



# SAFETY DATA SHEET



ALLOY Sn60-Pb40 RA

## Section 1. Identification

**GHS product identifier** : Solder Wire Cored 60Sn/40Pb Alloy, RA-32 Flux  
**Reference number** : 12026  
**Other means of identification** : GHS004  
**Product type** : Solid. [Cored Wire]

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

Not applicable.

**Supplier's details** : Shark Industries, Ltd.  
6700 Bleck Drive  
Rockford, MN 55373  
  
Main Phone: 763-565-1900  
Fax: 763-565-1901  
Customer Service: (800) 537-4275

**Emergency telephone number (with hours of operation)** : INFOTRAC  
North America: (800) 535-5053  
International: (352) 323-3500

## 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** : SKIN SENSITIZATION - Category 1  
CARCINOGENICITY - Category 1  
TOXIC TO REPRODUCTION - Category 1A  
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

### GHS label elements

**Hazard pictograms** :



**Signal word** : Danger

**Hazard statements** : May cause an allergic skin reaction.  
May cause cancer.  
May damage fertility or the unborn child.  
May cause damage to organs through prolonged or repeated exposure.

### Precautionary statements

## Section 2. Hazards identification

|                                         |                                                                                                                                                                                                                                                                                       |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Prevention</b>                       | : Obtain special instructions before use. Wear protective gloves, protective clothing and eye or face protection. Do not breathe dust. Contaminated work clothing must not be allowed out of the workplace. Do not handle until all safety precautions have been read and understood. |
| <b>Response</b>                         | : Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention.                                       |
| <b>Storage</b>                          | : Store locked up.                                                                                                                                                                                                                                                                    |
| <b>Disposal</b>                         | : Dispose of contents and container in accordance with all local, regional, national and international regulations.                                                                                                                                                                   |
| <b>Hazards not otherwise classified</b> | : None known.                                                                                                                                                                                                                                                                         |

## Section 3. Composition/information on ingredients

|                                      |                  |
|--------------------------------------|------------------|
| <b>Substance/mixture</b>             | : Mixture        |
| <b>Other means of identification</b> | : Not applicable |

| <b>Ingredient name</b> | <b>%</b>  | <b>CAS number</b> |
|------------------------|-----------|-------------------|
| Tin                    | ≥50 - ≤75 | 7440-31-5         |
| Lead                   | ≥25 - ≤50 | 7439-92-1         |
| Rosin                  | ≤3        | 8050-09-7         |

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 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. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Inhalation</b>   | : 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.                                                                                                                                   |
| <b>Skin contact</b> | : 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.                                                                                                                                                                                                                                                                                    |
| <b>Ingestion</b>    | : 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. |

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

#### Potential acute health effects

|                    |                                                     |
|--------------------|-----------------------------------------------------|
| <b>Eye contact</b> | : No known significant effects or critical hazards. |
|--------------------|-----------------------------------------------------|

## Section 4. First aid measures

- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : May cause an allergic skin reaction.
- Ingestion** : No known significant effects or critical hazards.

### 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
- 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

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

- Notes to physician** : 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. 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.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.

- Specific hazards arising from the chemical** : No specific fire or explosion hazard.

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
metal oxide/oxides

- 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.

## 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. 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".

- 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

- 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. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### 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 exposure during pregnancy. 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.

- 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.

## Section 8. Exposure controls/personal protection

### Control parameters

### Occupational exposure limits

## Section 8. Exposure controls/personal protection

| Ingredient name | Exposure limits                                                                                                                                                                                                                                                                                                                                                                |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tin             | <b>ACGIH TLV (United States, 3/2020).</b><br>TWA: 2 mg/m <sup>3</sup> , (as Sn) 8 hours. Form: Inhalable fraction                                                                                                                                                                                                                                                              |
| Lead            | <b>NIOSH REL (United States, 10/2016).</b><br>TWA: 2 mg/m <sup>3</sup> 10 hours.<br><b>OSHA PEL (United States, 5/2018).</b><br>TWA: 2 mg/m <sup>3</sup> , (as Sn) 8 hours.                                                                                                                                                                                                    |
| Rosin           | <b>ACGIH TLV (United States, 3/2020).</b><br>TWA: 0.05 mg/m <sup>3</sup> , (as Pb) 8 hours.<br><b>OSHA PEL 1989 (United States, 3/1989).</b><br>TWA: 50 µg/m <sup>3</sup> , (as Pb) 8 hours.<br><b>NIOSH REL (United States, 10/2016).</b><br>TWA: 0.05 mg/m <sup>3</sup> 8 hours.<br><b>OSHA PEL (United States, 5/2018).</b><br>TWA: 50 µg/m <sup>3</sup> , (as Pb) 8 hours. |
|                 | <b>ACGIH TLV (United States, 3/2020). Skin sensitizer. Inhalation sensitizer.</b>                                                                                                                                                                                                                                                                                              |

### 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.

### 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. 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.

## Section 9. Physical and chemical properties

### Appearance

|                                              |                                                                                                                |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Physical state                               | : Solid. [Cored Wire]                                                                                          |
| Color                                        | : Colorless.                                                                                                   |
| Odor                                         | : Not applicable                                                                                               |
| Odor threshold                               | : Not available.                                                                                               |
| pH                                           | : Not available.                                                                                               |
| Melting point                                | : 183 to 302°C (361.4 to 575.6°F)                                                                              |
| Boiling point                                | : Not available.                                                                                               |
| Flash point                                  | : [Product does not sustain combustion.]                                                                       |
| Evaporation rate                             | : Not available.                                                                                               |
| Flammability (solid, gas)                    | : Not available.                                                                                               |
| Lower and upper explosive (flammable) limits | : Not applicable.                                                                                              |
| Vapor pressure                               | : Not available.                                                                                               |
| Vapor density                                | : Not applicable.                                                                                              |
| Relative density                             | : 7.6 to 11.2                                                                                                  |
| Solubility                                   | : Insoluble in the following materials: cold water, hot water, METHANOL, diethyl ether, n-octanol and acetone. |
| Solubility in water                          | : Not available.                                                                                               |
| Partition coefficient: n-octanol/water       | : Not applicable.                                                                                              |
| Auto-ignition temperature                    | : Not applicable.                                                                                              |
| Decomposition temperature                    | : Not available.                                                                                               |
| Viscosity                                    | : Not applicable.                                                                                              |
| Flow time (ISO 2431)                         | : Not available.                                                                                               |

## Section 10. Stability and reactivity

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

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

| Product/ingredient name | Result    | Species | Dose       | Exposure |
|-------------------------|-----------|---------|------------|----------|
| Rosin                   | LD50 Oral | Rat     | 7600 mg/kg | -        |

#### Irritation/Corrosion

Not available.

#### Sensitization

## Section 11. Toxicological information

Not available.

### Mutagenicity

Not available.

### Carcinogenicity

Not available.

**Conclusion/Summary** : Human: LEAD crosses the placental barrier.  
CHRONIC OVEREXPOSURE EFFECTS; Increase of LEAD LEVEL in blood, muscle soreness, metallic taste, abdominal cramps, headaches.

### Classification

| Product/ingredient name | OSHA | IARC | NTP                                              |
|-------------------------|------|------|--------------------------------------------------|
| Lead                    | -    | 2B   | Reasonably anticipated to be a human carcinogen. |

### Reproductive toxicity

Not available.

### Teratogenicity

Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

| 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.

### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.  
**Inhalation** : 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

## Section 11. Toxicological information

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

**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 effects

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** : May cause cancer. Risk of cancer depends on duration and level of exposure.

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

**Teratogenicity** : May damage the unborn child.

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

**Fertility effects** : May damage fertility.

### Numerical measures of toxicity

#### Acute toxicity estimates

Not available.

## Section 12. Ecological information

### 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  |

### Persistence and degradability

Not available.

### Bioaccumulative potential

| Product/ingredient name | LogP <sub>ow</sub> | BCF | Potential |
|-------------------------|--------------------|-----|-----------|
| Rosin                   | 1.9 to 7.7         | -   | high      |

### Mobility in soil

## Section 12. Ecological information

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

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

## Section 13. Disposal considerations

**Disposal methods** : 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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

|                                   | <b>DOT<br/>Classification</b>                                                                                                                                                                                | <b>TDG<br/>Classification</b> | <b>Mexico<br/>Classification</b> | <b>ADR/RID</b> | <b>IMDG</b>    | <b>IATA</b>    |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------------|----------------|----------------|----------------|
| <b>UN number</b>                  | Not regulated.                                                                                                                                                                                               | Not regulated.                | Not regulated.                   | Not regulated. | Not regulated. | Not regulated. |
| <b>UN proper shipping name</b>    | -                                                                                                                                                                                                            | -                             | -                                | -              | -              | -              |
| <b>Transport hazard class(es)</b> | -                                                                                                                                                                                                            | -                             | -                                | -              | -              | -              |
| <b>Packing group</b>              | -                                                                                                                                                                                                            | -                             | -                                | -              | -              | -              |
| <b>Environmental hazards</b>      | No.                                                                                                                                                                                                          | No.                           | No.                              | No.            | No.            | No.            |
| <b>Additional information</b>     | <b>Reportable quantity</b> 25.51 lbs / 11.582 kg. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements. |                               |                                  |                |                |                |

**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.

## Section 14. Transport information

Transport in bulk according to IMO instruments : Not available.

## Section 15. Regulatory information

Clean Air Act Section 112 : Listed

(b) 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

### State regulations

Massachusetts : The following components are listed: TIN; LEAD

New York : The following components are listed: Lead

New Jersey : The following components are listed: TIN; LEAD

Pennsylvania : The following components are listed: TIN; LEAD COMPOUNDS; ROSIN CORE SOLDER PYROLYSIS PRODUCTS

### California Prop. 65

**WARNING:** This product can expose you to Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

| Ingredient name | Cancer | Reproductive | No significant risk level | Maximum acceptable dosage level |
|-----------------|--------|--------------|---------------------------|---------------------------------|
| Lead            | Yes.   | Yes.         | Yes.                      | Yes.                            |

### International regulations

#### 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

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

### International lists

#### National inventory

Australia : All components are listed or exempted.

Canada : All components are listed or exempted.

China : All components are listed or exempted.

Europe :

Japan : **Japan inventory (CSCL):** Not determined.  
**Japan inventory (ISHL):** Not determined.

Malaysia : Not determined

New Zealand : All components are listed or exempted.

## Section 15. Regulatory information

|                          |                                          |
|--------------------------|------------------------------------------|
| <b>Philippines</b>       | : All components are listed or exempted. |
| <b>Republic of Korea</b> | : All components are listed or exempted. |
| <b>Taiwan</b>            | : All components are listed or exempted. |
| <b>Turkey</b>            | : Not determined.                        |

## Section 16. Other information

### Hazardous Material Information System (U.S.A.)

|                  |   |   |
|------------------|---|---|
| Health           | * | 1 |
| Flammability     |   | 0 |
| Physical hazards |   | 0 |
|                  |   |   |

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



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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      |
|-----------------------------------------------------------------|--------------------|
| SKIN SENSITIZATION - Category 1                                 | Calculation method |
| CARCINOGENICITY - Category 1                                    | Calculation method |
| TOXIC TO REPRODUCTION - Category 1A                             | Calculation method |
| SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 | Calculation method |

### History

**Date of printing** : 4/26/2024

**Date of issue/Date of revision** : 4/26/2024

**Date of previous issue** : 4/24/2024

**Version** : 0.09

### 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 = 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.

Indicates information that has changed from previously issued version.

### Notice to reader

## Section 16. Other information

To the best of our knowledge, the information contained herein is accurate. However, Shark Industries, Ltd, 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.