SAFETY DATA SHEET

Alloy Sn62-Pb36-Ag2 RMA 258-15R



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

1.1 Product identifier

Product name : Alloy Sn62-Pb36-Ag2 RMA 258-15R

UFI : G97J-N028-S00S-8FG8

Product code : GHS053
Product description : Not available.
Product type : Solid.

Other means of : Not applicable

identification

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 responsible for this SDS

: Safetydata@aimsolder.com

1.4 Emergency telephone number

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]

Skin Sens. 1, H317 Repr. 1B, H360FD Lact., H362

STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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.

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SECTION 2: Hazards identification

2.2 Label elements

Hazard pictograms







Signal word

: Danger

Hazard statements

: May cause an allergic skin reaction.

May damage fertility. May damage the unborn child.

May cause harm to breast-fed children.

May cause damage to organs through prolonged or repeated exposure.

Very toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

: Obtain special instructions before use. Avoid release to the environment. Do not breathe dust. Avoid contact during pregnancy and while nursing. Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection.

Response

: Get medical attention if you feel unwell. IF exposed or concerned: Get medical

attention.

Storage

Store locked up.

Disposal

: Dispose of contents and container in accordance with all local, regional, national and

international regulations.

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

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification

: None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

| Product/ingredient name | Identifiers | % | Classification | Specific Conc. Limits, M-factors and ATEs | Туре |
|-------------------------|---|-----------|--|---|---------|
| Tin | REACH #: 01-2119486474-28 EC: 231-141-8 CAS: 7440-31-5 | ≥50 - ≤75 | Not classified. | - | [2] |
| Lead | REACH #: 01-2119513221-59 EC: 231-100-4 CAS: 7439-92-1 | ≥25 - ≤50 | Repr. 1B, H360FD Lact., H362 STOT RE 2, H373 Aquatic Chronic 1, H410 | M [Chronic] = 1000 | [1] [2] |
| rosin | EC: 232-475-7 CAS: 8050-09-7 Index: 650-015-00-7 | ≤5 | Skin Sens. 1, H317 Aquatic Chronic 4, H413 | - | [1] |
| silver | REACH #: 01-2119555669-21 | ≤3 | Aquatic Acute 1, H400 Aquatic Chronic 1, | M [Acute] = 1000 M [Chronic] = 1000 | [1] [2] |

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SECTION 3: Composition/information on ingredients

| | EC: 231-131-3 CAS: 7440-22-4 | | H410 | | |
|---------------------------|---------------------------------|------|--|-----------------------------|-----|
| Amine Decanoic Acid Salt | - | <1 | Skin Sens. 1, H317 Aquatic Chronic 2, H411 | - | [1] |
| 2,2',2"-nitrilotriethanol | EC: 203-049-8 CAS: 102-71-6 | ≤0.3 | STOT RE 2, H373 (kidneys, liver) See Section 16 for the full text of the H statements declared above. | STOT RE 2, H373: C ≥ 10% | [1] |

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.

Type

- [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 : Imr

: 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

: Wash with plenty of soap and 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. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: 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

: 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

Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

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SECTION 4: First aid measures

Skin contact

: Adverse symptoms may include the following:

irritation redness

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

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Specific treatments: No specific treatment.

SECTION 5: Firefighting 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 from the substance or mixture

Hazards from the substance or mixture

: This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous 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.

SECTION 6: Accidental release measures

6.1 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. 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".

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SECTION 6: Accidental release measures

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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

6.3 Methods and materials for containment 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. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

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

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

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). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. 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. Avoid release to the environment. 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.

Seveso Directive - Reporting thresholds

Danger criteria

| | Notification and MAPP threshold | Safety report threshold |
|----|---------------------------------|-------------------------|
| E1 | 100 tonne | 200 tonne |

7.3 Specific end use(s)

Recommendations : Not available.
Industrial sector specific : Not available.
solutions

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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/ingredient name | Exposure limit values |
|-------------------------|---|
| Tin | 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). [tin and inorganic compounds, except SnH4 inhalable fraction, as Sn] |
| | TWA: 2 mg/m³, (calculated as Sn) 8 hours. Form: Inhalable fraction |
| Lead | 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 as Pb] TWA: 0.05 mg/m³, (calculated as Pb) 8 hours. Form: Inhalable fraction |
| silver | 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). TWA: 0.05 mg/m³ 8 hours. Form: Inhalable fraction |

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

| Product/ingredient name | Type | Exposure | Value | Population | Effects |
|-------------------------|------|-------------------------|-------------------------|--------------------|----------|
| Tin | DNEL | Long term Oral | 5 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 10 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 17 mg/m³ | General population | Systemic |
| | DNEL | Long term Inhalation | 71 mg/m³ | Workers | Systemic |
| | DNEL | Long term Dermal | 80 mg/kg bw/day | General population | Systemic |
| rosin | DNEL | Long term Oral | 1.0655 mg/ kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 1.0655 mg/ kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 2.131 mg/ kg bw/day | Workers | Systemic |
| | DNEL | Long term | 10 mg/m³ | Workers | Local |

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SECTION 8: Exposure controls/personal protection

| | | Inhalation | | | |
|---------------------------|------|------------------|------------------------|------------|----------|
| silver | DNEL | Long term | 0.04 mg/m ³ | General | Systemic |
| | | Inhalation | | population | |
| | DNEL | Long term | 0.1 mg/m ³ | Workers | Systemic |
| | | Inhalation | | | |
| | DNEL | Long term Oral | 1.2 mg/kg | General | Systemic |
| | | | bw/day | population | |
| 2,2',2"-nitrilotriethanol | DNEL | Long term Dermal | 0.07 mg/ | General | Local |
| | | | cm ² | population | |
| | DNEL | Long term Dermal | 0.14 mg/ | Workers | Local |
| | | | cm ² | | |
| | DNEL | Long term | 0.4 mg/m³ | General | Local |
| | | Inhalation | | population | |
| | DNEL | Long term | 1 mg/m³ | Workers | Local |
| | | Inhalation | | _ | |
| | DNEL | Long term Dermal | 2.66 mg/ | General | Systemic |
| | | | kg bw/day | population | |
| | DNEL | Long term Oral | 3.3 mg/kg | General | Systemic |
| | | l <u>.</u> . | bw/day | population | |
| | DNEL | Long term Dermal | 7.5 mg/kg | Workers | Systemic |
| | | | bw/day | | |

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 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.

Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. 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.

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 important aspects of use.

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SECTION 8: Exposure controls/personal protection

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

Appearance

Physical state : Solid. [Solder Paste]

Color Not available. **Odor** : Not available. **Odor threshold** Not available. Melting point/freezing point : Not available. : Not available. Initial boiling point and boiling

range

Flammability : Not available. Lower and upper explosion

limit

: Not applicable.

Flash point Not applicable. **Auto-ignition temperature** : Not applicable. **Decomposition temperature** : Not available. pН Not available. Not applicable. **Viscosity**

Solubility(ies)

Not available.

Solubility in water : Not available. Partition coefficient: n-octanol/ : Not applicable.

water

: Not available. Vapor pressure **Relative density** : Not available. : Not applicable. Vapor density

: Non-explosive in the presence of the following materials or conditions: open **Explosive properties**

flames, sparks and static discharge, heat and shocks and mechanical impacts.

: Not available. **Oxidizing properties**

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 : Under normal conditions of storage and use, hazardous reactions will not occur. hazardous reactions

10.4 Conditions to avoid : No specific data.

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SECTION 10: Stability and reactivity

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

| Product/ingredient name | Result | Species | Dose | Exposure |
|---------------------------|-------------|---------|-------------|----------|
| rosin | LD50 Oral | Rat | 7600 mg/kg | - |
| 2,2',2"-nitrilotriethanol | LD50 Dermal | Rabbit | >2000 mg/kg | - |
| | LD50 Oral | Rat | 4190 mg/kg | - |

Conclusion/Summary

: Not available.

Acute toxicity estimates

| Product/ingredient name | Oral (mg/ kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapors) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|---------------------------|------------------|-------------------|--------------------------------|----------------------------------|--|
| rosin | 7600 | N/A | N/A | N/A | N/A |
| 2,2',2"-nitrilotriethanol | 4190 | N/A | N/A | N/A | N/A |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|---------------------------|------------------------|---------|-------|--------------|-------------|
| 2,2',2"-nitrilotriethanol | Eyes - Mild irritant | Rabbit | - | 10 mg | - |
| | Eyes - Severe irritant | Rabbit | - | 20 mg | - |
| | Skin - Mild irritant | Human | - | 72 hours 15 | - |
| | | | | mg I | |
| | Skin - Mild irritant | Rabbit | - | 24 hours 560 | - |
| | | | | mg | |
| | Skin - Severe irritant | Mouse | - | 50 % | - |

Conclusion/Summary

: Not available.

Sensitization

Conclusion/Summary

: Not available.

Mutagenicity

Conclusion/Summary

: Not available.

Carcinogenicity

Conclusion/Summary

: Not available.

Reproductive toxicity

Conclusion/Summary

: Not available.

Teratogenicity

Conclusion/Summary : 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 2,2',2"-nitrilotriethanol | Category 2 Category 2 | - | - kidneys, liver |

Aspiration hazard

Not available.

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SECTION 11: Toxicological information

Information on the likely routes of exposure

: Not available.

Potential acute health effects

Eye contactInhalationNo known significant effects or critical hazards.No known significant effects or critical hazards.

Skin contact: May cause an allergic skin reaction.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, 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:

irritation redness

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 effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate

te

: Not available.

Potential delayed effects

: Not available.

Long term exposure

Potential immediate

: Not available.

effects

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary: Not available.

General: May cause damage to organs through prolonged or repeated exposure. 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.

Reproductive toxicity: May damage fertility. May damage the unborn child.

May cause harm to breast-fed children.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

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SECTION 11: Toxicological 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 |
| 2,2',2"-nitrilotriethanol | EC50 216 mg/l | Algae - Desmodesmus subspicatus | 72 hours |
| | EC50 169 mg/l | Algae - Desmodesmus subspicatus | 96 hours |
| | LC50 100 mg/l | Fish - Pimephales promelas | 96 hours |
| | Acute EC50 609.98 mg/l Fresh water | Crustaceans - Ceriodaphnia dubia - Neonate | 48 hours |
| | Chronic NOEC 16 mg/l Fresh water | Daphnia - Daphnia magna | 21 days |

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|---------------------------|------------|------|-----------|
| rosin | 1.9 to 7.7 | - | high |
| silver | - | 70 | low |
| 2,2',2"-nitrilotriethanol | -1 | <3.9 | low |

12.4 Mobility in soil

Soil/water partition : Not available. coefficient (K_{oc})

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

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SECTION 12: Ecological information

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

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 Packaging

: The classification of the product may meet the criteria for a hazardous waste.

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 | IATA |
|------------------------------------|----------------|----------------|----------------|----------------|
| 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. |

14.6 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.

14.7 Maritime transport in bulk according to IMO instruments

: Not available.

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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)

: Restricted to professional users.

Annex XIV - List of substances subject to authorization

: Listed

: Listed

Annex XIV

None of the components are listed.

Substances of very high concern

| Intrinsic property | Ingredient name | | Reference number | Date of revision |
|-----------------------|-----------------|-----------|------------------|------------------|
| Toxic to reproduction | Lead | Candidate | - | - |

Annex XVII - Restrictions

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and

articles

Other EU regulations

Industrial emissions

(integrated pollution prevention and control) -

Air

Industrial emissions

(integrated pollution prevention and control) -

Water

Ozone depleting substances (1005/2009/EU)

Not listed.

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

| Annex | Ingredient name | Status |
|------------------|------------------------|--------|
| Annex I - Part 1 | Lead and its compounds | Listed |

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category

E1

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

| List name | Ingredient name | Status |
|--------------|-----------------|--------|
| Schedule III | Triethanolamine | Listed |

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

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SECTION 15: Regulatory information

| List name | Ingredient name | Status |
|------------------------|-----------------|--------|
| Heavy metals - Annex 1 | Lead (Pb) | Listed |

Inventory list

Australia : Not determined.
Canada : Not determined.
China : Not determined.

Eurasian Economic Union: Russian Federation inventory: Not determined.

Japan : Japan inventory (CSCL): Not determined.

Japan inventory (ISHL): Not determined.

New Zealand : Not determined. **Philippines** : Not determined. Republic of Korea : Not determined. **Taiwan** Not determined. **Thailand** : Not determined. **Turkey** : Not determined. **United States** : Not determined. **Viet Nam** : Not determined.

15.2 Chemical Safety : 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.

1272/20081

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

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification | Justification | |
|-------------------------|--------------------|--|
| Skin Sens. 1, H317 | Calculation method | |
| Repr. 1B, H360FD | Calculation method | |
| Lact., H362 | Calculation method | |
| STOT RE 2, H373 | Calculation method | |
| Aquatic Acute 1, H400 | Calculation method | |
| Aquatic Chronic 1, H410 | Calculation method | |

Full text of abbreviated H statements

| H317 | May cause an allergic skin reaction. |
|--------|--|
| 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. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H413 | May cause long lasting harmful effects to aquatic life. |

Full text of classifications [CLP/GHS]

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SECTION 16: Other information

Aquatic Acute 1 AQUATIC HAZARD (ACUTE) - Category 1
Aquatic Chronic 1 AQUATIC HAZARD (LONG-TERM) - Category 1
Aquatic Chronic 2 AQUATIC HAZARD (LONG-TERM) - Category 2
Aquatic Chronic 4 AQUATIC HAZARD (LONG-TERM) - Category 4

Lact. TOXIC TO REPRODUCTION - Effects on or via lactation

Repr. 1B TOXIC TO REPRODUCTION - Category 1B

Skin Sens. 1 SKIN SENSITIZATION - Category 1

STOT RE 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

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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.

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