# SAFETY DATA SHEET

Alloy SN100C WS 488



## **Section 1. Identification**

GHS product identifier : Alloy SN100C WS 488

Reference number : GHS003

Other means of : Not available. identification

Product type : Solid. [Solder Paste]

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

Not applicable.

Supplier's details : AIM

9100 Henri Bourassa East

Montreal, QC H1E 2S4 (514) 494-2000

In the United States:

AIM

25 Kenney Drive Cranston, RI 02920 (800) CALL-AIM

In México

AIM Soldadura de México Circuito Interior Norte # 460 Parque Industrial Salvarcar Ciudad Juárez, Chih. (656) 630-0032

Emergency telephone number (with hours of

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

**GHS label elements** 

Hazard pictograms :



Signal word : Warning

**Hazard statements** : May cause an allergic skin reaction.

**Precautionary statements** 

**Prevention**: Wear protective gloves. Avoid breathing dust. Contaminated work clothing must not be

allowed out of the workplace.

Response : IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before

reuse. If skin irritation or rash occurs: Get medical attention.

**Storage** : Not applicable.

Date of issue/Date of revision : 4/26/2024 Date of previous issue : 4/24/2024 Version : 0.11 1/12

## Section 2. Hazards identification

**Disposal** 

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

Hazards not otherwise classified

: None known.

# Section 3. Composition/information on ingredients

Substance/mixture
Other means of
identification

: Mixture: Not available.

Ingredient name	%	CAS number
Tin	≥75 - ≤90	7440-31-5
Terpineol	≤3	8000-41-7
Amines, N-tallow alkyltrimethylenedi-, ethoxylated	≤3	61790-85-0
rosin	≤1	8050-09-7
copper	≤1	7440-50-8
Nickel	<0.1	7440-02-0

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**

**Eve 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 if irritation occurs.

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 adverse health effects persist or are severe. 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. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 if adverse health effects persist or are severe. 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

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

**Skin contact**: May cause an allergic skin reaction.

Date of issue/Date of revision : 4/26/2024 Date of previous issue : 4/24/2024 Version : 0.11 2/12

# Section 4. First aid measures

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

#### Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : No specific data.

**Skin contact**: Adverse symptoms may include the following:

irritation redness

**Ingestion**: No specific data.

## 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. 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.

metal oxide/oxides

Specific hazards arising from the chemical

: No specific fire or explosion hazard.

Hazardous thermal decomposition products

 Decomposition products may include the following materials: carbon dioxide carbon monoxide

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).

Date of issue/Date of revision : 4/26/2024 Date of previous issue : 4/24/2024 Version : 0.11 3/12

## Section 6. Accidental release measures

## Methods and materials for containment and cleaning up

**Small spill** 

: Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. 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. Do not get in eyes or on skin or clothing. Do not ingest. 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. 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

Ingredient name	Exposure limits
Tin	ACGIH TLV (United States, 3/2019).  TWA: 2 mg/m³, (as Sn) 8 hours. Form: Inhalable fraction  NIOSH REL (United States, 10/2016).  TWA: 2 mg/m³ 10 hours.  OSHA PEL (United States, 5/2018).  TWA: 2 mg/m³, (as Sn) 8 hours.
Terpineol Amines, N-tallow alkyltrimethylenedi-, ethoxylated rosin copper	None. None. ACGIH TLV (United States, 3/2019). Skin sensitizer. Inhalation sensitizer. ACGIH TLV (United States, 3/2019).  TWA: 1 mg/m³, (as Cu) 8 hours. Form: Dust and mist  TWA: 0.2 mg/m³ 8 hours. Form: Fume OSHA PEL 1989 (United States, 3/1989).  TWA: 1 mg/m³, (as Cu) 8 hours. Form: Dusts and Mists  TWA: 0.1 mg/m³, (as Cu) 8 hours. Form: Fume NIOSH REL (United States, 10/2016).  TWA: 1 mg/m³, (as Cu) 10 hours. Form:

Date of issue/Date of revision : 4/26/2024 Date of previous issue : 4/24/2024 Version : 0.11 4/12

# Section 8. Exposure controls/personal protection

Dusts and Mists
OSHA PEL (United States, 5/2018).

TWA: 1 mg/m³ 8 hours. Form: Dusts and Mists
TWA: 0.1 mg/m³ 8 hours. Form: Fume
Nickel

ACGIH TLV (United States, 3/2019).

TWA: 1.5 mg/m³ 8 hours. Form: Inhalable fraction
OSHA PEL 1989 (United States, 3/1989).

TWA: 1 mg/m³, (as Ni) 8 hours.
NIOSH REL (United States, 10/2016).

TWA: 0.015 mg/m³, (as Ni) 10 hours.
OSHA PEL (United States, 5/2018).

TWA: 1 mg/m³, (as Ni) 8 hours.

# Appropriate engineering controls

**Environmental exposure** controls

- : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- : 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 sideshields.

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.

Date of issue/Date of revision : 4/26/2024 Date of previous issue : 4/24/2024 Version : 0.11 5/12

# Section 9. Physical and chemical properties

**Appearance** 

**Physical state** : Solid. [Solder Paste]

Color : not available Odor Typical rosin. **Odor threshold** Not available. pН : Not available. : Not available. **Melting point Boiling point** : Not available. Flash point : Not applicable. : Not available. **Evaporation rate** 

Flammability (solid, gas) : Slightly flammable in the presence of the following materials or conditions: open flames,

sparks and static discharge.

Lower and upper explosive

(flammable) limits

: Not applicable.

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

**Solubility** : Insoluble in the following materials: cold water.

Solubility in water : Not available. Partition coefficient: n-

octanol/water

: Not applicable.

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

Date of issue/Date of revision : 4/26/2024 : 4/24/2024 6/12 Date of previous issue Version: 0.11

# **Section 11. Toxicological information**

Product/ingredient name	Result	Species	Dose	Exposure
Terpineol	LD50 Oral	Rat	4300 mg/kg	-
Amines, N-tallow alkyltrimethylenedi-, ethoxylated	LD50 Oral	Rat	>500 mg/kg	-
rosin	LD50 Oral	Rat	7600 mg/kg	-
Nickel	LDLo Oral	Guinea pig	5 mg/kg	-

## **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Terpineol	Eyes - Mild irritant	Mammal - species unspecified	-	12.5 %	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-

## **Sensitization**

Not available.

## **Mutagenicity**

Not available.

## **Carcinogenicity**

Not available.

## **Classification**

Product/ingredient name	OSHA	IARC	NTP
copper Nickel	-		Known to be a human carcinogen. 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)

Not available.

## **Aspiration hazard**

Not available.

Information on the likely

routes of exposure

: Routes of entry not anticipated: Dermal.

## 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 : No specific data.

Date of issue/Date of revision : 4/26/2024 Date of previous issue : 4/24/2024 Version : 0.11 7/12

# Section 11. Toxicological information

**Skin contact**: Adverse symptoms may include the following:

irritation redness

Ingestion : No specific data.

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

**Short term exposure** 

Potential immediate

effects

: Not available.

Potential delayed effects: Not available.

**Long term exposure** 

**Potential immediate** 

: Not available.

effects

Potential delayed effects : Not available.

#### Potential chronic health effects

Not available.

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed to

very low levels.

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

No known significant effects or critical hazards.

## **Numerical measures of toxicity**

## **Acute toxicity estimates**

Route	ATE value
Oral	17991.97 mg/kg

# Section 12. Ecological information

## **Toxicity**

Product/ingredient name	Result	Species	Exposure
copper	Acute EC50 1100 μg/l Fresh water	Aquatic plants - Lemna minor	4 days
	Acute EC50 2.1 μg/l Fresh water	Daphnia - Daphnia longispina - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute IC50 13 μg/l Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
	Acute IC50 5.4 mg/l Marine water	Aquatic plants - Plantae - Exponential growth phase	72 hours
	Acute LC50 0.072 µg/l Marine water	Crustaceans - Amphipoda - Adult	48 hours
	Acute LC50 7.56 µg/l Marine water	Fish - Periophthalmus waltoni - Adult	96 hours
	Chronic NOEC 2.5 µg/l Marine water	Algae - Nitzschia closterium - Exponential growth phase	72 hours
	Chronic NOEC 7 mg/l Fresh water	Aquatic plants - Ceratophyllum demersum	3 days
	Chronic NOEC 0.02 mg/l Fresh water	Crustaceans - Cambarus bartonii - Mature	21 days
	Chronic NOEC 2 µg/l Fresh water	Daphnia - Daphnia magna	21 days

# Section 12. Ecological information

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	Chronic NOEC 0.8 µg/l Fresh water	Fish - Oreochromis niloticus - Juvenile (Fledgling, Hatchling, Weanling)	6 weeks
Nickel	Acute EC50 2 ppm Marine water	Algae - Macrocystis pyrifera - Young	4 days
	Acute EC50 450 μg/l Fresh water Acute EC50 1000 μg/l Marine water Acute IC50 0.31 mg/l Marine water	Aquatic plants - Lemna minor Daphnia - Daphnia magna Crustaceans - Americamysis bahia - Juvenile (Fledgling, Hatchling, Weanling)	4 days 48 hours 48 hours
	Acute LC50 47.5 ng/L Fresh water Chronic NOEC 100 mg/l Marine water Chronic NOEC 3.5 µg/l Fresh water	Fish - Heteropneustes fossilis Algae - Glenodinium halli Fish - Cyprinus carpio	96 hours 72 hours 4 weeks

## Persistence and degradability

Not available.

### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Terpineol	2.6	24.13	low
rosin	1.9 to 7.7	-	high

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: 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**

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

Date of issue/Date of revision : 4/26/2024 Date of previous issue : 4/24/2024 Version : 0.11 9/12

# **Section 14. Transport information**

Environmental hazards	No.	No.	No.	No.	No.	No.
Additional information	-	-	-	-	-	-

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in the

event of an accident or spillage.

Transport in bulk according : Not available.

to IMO instruments

# Section 15. Regulatory information

Clean Air Act Section 112

(b) Hazardous Air **Pollutants (HAPs)** 

: Listed

**Clean Air Act Section 602** 

Class I Substances

: Not listed

Clean Air Act Section 602

**Class II Substances** 

: Not listed

**DEA List I Chemicals** 

: Not listed

(Precursor Chemicals)

**DEA List II Chemicals** 

: Not listed

(Essential Chemicals)

State regulations

**Massachusetts** : The following components are listed: TIN

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

**New Jersey** : The following components are listed: TIN **Pennsylvania** : The following components are listed: TIN

California Prop. 65

WARNING: This product can expose you to Nickel, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Ingredient name	Cancer	•	level	Maximum acceptable dosage level
Nickel	Yes.	No.	-	-

## 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**

Not listed.

## **International lists**

## **National inventory**

**Australia** : Not determined. Canada : Not determined.

Date of issue/Date of revision : 4/26/2024 10/12 : 4/24/2024 Version: 0.11 Date of previous issue

# **Section 15. Regulatory information**

**China** : All components are listed or exempted.

**Europe** : Not determined.

Japan : Japan inventory (CSCL): Not determined.

Japan inventory (ISHL): Not determined.

Malaysia : Not determinedNew Zealand : Not determinedPhilippines : Not determinedRepublic of Korea : Not determined

**Taiwan** : All components are listed or exempted.

Turkey: Not determined.

## Section 16. Other information

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



## **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

## **History**

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

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Date of previous issue : 4/24/2024 Version : 0.11

**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

# Section 16. Other information

References

Not available

**▼** Indicates information that has changed from previously issued version.

## **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.

Date of issue/Date of revision : 4/26/2024 Date of previous issue : 4/24/2024 Version : 0.11 12/12