloves against minor risks.

**Body protection:**

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Other skin protection:**

Appropriate footwear and any additional 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:**

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. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.

**Environmental exposure controls:**

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. No significant release into the air is expected.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

For complete information, please refer to product datasheet.

**Appearance**

|                |                                 |
|----------------|---------------------------------|
| Physical state | : Liquid Suspension Concentrate |
| Colour         | : White                         |
| Odour          | : No odour                      |

**Volatility:**

|                                       |                    |
|---------------------------------------|--------------------|
| Boiling point at atmospheric pressure | : Non-applicable * |
| Vapour pressure at 20 °C              | : Non-applicable * |
| Vapour pressure at 50 °C              | : Non-applicable * |
| Evaporation rate at 20 °C             | : Non-applicable * |

**Product description:**

|   |                           |
|---|---------------------------|
| Density at 20 °C                            | : 1.15                    |
| Relative density at 20 °C                   | : Non-applicable *        |
| Dynamic viscosity at 20 °C                  | : Non-applicable *        |
| Kinematic viscosity at 20 °C                | : Non-applicable *        |
| Kinematic viscosity at 40 °C                | : Non-applicable *        |
| pH  | : 7.1                     |
| Vapour density at 20 °C                     | : Non-applicable *        |
| Partition coefficient n-octanol/water 20 °C | : Non-applicable *        |
| Solubility in water at 20 °C                | : Miscible in water       |
| Solubility properties                       | : Non-applicable *        |
| Decomposition temperature                   | : Non-applicable *        |
| Melting point/freezing point                | : > 100 °C                |
| Explosive properties                        | : No explosive properties |
| Oxidising properties                        | : Non-applicable *        |

**Flammability:**

|                          |                    |
|--------------------------|--------------------|
| Flash point              | : Non-applicable * |
| Autoignition temperature | : Non-applicable * |
| Lower flammability limit | : Non-applicable * |
| Upper flammability limit | : Non-applicable * |

\*Not relevant due to the nature of the product, not providing information property of its hazards.

**9.2 Other information**

No additional information.

**SECTION 10: Stability and reactivity****10.1 Reactivity:**

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

**10.2 Chemical stability:**

Chemically stable under the conditions of storage, handling and use.

**10.3 Possibility of hazardous reactions:**

Will not occur.

**10.4 Conditions to avoid:**

Applicable for handling and storage at room temperature:

| Shock and friction | Contact with air | Increase in temperature          | Sunlight       | Humidity       |
|--------------------|------------------|----------------------------------|----------------|----------------|
| Not applicable     | Not applicable   | Avoid heat extremes and freezing | Not applicable | Not applicable |

**10.5 Incompatible materials:**

| Acids          | Water          | Combustive materials | Combustible materials | Others                  |
|----------------|----------------|----------------------|-----------------------|-------------------------|
| Not applicable | Not applicable | Not applicable       | Not applicable        | Avoid acids and alkalis |

**10.6 Hazardous decomposition products:**

Hydrogen chloride, hydrogen cyanide, carbon monoxide, sulphur dioxide and nitrogen oxides.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects**

*(Applicable for the active ingredient)*

Acute oral LD<sub>50</sub> (rat) 300 - 500 mg/kg

Acute dermal LD<sub>50</sub> (rat) > 4 000 mg/kg

Inhalation LC<sub>50</sub> (rat) 2.2 mg/l/4 hr (as an aerosol)

**Dangerous health implications:**

Toxicity to humans and animals.

A.- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are met, as it does contain substances classified as dangerous for this effect. Refer to Section 2.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect.

B- Inhalation (acute effect):

- Acute toxicity: Based on available data, the classification criteria are met, as it does contain substances classified as dangerous for this effect. Refer to Section 2.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect.

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Based on available data, the classification criteria are met, as it does contain substances classified as dangerous for this effect. Refer to Section 2.
- Contact with the eyes: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are met, as it does contain substances classified as dangerous for this effect. Refer to Section 2.
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect.
- Reproductive toxicity: Based on available data, the classification criteria are met, as it does contain substances classified as dangerous for this effect. Refer to Section 2.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects.
- Cutaneous: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect.

F- Specific target organ toxicity (STOT)-time exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect.

- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect.

H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect.

## SECTION 12: Ecological information

The experimental information related to the eco-toxicological properties of the product itself is not available.

### 12.1 Toxicity:

LC50 (*Lepomis macrochirus* (Bluegill sunfish)) 80.7 mg/l Exposure time: 96 h

LC50 (*Chironomus riparius* (non-biting midge)) 0.032 mg/l Exposure time: 24 h

EC50 (*Hyalella azteca* (Scud)) 0.0245 mg/l Exposure time: 96 h (The value mentioned relates to the active ingredient thiacloprid)

EC50 (*Daphnia magna* (Water flea))  $\geq$  85.1 mg/l Exposure time: 48 h (The value mentioned relates to the active ingredient thiacloprid)

IC50 (*Desmodesmus subspicatus* (green algae)) 96.7 mg/l Growth rate; Exposure time: 72 h (The value mentioned relates to the active ingredient)

LD50 (*Coturnix japonica* (Japanese quail)) 49 mg/kg (The value mentioned relates to the active ingredient thiacloprid)

LD50 (*Colinus virginianus* (Bobwhite quail)) 2,716 mg/kg (The value mentioned relates to the active ingredient thiacloprid)

#### Summary:

Toxic to fish, aquatic invertebrates, aquatic plants and other organisms.

### 12.2 Persistence and degradability:

Not rapidly biodegradable

KOC: Thiacloprid: 615

### 12.3 Bioaccumulative potential: Does not bioaccumulate

### 12.4 Mobility in soil: Slightly mobile in soils

### 12.5 Results of PBT and vPvB assessment: No data available.

### 12.6 Other adverse effects: No data available.

## SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 13.1 Waste treatment methods

#### Product

#### Methods of disposal:

The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. 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.



**Hazardous waste:**

Non-hazardous waste.









**Packaging****Methods of disposal:**

The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions:**

This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

**SECTION 14: Transport information**

|  | Land transport<br>(ADR/RID)  | Inland waterway<br>transport<br>(AND/ADNR)   | Sea Transport<br>(IMDG)   | Air transport<br>(ICAO-TI / IATA-<br>DGR)  |
|--|--|--|---|--|
| 14.1 UN Number   | 2902   | 2902   | 2811<br>2902  | 2902   |
| 14.2 UN proper<br>shipping name  | Pesticide, Liquid,<br>Toxic, N.O.S.<br>(Contains<br>Thiacloprid)                           | Pesticide, Liquid,<br>Toxic, N.O.S.<br>(Contains<br>Thiacloprid)                           | Pesticide, Liquid,<br>Toxic, N.O.S.<br>(Contains<br>Thiacloprid)                            | Pesticide, Liquid,<br>Toxic, N.O.S.<br>(Contains<br>Thiacloprid)                             |
| 14.3 Transport<br>hazard class(es)   | 6.1<br> | 6.1<br> | 6.1<br> | 6.1<br> |
| 14.4 Packing group   | III  | III  | III   | III  |
| 14.5 Environmental<br>hazards  | Yes<br> | Yes<br> | Yes<br> | Yes<br> |
| 14.6 Special<br>precautions for user   | Not available.   | Not available.   | Not available.  | Not available.   |
| 14.7 Transport in<br>bulk according<br>to Annex II of<br>Marpol and<br>the IBC Code: | Non-applicable   | Non-applicable   | Non-applicable  | Non-applicable   |

**SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**  
 Candidate substances for authorisation under the Regulation (EC) 1907/2006 (REACH): Non-applicable  
 Regulation (EC) 1005/2009, about substances that deplete the ozone layer: Non-applicable  
 Active substances not included in Annex I under Regulation (EU) No 528/2012: Non-applicable  
 REGULATION (EU) No 689/2012, in relation to the import and export of hazardous chemical products:  
 Non-applicable

**Limitations to commercialisation and the use of certain dangerous substances and mixtures  
(Annex XVII REACH, etc ....):**  
 Non-applicable

**Other legislation:**

Law No.360 / 2003 on the dangerous substances and preparations

Law nr.349 / 2007 regarding the reorganization of the institutional framework for chemicals management

Law no.249 / 2011 to amend article 4 of Law nr.349 / 2007 on the reorganization of the institutional framework chemicals management

Government Decision no. 477/2009 on the establishment of penalties for infringements of the provisions of Regulation (EC) No. 1.907 / 2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45 / EC and repealing Regulation (EEC) No. 793/93 and Regulation (EC) no. 1.488 / 94 Commission and Council Directive 76/769 / EEC and Directives 91/155 / EEC, 93/67 / EEC, 93/105 / EC and 2000/21 / EC Commission Law no.254 / 2011 amending article 26 of Law No.360 / 2003 on the preparations and substances dangerous GD nr.662 / 2011 repealing Government Decision no. 347/2003 regarding restrictions on the marketing and use of certain dangerous substances and preparations.

Emergency Ordinance no.60 / 2013 for completing art. 4 para. (1) of Law no. 349/2007 on the reorganization framework institutional management of chemicals GD Nr.1408 / 2008 and Annexes 1-6 on classification, packaging and labeling of dangerous substances GD nr.937 / 2010 and Annexes 1 to 5 on the classification, packaging and labeling in the marketing of dangerous preparations

GD no.122 / 2010 on the penalties applicable to infringements of the provisions of Regulation (EC) no.1272 / 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548 / EEC and 1999/45 / EC, and amending Regulation (EC) no.1907 / 2006 GD no.398 / 2010 establishing measures to enforce the provisions of Regulation (EC) nr.1272 / 2008 on classification, labeling and packaging of substances and mixtures.

Decision no. 1218/2006 establishing minimum safety requirements for ensuring occupational health and protection workers from risks related to chemical agents.

Law no. 319/2006 - Law on safety and health at work

GD 621/2005 on the management of packaging and packaging waste.

GD 1872/2006 amending and supplementing Government Decision 621/2005 on the management of packaging and packaging waste

The Waste Regulations 2011, 2011 No. 988.

**Specific provisions in terms of protecting people or the environment:**

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

**15.2 Chemical Safety Assessment:**

The supplier has not carried out evaluation of chemical safety.

**SECTION 16: Other information****Legislation related to safety data sheets:**

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) N° 1907/2006 (Regulation (EU) N° 453/2010, Regulation (EC) N° 2015/830)

**Modifications related to the previous security card which concerns the ways of managing risks. :**

Non-applicable

**Texts of the legislative phrases mentioned in section 2:**

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3.

**Texts of the legislative phrases mentioned in section 3:**

Non-applicable

**CLP Regulation (EC) n° 1272/2008:**

Acute Tox. 3: Acute Toxicity Oral, Category 3, H301

Acute Tox: 4: Acute Toxicity Inhalation, Category 4, H332

Carc. 2: Carcinogenicity, Category 2, H351

Repr. 2: Reproductive toxicity, Category 2, H361  
Aquatic Chronic 1: Aquatic Chronic, Category 1 - H410

**Classification procedure:**

Non-applicable

**Advice related to training:**

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

**Principal bibliographical sources:**

<http://esis.jrc.ec.europa.eu>

<http://echa.europa.eu>

<http://eur-lex.europa.eu>

**Relevant P-, H- and EUH-phrases (number and full text)**

H301 - Toxic if swallowed

H332 - Harmful if inhaled

H351 - Suspected of causing cancer

H361 - Suspected of damaging fertility

H410 - Very toxic to aquatic life with long lasting effects

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P103 - Read label before use.

P202 - Do not handle until all safety precautions have been read and understood.

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

P264 - Wash hands thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P273 - Avoid release to the environment.

P281 - Use personal protective equipment as required.

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P308+P313 - IF exposed or concerned: Get medical advice/attention.

P312 - Call a POISON CENTER or doctor/physician if you feel unwell.

P330 - Rinse mouth.

P391 - Collect spillage.

P405 - Store locked up

P501 - Dispose of the contents/containers in accordance with the current legislation on waste treatment.

**Abbreviations and acronyms:**

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5-day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

CL50: Lethal Concentration 50

EC50: Effective concentration 50

Log-POW: Octanol–water partition coefficient

KOC: PARTITION COEFFICIENT OF ORGANIC CARBON

**Date of revision** : 18/07/2019

**Version** : 3

**Notice to reader**

**DISCLAIMER AND LIMITATION OF LIABILITY**

The information and recommendations contained in this Safety Data Sheet ("SDS") relate only to the specific material referred to herein (the "Material") and do not relate to the use of such Material in combination with any other material or process. The information and recommendations contained herein are believed to be current and correct as of the date of this SDS. HOWEVER, THE INFORMATION AND RECOMMENDATIONS ARE PRESENTED WITHOUT WARRANTY, REPRESENTATION OR LICENSE OF ANY KIND, EXPRESS OR IMPLIED, WITH RESPECT TO THEIR ACCURACY, CORRECTNESS OR COMPLETENESS, AND THE SELLER, SUPPLIER AND MANUFACTURER OF THE MATERIAL AND THEIR RESPECTIVE AFFILIATES (COLLECTIVELY, THE "SUPPLIER") DISCLAIM ALL LIABILITY FOR RELIANCE ON SUCH INFORMATION AND RECOMMENDATIONS.

This SDS is not a guarantee of safety. A buyer or user of the Material (a "Recipient") is responsible for ensuring that it has all current information necessary to safely use the Material for its specific purpose.