## Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 - Poland

# **SAFETY DATA SHEET**

Alloy Sn62-Pb36-Ag2 Glowcore

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

1.1 Product identifier	
Product name	: Alloy Sn62-Pb36-Ag2 Glowcore
GHS reference number	: GHS059
Product description	: Not available.
Product type	: Solid.
Other means of identification	: Not applicable

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

Not applicable.

Uses advised against Not applicable.

#### 1.3 Details of the supplier of the safety data sheet

AIM 9100 Henri Bourassa East Montreal, QC H1E 2S4 (514) 494-2000

AIM Solder Europe Sp. z.o.o. ul. Papiernicza 7 Łódź 92-312 Poland

e-mail address of person : Safetydata@aimsolder.com responsible for this SDS

**National contact** 

#### 1.4 Emergency telephone number

National advisory body/Poison Center

**Telephone number** 

: INFOTRAC Europe: 0800-181-29-24 International: (352) 323-3500

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Product definition : Mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Repr. 1B, H360FD Lact., H362 STOT RE 2, H373

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.



## **SECTION 2: Hazards identification**

#### 2.2 Label elements Hazard pictograms Signal word : Danger : May damage fertility. May damage the unborn child. **Hazard statements** May cause harm to breast-fed children. May cause damage to organs through prolonged or repeated exposure. **Precautionary statements Prevention** : Obtain special instructions before use. Do not breathe dust. Avoid contact during pregnancy and while nursing. Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection. : Get medical attention if you feel unwell. IF exposed or concerned: Get medical Response attention. : Store locked up. Storage **Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations. **Annex XVII - Restrictions** : Restricted to professional users. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Special packaging requirements **Containers to be fitted** : Not applicable. with child-resistant fastenings Tactile warning of danger : Not applicable. 2.3 Other hazards **Product meets the criteria** : This mixture does not contain any substances that are assessed to be a PBT or a for PBT or vPvB according vPvB. to Regulation (EC) No. 1907/2006, Annex XIII Other hazards which do : None known. not result in classification

## **SECTION 3: Composition/information on ingredients**

3.2 Mixtures Product/ingredient name	: Mixture	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Lead	REACH #: 01-2119513221-59 EC: 231-100-4 CAS: 7439-92-1 Index: 082-001-00-6	≥25 - ≤50	Repr. 1B, H360FD Lact., H362 STOT RE 2, H373	-	[1] [2]
silver	REACH #: 01-2119555669-21 EC: 231-131-3 CAS: 7440-22-4	≤3	Not classified.	-	[2]
Date of issue/Date of revision	: 11/28/2022 Dat	e of previous is	sue : 10/27/2022	Version : 1.0	94 2/1

## SECTION 3: Composition/information on ingredients See Section 16 for the full text of the H statements declared above.

There are no additional 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.

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

## **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

Eye contact	(	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell.
Inhalation		Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: \	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: ( 1 1	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	i r F	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

<u>Over-exposure signs/symptoms</u>				
Eye contact	: No specific data.			
Inhalation	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations			
Skin contact	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations			
Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations			

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## **SECTION 4: First aid measures**

4.3 Indication of any immedi	ate medical attention and special treatment needed	
Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>	
Specific treatments	: No specific treatment.	
<b>SECTION 5: Firefigh</b>	ting measures	
5.1 Extinguishing media		
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.	
Unsuitable extinguishing media	: None known.	
5.2 Special hazards arising f	rom the substance or mixture	
Hazards from the substance or mixture	: No specific fire or explosion hazard.	
Hazardous combustion products	Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides	
5.3 Advice for firefighters		
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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.	
Additional information	: No additional remark.	

### **SECTION 6: Accidental release measures**

6.1 Personal precautions, pro	ote	ctive 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. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized 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".
6.2 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).
6.3 Methods and materials for	r c	ontainment and cleaning up
Small spill	:	Move containers from spill area. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.

#### SECTION 6: Accidental release measures

Large spill	: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.
6.4 Reference to other sections	<ul> <li>See Section 1 for emergency contact information.</li> <li>See Section 8 for information on appropriate personal protective equipment.</li> <li>See Section 13 for additional waste treatment information.</li> </ul>

### **SECTION 7: Handling and storage**

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).

#### 7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid contact during pregnancy or while nursing. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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.

#### 7.2 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. Store locked up. 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. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)	
Recommendations	: Not available.
Industrial sector specific solutions	: Not available.

## **SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

#### 8.1 Control parameters

#### **Occupational exposure limits**

Product/ingredie	ent name	Exposure limit values		
Lead	of 18 Feb concentra work env 2/2021). [ TWA: 0.0	Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). [Lead – inorganic compounds] TWA: 0.05 mg/m <sup>3</sup> , (calculated as Pb) 8 hours. Form: Inhalable		
silver		n of the Minister of Family, Labor and Social Po ruary 2021, regarding the highest permissible	olicy	

## **SECTION 8: Exposure controls/personal protection**

	concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). TWA: 0.05 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction
procedures atmosphere of the ventil protective e the followin the assess limit values atmosphere of exposure (Workplace for the mea	act contains ingredients with exposure limits, personal, workplace e or biological monitoring may be required to determine the effectiveness lation or other control measures and/or the necessity to use respiratory equipment. Reference should be made to monitoring standards, such as g: European Standard EN 689 (Workplace atmospheres - Guidance for ment of exposure by inhalation to chemical agents for comparison with and measurement strategy) European Standard EN 14042 (Workplace es - Guide for the application and use of procedures for the assessment e to chemical and biological agents) European Standard EN 482 e atmospheres - General requirements for the performance of procedures issurement of chemical agents) Reference to national guidance for methods for the determination of hazardous substances will also be

#### **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
silver	DNEL	Long term Inhalation	0.04 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	0.1 mg/m³	Workers	Systemic
	DNEL	Long term Oral	1.2 mg/kg bw/day	General population	Systemic

#### **PNECs**

No PNECs available.

#### 8.2 Exposure controls

Appropriate engineering controls	:	If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Individual protection measu	ures	
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. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
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. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
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.

## **SECTION 8: Exposure controls/personal protection**

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	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other importar aspects of use.
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.

## **SECTION 9: Physical and chemical properties**

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

#### 9.1 Information on basic physical and chemical properties

a. I mormation on pasic physica	ı a	nu chemical properties
Appearance		
Physical state	1	Solid. [Cored Wire]
Color	1	silver-grey
Odor	1	Not available.
Odor threshold	1	Not available.
Melting point/freezing point	1	280 to 284°C
Initial boiling point and boiling range	:	Not available.
Flammability	:	Non-flammable in the presence of the following materials or conditions: open flames, sparks and static discharge.
Lower and upper explosion limit	:	Not applicable.
Flash point	:	[Product does not sustain combustion.]
Auto-ignition temperature	1	Not applicable.
Decomposition temperature	1	Not available.
рН	1	Not available.
Viscosity	1	Not applicable.
Solubility(ies)	1	
Media		Result
cold water		Not soluble
Solubility in water	:	Not available.
Partition coefficient: n-octanol/ water	:	Not applicable.
Vapor pressure	:	Not available.
Relative density	1	Not available.
Vapor density	:	Not applicable.
Explosive properties	:	Non-explosive in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and shocks and mechanical impacts.
Oxidizing properties	1	Not available.
Particle characteristics		
Median particle size	:	Not available.

## **SECTION 10: Stability and reactivity**

10.1 Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	:	The product is stable.
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	:	No specific data.
10.5 Incompatible materials	:	No specific data.
10.6 Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## **SECTION 11: Toxicological information**

11.1 Information on hazard	classes as defined in Regulation (EC) No 1272/2008	
Acute toxicity		
<b>Conclusion/Summary</b>	: Not available.	
Acute toxicity estimates		
N/A		
Irritation/Corrosion		
<b>Conclusion/Summary</b>	: Not available.	
Sensitization		
<b>Conclusion/Summary</b>	: Not available.	
Mutagenicity		
Conclusion/Summary	: Not available.	
Carcinogenicity		
Conclusion/Summary	<ul> <li>Human: LEAD crosses the placental barrier. CHRONIC OVEREXPOSURE EFFECTS; Increase of LEAD LEVEL in blood, muscle soreness, metallic taste, abdominal cramps, headaches. Overexposure to tin oxide fumes may result in benigne pneumoconiosis (stannosis).</li> </ul>	
Reproductive toxicity		
<b>Conclusion/Summary</b>	: Not available.	
Teratogenicity		
<b>Conclusion/Summary</b>	: Not available.	
Specific target organ toxicity (single exposure)		

Not available.

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

Product/ingredient name	Category	Route of exposure	Target organs
Lead	Category 2	-	-

#### Aspiration hazard

Not available.

## Information on the likely routes of exposure

: Routes of entry not anticipated: Dermal.

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## **SECTION 11: Toxicological information**

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 phys	sical, chemical and toxicological characteristics
Eye contact	: No specific data.
Inhalation	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations

Delayed and immediate effec	ts and also chronic effects from short and long term exposure
<u>Short term exposure</u>	
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 effe	ects
Not available.	
<b>Conclusion/Summary</b>	: Not available.
General	: May cause damage to organs through prolonged or repeated exposure.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	<ul> <li>May damage fertility. May damage the unborn child. May cause harm to breast-fed children.</li> </ul>

#### 11.2 Information on other hazards

#### **11.2.1 Endocrine disrupting properties**

Not available.

#### **11.2.2 Other information**

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.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Lead	Acute EC50 105 ppb Marine water	Algae - Chaetoceros sp Exponential growth phase	72 hours
	Acute EC50 0.489 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 8000 µg/l Fresh water	Aquatic plants - Lemna minor	4 days
	Acute LC50 530 µg/l Fresh water	Crustaceans - Ceriodaphnia reticulata	48 hours
	Acute LC50 0.594 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 0.44 ppm Fresh water	Fish - Cyprinus carpio - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Chronic NOEC 0.25 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 0.03 µg/l Fresh water	Fish - Cyprinus carpio	4 weeks
silver	Acute EC50 1.4 µg/l Marine water	Algae - Chroomonas sp.	4 days
	Acute EC50 0.24 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 11 µg/l Fresh water	Crustaceans - Ceriodaphnia reticulata	48 hours
	Acute LC50 2.13 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 5 mg/l Marine water	Algae - Glenodinium halli	72 hours
Conclusion/Summary	: Not available.		•

12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
silver	-	70	low

12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

#### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### **12.6 Endocrine disrupting properties**

Not available.

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

#### 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** 

## **SECTION 13: Disposal considerations**

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.
Hazardous waste	<ul> <li>Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.</li> </ul>
Packaging	
Methods of disposal	: The generation of waste should be avoided or minimized 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

## **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

user

14.6 Special precautions for : 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.

14.7 Maritime transport in bulk according to IMO instruments

: Not available.

## SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

#### **Annex XIV**

None of the components are listed.

#### Substances of very high concern

	Intrinsic property	Ingredient name		Status	Reference number	Date revisi	
	Toxic to reproduction	Lead		Candidate	-	-	
Date	of issue/Date of revision	: 11/28/2022	Date of previous issue	: 10/27/2022	Version	:1.04	11/13

## **SECTION 15: Regulatory information**

 

 Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles
 : Restricted to professional users.

 Other EU regulations
 : Listed

 Industrial emissions
 : Listed

 (integrated pollution prevention and control) -Air
 : Listed

 Industrial emissions
 : Listed

prevention and control) -

Water

#### Ozone depleting substances (1005/2009/EU)

Not listed.

#### Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

#### Persistent Organic Pollutants

Not listed.

#### **Seveso Directive**

This product is not controlled under the Seveso Directive.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

15.2 Chemical Safety	1	This product contains substances for which Chemical Safety Assessments are still
Assessment		required.

### **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and acronyms       : ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number SGG = Segregation Group vPvB = Very Persistent and Very Bioaccumulative         Key literature references and sources for data       : -ACGIH, Threshold Limit Values, 1994-1995Canada Gazette Part II, Vol. 122, No. 2 Registration SOR/88-64 31 December, 1987 Hazardous Products Act "Ingredient Disclosure List"CFR29, OSHA's Permissible Exposure Limits, revision July, 1993. -CFR29, part 1910.1200, Hazard CommunicationCHEMTOX database - Components' manufacturer's Material Safety Data SheetCRC Handbook of chemistry and physics, 67 th edition, CRC Press inc., Boca Raton, FloridaCSST (Comission de Santé et Sécurité au Travail), document #RT-12: Classification of Certain Chemical SubstancesIATA, Dangerous Goods Regulations, 37th edition. -NIOSH, Pocket Guide to Chemical Hazards, revision June 1994. Sigma-Alrich handbook of fine chemicals, 1998 -TSCA (Toxic Substance Contral Act), Chemical Substance Inventory List, 1985.         Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]		5 1 5
1272/2008]         DMEL = Derived Minimal Effect Level         DNEL = Derived No Effect Level         EUH statement = CLP-specific Hazard statement         N/A = Not available         PBT = Persistent, Bioaccumulative and Toxic         PNEC = Predicted No Effect Concentration         RRN = REACH Registration Number         SGG = Segregation Group         vPvB = Very Persistent and Very Bioaccumulative         *         -ACGIH, Threshold Limit Values, 1994-1995Canada Gazette Part II, Vol. 122, No.         2 Registration SOR/88-64 31 December, 1987 Hazardous Products Act "Ingredient Disclosure List"CFR29, OSHA's Permissible Exposure Limits, revision July, 1993CFR29, part 1910.1200, Hazard CommunicationCHEMTOX database - Components' manufacturer's Material Safety Data SheetCRC Handbook of chemistry and physics, 67 th edition, CRC Press inc., Boca Raton, FloridaCSST (Comission de Santé et Sécurité au Travail), document #RT-12: Classification of Certain Chemical SubstancesIATA, Dangerous Goods Regulations, 37th edition.         -NIOSH, Pocket Guide to Chemical Hazards, revision June 1994. Sigma-Alrich handbook of fine chemicals, 1998 -TSCA (Toxic Substance Contral Act), Chemical Substance Inventory List, 1985.	Abbreviations and	
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Date of issue/Date of revision	: 11/28/2022	Date of previous issue	: 10/27/2022	Version : 1.04 12	/13
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### SECTION 16: Other information

Classification	Justification
Repr. 1B, H360FD	Calculation method
Lact., H362	Calculation method
STOT RE 2, H373	Calculation method

Full text of abbreviated H statements

H360FD	May damage fertility. May damage the unborn child.
H362	May cause harm to breast-fed children.
H373	May cause damage to organs through prolonged or repeated exposure.

#### Full text of classifications [CLP/GHS]

Lact. Repr. 1B STOT RE 2	TOXIC TO REPRODUCTION - Effects on or via lactation TOXIC TO REPRODUCTION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
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Notice to reader	

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