

# SAFETY DATA SHEET

## PHOSLITE™ B631C

### Section 1. Identification

**Product identifier** : PHOSLITE™ B631C  
**Chemical name** : PHOSLITE™ B631C  
**Other means of identification** : Not applicable  
**Product type** : solid

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

##### Identified uses

Formulation and (re)packing of substances and mixtures  
 Manufacture of plastics products

##### Uses advised against

**Reason** : The supplier has no experience or data on this use.

**Supplier's details** : Italmatch Chemicals Spa

via S. Tommaso 13  
 Spoleto (PG)  
 Italy  
 06049  
 +39 0743 20191

**Emergency telephone number (with hours of operation)** : Monday - Friday (9.00 - 17.00)  
 For Chemical Emergency Spill, Leak, Fire, Exposure or Accident Call  
 CHEMTREC Day or Night:  
 National contact  
 +1-800-424-9300  
 International Emergency Telephone number: +1-703-527-3887 (call collect)

### Section 2. Hazards identification

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture** : ACUTE TOXICITY (ORAL) - Category 4  
 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1  
 SKIN SENSITIZATION - Category 1

#### GHS label elements

**Hazard pictograms**

:

**Signal word**

:

Danger

**Hazard statements**

:

Harmful if swallowed.

Causes serious eye damage.

May cause an allergic skin reaction.

**Precautionary statements****General**

:

Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

**Prevention**

:

Wear protective gloves. Avoid breathing dust. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

**Response**

:

IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Continue rinsing.

**Storage**

:

Not applicable.

**Disposal**

:

Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Hazards not otherwise classified**

:

Explosive in the presence of the following materials or conditions: oxidizing materials Hazardous combustion products: HBr Phosphorus pentoxide (Corrosive gas)

<b>Section 3. Composition/information on ingredients</b>
--

**Substance/mixture**

:

Mixture

**Chemical name**

:

PHOSLITE™ B631C

**Other means of identification**

:

Not applicable

**CAS number/other identifiers****Product code**

:

1001839, 1001841, 1001897, 1001898, 1001895, 1001894, 1001844, 1001896, 1001899, 1001842, 1001840, 1001843

Ingredient name	%	CAS number
Phosphinic acid, calcium salt (2:1)	60	7789-79-9
Benzene, 1,1'-(1,1,2,2-tetramethyl-1,2-ethanediyl)bis-	10	1889-67-4

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

**There are no additional ingredients present which, within the current knowledge of the supplier and in the**

Version: 2.1

Date of issue/Date of revision: 01/14/2019

Date of previous issue: 10/23/2017

concentrations applicable, are classified as hazardous to health or the environment 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

- |                     |   |  |
|---------------------|---|--|
| <b>Eye contact</b>  | : | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.  |
| <b>Inhalation</b>   | : | Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of inhalation of combustion or decomposition fumes: bring the exposed person to fresh air and get medical aid immediately. Get medical attention if symptoms occur.                                   |
| <b>Skin contact</b> | : | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. In case of burns, immediately cool affected skin with cold water. May cause skin sensitization. In the event of any complaints or symptoms, avoid further exposure. |
| <b>Ingestion</b>    | : | Get medical attention immediately. Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Do not induce vomiting unless directed to do so by medical personnel.   |

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

#### Potential acute health effects

- |                     |   |   |
|---------------------|---|---|
| <b>Eye contact</b>  | : | Causes serious eye damage.  |
| <b>Inhalation</b>   | : | May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system. |
| <b>Skin contact</b> | : | May cause an allergic skin reaction.  |
| <b>Ingestion</b>    | : | Harmful if swallowed. May cause burns to mouth, throat and stomach.                             |

#### Over-exposure signs/symptoms

- |                     |   |  |
|---------------------|---|--|
| <b>Eye contact</b>  | : | Adverse symptoms may include the following:<br>pain or irritation<br>watering<br>redness |
| <b>Inhalation</b>   | : | No specific data.  |
| <b>Skin contact</b> | : | No specific data.  |
| <b>Ingestion</b>    | : | No specific data.  |

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

- |                           |   |   |
|---------------------------|---|---|
| <b>Notes to physician</b> | : | 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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

- Suitable extinguishing media** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam. Dry sand or other suitable absorbent.
- Unsuitable extinguishing media** : Do not use water jet.
- Specific hazards arising from the chemical** : May cause fire or explosion.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
Phosphorus pentoxide  
HBr
- 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. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- 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.
- Remark** : Non-flammable.
- Remark** : Not applicable.

## 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. Put on appropriate personal protective equipment. Shut off all ignition sources. Avoid shock and friction. Use non-sparking tools.
- 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 soil,

waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

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

- |                    |   |  |
|--------------------|---|--|
| <b>Small spill</b> | : | Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Eliminate all ignition sources.  |
| <b>Large spill</b> | : | Move containers from spill area. Eliminate all ignition sources. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal. |

## **Section 7. Handling and storage**

### **Precautions for safe handling**

- |   |   |  |
|---|---|--|
| <b>Protective measures</b>  | : | Put on appropriate personal protective equipment (see section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Fine dust clouds may form explosive mixtures with air. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container. |
| <b>Advice on general occupational hygiene</b>                       | : | 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.  |
| <b>Conditions for safe storage, including any incompatibilities</b> | : | Store in a cool, well-ventilated area away from incompatible materials and ignition sources. Eliminate all ignition sources. Separate from oxidizing materials. 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.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

None.

- Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits. Use local exhaust ventilation or handle in a ventilated enclosure.
- Environmental exposure controls** : 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** : 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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Wear chemical-resistant safety glasses.

#### 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** : Wear fire/flammable resistant/retardant clothing.
- Other skin protection** : Operators should wear antistatic footwear and clothing and floors should be of the conducting type.
- Respiratory protection** : Use a properly fitted, particulate filter 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**

<b>Physical state</b>	:	solid [SOLID WHITE POWDER]
<b>Color</b>	:	White.
<b>Odor</b>	:	Not determined.
<b>Odor threshold</b>	:	Not available.
<b>pH</b>	:	Not applicable
<b>Melting point</b>	:	Not applicable.
<b>Boiling point</b>	:	Not applicable
<b>Flash point</b>	:	Not applicable.
<b>Fire point</b>	:	Not available.
<b>Evaporation rate</b>	:	Not applicable.
<b>Flammability (solid, gas)</b>	:	Non-flammable.
<b>Lower and upper explosive (flammable) limits</b>	:	<b>Lower:</b> Not available. <b>Upper:</b> Not applicable.
<b>Vapor pressure</b>	:	Not applicable.
<b>Vapor density</b>	:	Not applicable.
<b>Relative density</b>	:	440
<b>Solubility</b>	:	Not available.
<b>Solubility in water</b>	:	Not applicable.
<b>Partition coefficient: n-octanol/water</b>	:	Not applicable.
<b>Auto-ignition temperature</b>	:	Not applicable.
<b>Decomposition temperature</b>	:	Not available.
<b>Viscosity</b>	:	<b>Dynamic:</b> Not applicable.  <b>Kinematic:</b> Not applicable.
<b>Burning time</b>	:	Not applicable

**Section 10. Stability and reactivity**

<b>Reactivity</b>	:	No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	:	The product is stable.
<b>Possibility of hazardous reactions</b>	:	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	:	Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame).
<b>Incompatible materials</b>	:	No specific data.
<b>Hazardous decomposition products</b>	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced., Products of combustion, Phosphorus pentoxide, HBr

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Phosphinic acid, calcium salt (2:1)				
	LD50 Oral	Rat	< 2,000 mg/kg	-
Benzene, 1,1'-(1,1,2,2-tetramethyl-1,2-ethanediyl)bis-				
	LD50 Oral	Rat	> 5,000 mg/kg	-

**Conclusion/Summary** : Harmful if swallowed.

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Phosphinic acid, calcium salt (2:1)	Skin - Erythema/Eschar 404 Acute Dermal Irritation/Corrosion	Rabbit	0 - 1	4 hrs	72 hrs
	Skin - Edema 404 Acute Dermal Irritation/Corrosion	Rabbit	0	4 hrs	72 hrs
	Eyes - Redness of the conjunctivae 405 Acute Eye Irritation/Corrosion	Rabbit	1.2		72 hrs
	Eyes - Edema of the conjunctivae 405 Acute Eye Irritation/Corrosion	Rabbit	0.33		72 hrs



	Eyes - Cornea opacity 405 Acute Eye Irritation/Corrosion	Rabbit	0		72 hrs
	Eyes - Iris lesion 405 Acute Eye Irritation/Corrosion	Rabbit	0 - 1		72 hrs

**Conclusion/Summary**

**Skin** : Conclusive but not sufficient for classification.  
**Eyes** : Causes serious eye damage.  
**Respiratory** : Conclusive but not sufficient for classification.

**Sensitization**

Product/ingredient name	Route of exposure	Species	Result
Phosphinic acid, calcium salt (2:1)	Skin	Guinea pig	Not sensitizing 406 Skin Sensitization
Benzene, 1,1'-(1,1,2,2-tetramethyl-1,2-ethanediyl)bis-	Skin	-	Sensitizing

**Conclusion/Summary**

**Skin** : May cause an allergic skin reaction.  
**Respiratory** : Conclusive but not sufficient for classification.

**Mutagenicity**

Product/ingredient name	Test	Experiment	Result
Phosphinic acid, calcium salt (2:1)	471 Bacterial Reverse Mutation Test	Subject: Bacteria Metabolic activation: with and without Experiment: In vitro	Negative
	473 In vitro Mammalian Chromosomal Aberration Test	Subject: Mammalian-Animal Metabolic activation: with and without Experiment: In vitro	Negative
	474 Mammalian Erythrocyte Micronucleus Test	Subject: Mouse Experiment: In vivo	Negative

**Conclusion/Summary** : Conclusive but not sufficient for classification.

**Carcinogenicity**

**Conclusion/Summary** : Conclusive but not sufficient for classification.

**Reproductive toxicity**

Version: 2.1

Date of issue/Date of revision: 01/14/2019

Date of previous issue: 10/23/2017

**Conclusion/Summary** : Conclusive but not sufficient for classification.

### **Teratogenicity**

Product/ingredient name	Result	Species	Dose	Exposure
Phosphinic acid, calcium salt (2:1)	Negative - Oral 421 Reproduction/Developmental Toxicity Screening Test	Rat	-	-

**Conclusion/Summary** : Conclusive but not sufficient for classification.

### **Specific target organ toxicity (single exposure)**

Not available.

### **Specific target organ toxicity (repeated exposure)**

Not available.

### **Aspiration hazard**

Not available.

**Information on the likely routes of exposure** : Not available.

### **Potential acute health effects**

**Eye contact** : Causes serious eye damage.  
**Inhalation** : May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.  
**Skin contact** : May cause an allergic skin reaction.  
**Ingestion** : Harmful if swallowed., May cause burns to mouth, throat and stomach.

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

**Eye contact** : Adverse symptoms may include the following:  
 pain or irritation  
 watering  
 redness  
**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 applicable.

Version: 2.1

Date of issue/Date of revision: 01/14/2019

Date of previous issue: 10/23/2017

**Potential delayed effects** : Conclusive but not sufficient for classification.

#### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : No known significant effects or critical hazards.

#### Potential chronic health effects

**Conclusion/Summary** : Conclusive but not sufficient for classification.

**General** : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

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

**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.

#### Numerical measures of toxicity

##### Acute toxicity estimates

Not available.

**Other information** : Not applicable.

## **Section 12. Ecological information**

### Toxicity

Product/ingredient name	Result	Species	Exposure
Phosphinic acid, calcium salt (2:1)			
	Acute EC50 > 100 mg/l Fresh water 202 Daphnia sp. Acute Immobilization Test and Reproduction Test	Daphnia magna	48 h
Benzene, 1,1'-(1,1,2,2-tetramethyl-1,2-ethanediyl)bis-			
	Acute LC50 > 1,000 mg/l Fresh water	Zebra danio	96 h

**Conclusion/Summary** : Not available.

**Persistence and degradability**

**Conclusion/Summary** : Conclusive but not sufficient for classification.

**Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Benzene, 1,1'-(1,1,2,2-tetramethyl-1,2-ethanediyl)bis-	> 6.5	-	high

**Mobility in soil**

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

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

<b>Section 13. Disposal considerations</b>
--

**Disposal methods** : 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 packaging should be recycled. The generation of waste should be avoided or minimized wherever possible.

<b>Section 14. Transport information</b>
--

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	IATA
<b>UN number</b>	-	-	-	-	-	-
<b>UN proper shipping name</b>	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
<b>Transport hazard class(es)</b>	Not available.	Not available.	Not available.	Not available.	Not available.	Not available.
<b>Packing group</b>	-	-	-	-	-	-

Environmental hazards	No.	No.	No.	No.	No.	No.
Additional information	-	-	-	<b>Tunnel code:</b> -	<b>Emergency schedules (EmS):</b> -	-

**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.

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

**Proper shipping name** : Not applicable

## Section 15. Regulatory information

**U.S. Federal regulations** : TSCA 8(a) IUR: Not determined

**Clean Air Act Section 112(b)** : Not listed

**Hazardous Air Pollutants (HAPs)**

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

### SARA 302/304

#### Composition/information on ingredients

No products were found.

**SARA 304 RQ** : Not applicable.

### SARA 311/312

**Classification** : Immediate (acute) health hazard

#### Composition/information on ingredients

Name	%	Classification
------	---	----------------

**State regulations**

**Massachusetts** : None of the components are listed.

**New York** : None of the components are listed.

**New Jersey** : None of the components are listed.

**Pennsylvania** : None of the components are listed.

**California Prop. 65**

Not available.

**International regulations****Chemical Weapon Convention List Schedules I, II & III Chemicals****Chemical Weapons Convention List Schedule I Chemicals**

None of the components are listed.

**Chemical Weapons Convention List Schedule II Chemicals**

None of the components are listed.

**Chemical Weapons Convention List Schedule III Chemicals**

None of the components are listed.

**Montreal Protocol (Annexes A, B, C, E)**

None of the components are listed.

**Stockholm Convention on Persistent Organic Pollutants****Annex A - Elimination - Production**

None of the components are listed.

**Annex A - Elimination - Use**

None of the components are listed.

**Annex B - Restriction - Production**

None of the components are listed.

**Annex B - Restriction - Use**

None of the components are listed.

**Annex C - Unintentional - Production**

None of the components are listed.

**Rotterdam Convention on Prior Inform Consent (PIC)**

None of the components are listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals**

Version: 2.1

Date of issue/Date of revision: 01/14/2019

Date of previous issue: 10/23/2017

**Heavy metals - Annex 1**

None of the components are listed.

**POPs - Annex 1 - Production**

None of the components are listed.

**POPs - Annex 1 - Use**

None of the components are listed.

**POPs - Annex 2**

None of the components are listed.

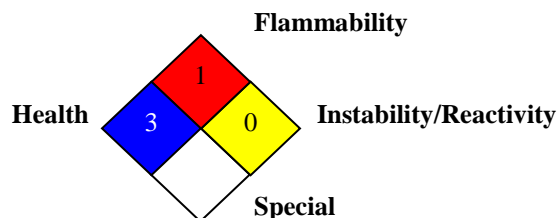
**POPs - Annex 3**

None of the components are listed.

**Inventory list**

Australia	:	Not determined.
Canada	:	Not determined.
China	:	Not determined.
Europe	:	All components are listed or exempted.
Japan	:	<b>Japan inventory (ENCS):</b> Not determined. <b>Japan inventory (ISHL):</b> Not determined.
Malaysia	:	Not determined.
New Zealand	:	Not determined.
Philippines	:	Not determined.
Republic of Korea	:	Not determined.
Taiwan	:	All components are listed or exempted.
Turkey	:	Not determined.
United States	:	All components are listed or exempted.

## Section 16. Other information

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

Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted

Version: 2.1

Date of issue/Date of revision: 01/14/2019

Date of previous issue: 10/23/2017

material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

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.

#### Procedure used to derive the classification

Classification	Justification
ACUTE TOXICITY (ORAL) - Category 4	Expert judgment
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1	Expert judgment
SKIN SENSITIZATION - Category 1	Expert judgment

#### History

Date of printing	: 02/21/2014
Date of issue/Date of revision	: 01/14/2019
Date of previous issue	: 10/23/2017
Version	: 2.1
Prepared by	: MALATESTAR
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor 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) UN = United Nations
References	: Not available.

#### 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 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.