GOLDGUARD IMP

1. IDENTIFICATION:

Product's name:	Goldguard IMP
Product code:	03023
Main recommended uses for the substance or mixture	Industrial USE.
Business Name:	Golden Technology Ltda.
Address:	Avenida Heubach, 1000 – Vista Alegre – Potim – SP.
Telephone for contact:	+55 (12) 3112-6900.
Emergency telephone number:	+55 (11) 99454-1744.
Site	www.goldentecnologia.com
E-mail:	qualidade@goldentecnologia.com

2. HAZARDS IDENTIFICATION:

Substance or mixture rating:	Product not rated as hazardous according to GHS and ISO 11014:2009.
GHS label elements, including precautionary statements:	**- Precautionary statements:** **Prevention:** P201 – Obtain special instructions before use. P202 – Do not handle the product before you read and understand all precautions. P280 – Wear protective gloves / protective clothing / eye protection / face protection. **Emergency response:** P312 – If you feel unwell, contact an INFORMATION POISON CENTER / physician. P305 + P351 + P338 – IN CASE OF EYE CONTACT: Rinse thoroughly with water for several minutes. In case of contact lenses, remove them, if it is easy. Continue rinsing. **Storage:** Not required **Disposal:** P501 – Dispose of contents or container in co-processing or incineration. **- Word of warning:** Not applicable.
Other hazards which do not result in a rating:	Not applicable.

3. COMPOSITION AND INFORMATION ABOUT INGREDIENTS:

type of product:	Mixture.
Ingredients or impurities contributing to hazard:	It has no ingredients that contribute to the hazard.

4. FIRST AID MEASURES:

First Aid Measures:	**- Inhalation:** In case of inhalation there can be irritation. Seek medical advice. **- Skin contact**: Wash with soap and water in abundance for at least 15 minutes **- Eye Contact:** Wash with plenty of water for at least 15 minutes. **- Ingestion:** do not induce vomiting unless directed to do so by a physician.
Most important symptoms and effects, both acute and delayed:	Side effects to health from the use of the product are not are expected. If symptoms appear with handling, seek medical assistance with this card in hand.
Notes to physician:	Symptomatic treatment.

5. FIRE FIGHTING MEASURES:

Extinguishing Media:	In case of fire, use water mist, dry chemical, carbon dioxide, or regular foam.
Specific hazards relating to measures:	The product is not flammable. In case of fire, the combustion products may produce sulfur dioxide and carbon monoxide.
fire-fighting team protective measures:	Use self-contained breathing apparatus with positive pressure and protective clothing. Usual clothes firefighting offer limited protection; they are not effective in cases of contact with the product.

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6. ACCIDENTAL RELEASE CONTROL MEASURES:

Personal precautions, protective equipment and emergency procedures:	- **For people who are not part of the emergency services**: Keep unauthorized persons away. - **For emergency service personnel**: Use personal protective equipment as indicated in Section 8. Wash contaminated clothing.
Environmental precautions:	Avoid that the product reaches the soil and waterways. Notify the relevant authorities if the product reaches drainage systems or water courses or contaminate soil or vegetation.
Methods and materials for containment and cleaning up:	Absorb the spilled material and transfer it to suitable containers for recovery or disposal. Cleaning contaminated area can be done with water.

7. HANDLING AND STORAGE:

Precautions for safe handling:	Always use personal protective equipment, according to Section 8. Avoid incompatible materials as in Section 10. Avoid any unnecessary exposure. Handle in accordance with good industrial hygiene and safety guidelines.
Conditions for safe storage including any incompatibilities:	Keep away from heat and protected from direct sunlight. Keep the container closed when not in use. Avoid high temperature variations. Store at room temperature. Stable product in places with a temperature between 0 ° C to 70 ° C

8. EXPOSURE CONTROL AND PERSONAL PROTECTION:

Control parameters:	**- Occupational exposure limits:** ND.
Engineering control measures:	Indoors, use general local ventilation system or exhaust. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Personal protective measures:	**- Eye / Face Protection:** Safety glasses. **- Skin protection:** Gloves of nitrile or butyl rubber, safety boots. **- Respiratory protection:** In case of poor ventilation, use breathing apparatus or supplied air mask for organic fumes. - Thermal protection: NA.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Aspects:	Milky liquid in slightly yellowish.
Odor:	Characteristic.
pH (sol. 10 % w/w):	4.0 – 5.0
Melting point/ Freezing point:	ND.
Initial boiling point and boiling range: (760 mmHg):	ND.
Flash Point (Method: Closed Cup):	ND.
Evaporation rate: (N-Butyl Acetate = 1):	ND.
Inflammability:	ND.
lower / upper flammability limit or explosiveness:	ND.
Steam Pressure:	ND.
Vapor Density:	ND.
Relative density (25°C):	< 1.0 g/cm³
Solubility (sol. 10 % w/w):	Soluble at 25°C, under stirring.
Partition coefficient - n - octanol / water:	ND.
Auto-ignition temperature:	ND.
Decomposition Temperature:	ND.
Viscosity (25ºC):	< 200.0 cp

10. STABILITY AND REACTIVITY:

Chemical stability:	Stable under normal use and storage conditions according to section 7.
Reactivity:	It can react with strong oxidizing chemicals.
Possibility of hazardous reactions:	In contact with strong chemical oxidants, it can cause dangerous reactions.
Conditions to avoid:	They should not be stored with oxidizing substances. Avoid rapid changes in temperature, because there may be separation from the physical aspect.
Incompatible materials:	Strong oxidizing agents.
Decomposition hazardous products:	In case of combustion it may generate carbon monoxide and carbon dioxide.

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11. TOXICOLOGICAL INFORMATION:

Acute toxicity:	Data does not allow rating.
Corrosion / irritation:	Data does not allow rating.
Serious eye damage / irritation:	Data does not allow rating.
Respiratory sensitization or skin:	Data does not allow rating.
Germ cell mutagenicity:	Data does not allow rating.
Carcinogenicity:	Data does not allow rating.
Reproductive toxicity:	Data does not allow rating.
Organ toxicity - specific target - single exposure:	Data does not allow rating.
Organ toxicity - specific target - repeated exposure:	Data does not allow rating.
Aspiration hazard:	Data does not allow rating.

12. ECOLOGICAL INFORMATION:

Toxicity:	ND
Persistence and degradability:	ND
Bioaccumulative potential:	Non accumulative.
Mobility in soil:	It can move to groundwater or to be loaded to other locations in natural environmental conditions.
Other adverse effects:	Under large quantities contaminates soil, air and water. Cause damage to flora and fauna.

13. CONSIDERATIONS ON FINAL DESTINATION:

Recommended methods for final disposal:	Should be used individual protection equipment as indicated in Section 8. **-Product and residues of product:** Co-processing or incineration in authorized facilities, capable of preventing the emission of pollutants into the atmosphere. Incineration should be done in accordance with local, State and federal legislation in force in accordance with the standards of local environmental agencies. **- Packaging used:** Do not use for other purposes. Do not cut or pierce the container or perform warm services next to them. Do not remove the labels. Dispose safely as waste or sent for recovery in accredited companies.

14. TRANSPORTATION INFORMATION:

National and international regulations:	**- Terrestrial:** Resolution nº 5232, of December 14, 2016 – Brazil. **- Waterways:** IMDG – International Maritime Dangerous Goods **- By air:** IATA – Dangerous Goods Regulations.
Land:	Not rated as hazardous for transport.
Water:	Not rated as hazardous for transport.
Air:	Not rated as hazardous for transport.

15. REGULATORY INFORMATION:

Specific safety regulations, health and the environment for the chemical:	- ABNT NBR 14619: Overland transport of dangerous goods - Chemical Incompatibility Comply with local and national legal regulations.

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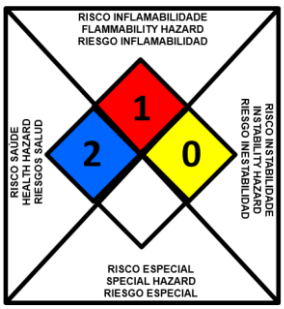
16. OTHER INFORMATION:

The information provided here is based on our current knowledge. These are given in good faith and not as product specification. No warranty expressed or implied here is guaranteed. The recommended industrial hygiene and safety are recommended in general, but each user should review recommendations for specific cases and determine whether they are appropriate. The company is not liable for any claims, losses, damage to third parties or loss of profit, indirect or accidental, even if the company has been notified of the danger. This information does not include technical specifications or performance of the product to such customers should refer to the technical literature Golden Technology Ltda.

NFPA 704:



4= EXTREMO / SEVERE / EXTREMO
3= ALTO / HIGHT / ALTO
2= MODERADO / MODERATE / MODERADO
1= LEVE / LIGHT / LEVE
0= MÍNIMO / MINIMAL / MINIMO
~~W~~ = NÃO USAR ÁGUA EM CASO DE INCÊNDIO / DO NOT USE WATER IN CASE OF FIRE / NO USAR AGUA EM CASO DE INCENDIO

Degree of Hazard	Health hazard	Flammability hazard	Instability hazard
0	Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.	Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.	Materials that in themselves are normally stable, even under fire conditions.
1	Materials that, under emergency conditions, can cause significant irritation.	Materials that must be preheated before ignition can occur. Materials in this degree require considerable preheating, under all ambient temperature conditions before ignitions and combustion can occur. Materials in this degree also include finely divided suspended solids that do not require heating before ignition can occur.	Materials that in themselves are normally stable but that can become unstable at elevated temperatures and pressures.
2	Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.	Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur. Under normal conditions, these materials would not form hazardous atmospheres with air, but under high ambient temperatures or under moderate heating, they could release vapor in sufficient quantities to produce hazardous atmospheres with air. Materials in this degree also include finely divided suspended solids that do not require heating before ignition can occur.	Materials that readily undergo violent chemical change at elevated temperatures and pressures.
3	Materials that, under emergency conditions, can cause serious or permanent injury.	Liquids and solid (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions. Materials in this degree produce hazardous atmospheres with air under almost all ambient temperatures or, though unaffected by ambient temperatures, are readily ignited under almost all conditions.	Materials that in themselves are capable of detonation or explosive decomposition or explosive reaction but that require a strong initiating source or must be heated under confinement before initiation.
4	Materials that, under emergency conditions, can be lethal.	Materials that rapidly or completely vaporize at atmospheric pressure and normal ambient temperature or that are readily dispersed in air and burn readily.	Materials that in themselves are readily capable of detonation or explosive decomposition or explosive reaction at elevated temperatures and pressures.

References:

- [GHS Classification] Globally Harmonized System of Classification and Labelling of Chemicals (GHS).
- ABN NBR14619: Terrestrial Transportation of dangerous products - Chemical incompatibility.
- Resolution nº 5232, of December 14, 2016 – Brazil.
- IMDG – International Maritime Dangerous Goods.
- IATA – Dangerous Goods Regulations.
- [ECHA] European Union. ECHA European Chemical Agency.
- [HSNO] New Zealand. HSNO Chemical Classification and Information Database (CCID).
- [ISO 11014] Safety data sheet for chemical products – Content and order of sections.
- [NFPA 704] Standard System for the Identification of the Hazards of Materials for Emergency Response.

Legends and abbreviations:

- LC50 – Lethal concentration for 50% of the test animals.
- LD50 – Lethal dosage for 50% of the test animals.
- NA. – Not applicable.
- ND. – Not determined.
- NIOSH – National Institute for Occupational Safety and Health.
- Sol w/w – % weigh of the product / weigh solution.
- STEL – Short-term exposure limit.
- TLV – Threshold Limit Value.
- TWA – Time Weighted Average.