# **SAFETY DATA SHEET**

Alloy SAC305 WS 488

### Section 1. Identification : Alloy SAC305 WS 488 **GHS** product identifier : GHS003 **Reference number** 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** : INFOTRAC

North America: (800) 535-5053

International: (352) 323-3500

# Section 2. Hazards identification

number (with hours of

operation)

	o nontineutien
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.
Descention of statements	

Precautionary statements	
General	: Not applicable.
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.

1/13

# Section 2. Hazards identification

Storage	
Disposal	

: Not applicable.

: None known.

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

Hazards not otherwise classified

# Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of	: Not available.
identification	

Ingredient name	%	CAS number
Tin	≥75 - ≤90	7440-31-5
silver	≤3	7440-22-4
Terpineol	≤3	8000-41-7
Amines, N-tallow alkyltrimethylenedi-, ethoxylated	≤3	61790-85-0
rosin	≤1	8050-09-7
copper	≤1	7440-50-8

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

Eye contact	:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention 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 effect	<u>s</u>	
Eye contact	1	No known significant effects or critical hazards.
Inhalation	1	No known significant effects or critical hazards.

# Section 4. First aid measures

Skin contact	: May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
<u>Over-exposure signs/sym</u>	<u>ptoms</u>
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 me	dical attention and special treatment needed, if necessary
Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Specific treatments	: No specific treatment.
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.
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 metal oxide/oxides
Special protective actions for fire-fighters	<ul> <li>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.</li> </ul>
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, protect	<u>ctive equipme</u>	ent and emergency proce	<u>dures</u>			
For non-emergency personnel	Evacuate entering. Wear app	shall be taken involving an surrounding areas. Keep Do not touch or walk throu ropriate respirator when ve protective equipment.	unnecessary and unp gh spilled material. F	protected perso Provide adequa	onnel from ate ventilat	
For emergency responders	Section 8	zed clothing is required to o on suitable and unsuitable y personnel".				
Environmental precautions	and sewer	persal of spilled material an rs. Inform the relevant aut sewers, waterways, soil or	norities if the product			
Date of issue/Date of revision	: 7/12/2019	Date of previous issue	: 11/15/2017	Version	:0.03	3/13

# Section 6. Accidental release measures

### Methods and materials for containment and cleaning up

C	Nove containers from spill area. Avoid dust generation. Using a vacuum with HEPA Iter will reduce dust dispersal. Place spilled material in a designated, labeled waste ontainer. Dispose of via a licensed waste disposal contractor.
si d	Nove containers from spill area. Approach release from upwind. Prevent entry into ewers, water courses, basements or confined areas. Avoid dust generation. Do not ry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, abeled waste container. Dispose of via a licensed waste disposal contractor. Note:

# 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.

# Section 8. Exposure controls/personal protection

### **Control parameters**

### **Occupational exposure limits**

Ingredient name			Exposure limits
Tin			OSHA (United States, 0/1997). Notes:
			Respirable
			TWA: 2 mg/m <sup>3</sup>
			NIOSH (United States, 0/1994). Notes:
			Respirable
			TWA: 2 mg/m <sup>3</sup>
			STEL: 4 mg/m <sup>3</sup>
			ACGIH TLV (United States, 3/2018).
			TWA: 2 mg/m <sup>3</sup> , (as Sn) 8 hours.
			NIOSH REL (United States, 10/2016).
			TWA: 2 mg/m <sup>3</sup> , (as Sn) 10 hours.
			OSHA PEL (United States, 5/2018).
			TWA: 2 mg/m <sup>3</sup> , (as Sn) 8 hours.
silver			ACGIH TLV (United States, 3/2018).
			TWA: 0.1 mg/m <sup>3</sup> 8 hours. Form: Dust and
			fumes
			NIOSH REL (United States, 10/2016).
			TWA: 0.01 mg/m <sup>3</sup> , (as Ag) 10 hours. Form:
			METAL DUST AND SOLUBLE
			OSHA PEL 1989 (United States, 3/1989).
			TWA: 0.01 mg/m³, (as Ag) 8 hours.
			OSHA PEL (United States, 5/2018).
ate of issue/Date of revision	: 7/12/2019	Date of previous issue	: 11/15/2017 Version : 0.03 4/13

# Section 8. Exposure controls/personal protection

	TWA: 0.01 mg/m <sup>3</sup> , (as Ag) 8 hours.
Terpineol	None.
Amines, N-tallow alkyltrimethylenedi-, ethoxylated	None.
rosin	ACGIH TLV (United States, 3/2018). Skin
	sensitizer. Inhalation sensitizer.
copper	ACGIH TLV (United States, 3/2018).
	TWA: 1 mg/m <sup>3</sup> , (as Cu) 8 hours. Form: Dust
	and mist
	TWA: 0.2 mg/m <sup>3</sup> 8 hours. Form: Fume
	OSHA PEL 1989 (United States, 3/1989).
	TWA: 1 mg/m <sup>3</sup> , (as Cu) 8 hours. Form:
	Dusts and Mists
	TWA: 0.1 mg/m <sup>3</sup> , (as Cu) 8 hours. Form:
	Fume
	NIOSH REL (United States, 10/2016).
	TWA: 1 mg/m <sup>3</sup> , (as Cu) 10 hours. Form:
	Dusts and Mists
	OSHA PEL (United States, 5/2018).
	TWA: 1 mg/m <sup>3</sup> 8 hours. Form: Dusts and
	Mists
	TWA: 0.1 mg/m <sup>3</sup> 8 hours. Form: Fume
	NIOSH (United States, 0/1994).
	TWA: 1 mg/m³
	OSHA (United States, 0/1989).
	TWA: 0.1 mg/m³

Appropriate engineering controls	:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
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 measure	<u>es</u>					
Hygiene measures	eating, sı Appropria Contamiı contamin	nds, forearms and face the moking and using the lavat ate techniques should be u nated work clothing should ated clothing before reusin are close to the workstatio	ory and at the end of sed to remove poten not be allowed out of ng. Ensure that eyew	the working pe tially contamina f the workplace	riod. ited clothir . Wash	
Eye/face protection	assessm gases or	rewear complying with an a ent indicates this is necess dusts. If contact is possib ssment indicates a higher o	sary to avoid exposur le, the following prote	e to liquid splas ection should be	hes, mists worn, unl	s, ess
Skin protection						
Hand protection	worn at a necessar during us noted tha glove ma	I-resistant, impervious glow II times when handling che y. Considering the parame that the gloves are still re to the time to breakthrough nufacturers. In the case o n time of the gloves cannot	emical products if a rise eters specified by the etaining their protective for any glove materia f mixtures, consisting	sk assessment glove manufac ve properties. I al may be differe of several subs	indicates f turer, che t should be ent for diffe	this is ck e erent
Body protection	performe	protective equipment for the dand the risks involved an this product.				being
Other skin protection	based or	ate footwear and any additi the task being performed before handling this produ	and the risks involve			
Date of issue/Date of revision	7/12/2019	Date of previous issue	: 11/15/2017	Version	:0.03	5/13

# Section 8. Exposure controls/personal protection

Resp	oirat	tory	prot	tection	
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: 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

Physical state: Solid. [Solder Paste]Color: Not available.Odor: Not available.Odor threshold: Not available.pH: Not available.Boiling point: Not available.Boiling point: Not available.Flash point: Not available.Flammability (solid, gas): Not available.Copy or pressure: Not available.Vapor pressure: Not available.Vapor density: Not available.Solubility in water: Not available.Solubility in water: Not available.Partition coefficient: n- octanol/water: Not available.Auto-ignition temperature: Not available.Viscosity: Not available.Flow time (ISO 2431): Not available.Molecular weight: Not applicable.Type of aerosol: Not applicable.Ignition distance: Not applicable.Ignition distance: Not applicable.Istance: Not applicable.	
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Molecular weight: Not applicable.Type of aerosol: Not applicable.Ignition distance: Not applicable.	
Type of aerosol: Not applicable.Ignition distance: Not applicable.	
Ignition distance : Not applicable.	
•	
Enclosed space ignition - : Not applicable. Time equivalent	
Enclosed space ignition - : Not applicable. Deflagration density	
Flame height : Not applicable.	
Flame duration : Not applicable.	

# Section 10. Stability and reactivity

: 7/12/2019

Date of issue/Date of revision

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.

Date of previous issue

: 11/15/2017

Version : 0.03

6/13

# Section 10. Stability and reactivity

**Incompatible materials** 

: No specific data.

#### Hazardous decomposition : Under normal conditions of storage and use, hazardous decomposition products should not be produced. products

# Section 11. Toxicological information

### Information on toxicological effects

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Terpineol Amines, N-tallow alkyltrimethylenedi-, ethoxylated rosin	LD50 Oral LD50 Oral LD50 Oral		4300 mg/kg >500 mg/kg 7600 mg/kg	-
105111		παι	7000 mg/kg	-

### Irritation/Corrosion

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

#### **Sensitization**

Not available.

### **Mutagenicity**

Not available.

### **Carcinogenicity**

Not available.

#### **Classification**

Product/ingredient name	OSHA	IARC	NTP
copper	-	-	Known 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 : Not available.

## 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.

# Section 11. Toxicological information

Ingestion	: No known significant effects or critical hazards.
Symptoms related to the phy	vsical, chemical and toxicological characteristics
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.
	cts 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 eff	<u>ects</u>
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.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

# Numerical measures of toxicity

Acute toxicity estimates				
Route	ATE value			
Oral	18028.5 mg/kg			

# Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure
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
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	72 hours
	10	subcapitata - Exponential growth	
		phase	

# Section 12. Ecological information

Acute IC50 5.4 mg/l Marine water	Aquatic plants - Plantae - Exponential growth phase	72 hours
Acute LC50 0.072 μg/l Marine water Acute LC50 7.56 μg/l Marine water	Crustaceans - Amphipoda - Adult Fish - Periophthalmus waltoni - Adult	48 hours 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
Chronic NOEC 0.8 μg/l Fresh water	Fish - Oreochromis niloticus - Juvenile (Fledgling, Hatchling, Weanling)	6 weeks

### Persistence and degradability

Not available.

### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
silver	-	70	low
Terpineol	2.6	24.13	low
rosin	1.9 to 7.7	-	high

### **Mobility in soil**

Soil/water partition : Not available. coefficient (Koc)

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
Disposal methous	
	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	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-	-
Date of issue/Date of	revision : 7/12/	2019 Date o	f previous issue	: 11/15/2017	Version	: 0.03 9/1

# Section 14. Transport information

Section 14. Transport information							
Transport hazard class(es)	-	-	-	-	-	-	
Packing group	-	-	-	-	-	-	
Environmental hazards	No.	No.	No.	No.	No.	No.	
Additional information	Reportable guantity 38095.2 lbs / 17295.2 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.

Transport in bulk according : Not available. to Annex II of MARPOL and the IBC Code

# Section 15. Regulatory information

U.S. Federal regulations : United States inventory (TSCA 8b): All components are listed or exempted.

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 (Precursor Chemicals)	: Not listed
DEA List II Chemicals (Essential Chemicals)	: Not listed

### SARA 302/304

### **Composition/information on ingredients**

			SARA 302 TPQ		SARA 304 F	RQ
Name	%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
red phosphorus	≤0.1	Yes.	100	-	1	-

# Section 15. Regulatory information

# SARA 304 RQ

SARA 311/312

: 988142.3 lbs / 448616.6 kg

Classification : Immed

: Immediate (acute) health hazard

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Terpineol Amines, N-tallow	≤3 ≤3	Yes. No.	No. No.	No. No.	Yes. Yes.	No. No.
alkyltrimethylenedi-, ethoxylated rosin	≤1	Yes.	No.	No.	Yes.	No.

### SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	silver	7440-22-4	≤3
Supplier notification	silver	7440-22-4	≤3

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

### **State regulations**

Massachusetts	: The following components are listed: TIN; SILVER
New York	: The following components are listed: Silver
New Jersey	: The following components are listed: TIN; SILVER

Pennsylvania : The following components are listed: TIN; SILVER COMPOUNDS

### International regulations

### Chemical Weapon Convention List Schedules I, II & III Chemicals

Ingredient name	List name	Status
Triethanolamine	Schedule III	Listed

### Montreal Protocol (Annexes A, B, C, E)

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.
China	: Not determined.
Europe	: Not determined.
Japan	: Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined.
Japan Malaysia	• • • •
	Japan inventory (ISHL): Not determined.

Date of issue/Date of revision

# Section 15. Regulatory information

Republic of Korea	
Taiwan	

Turkey

: Not determined.

: Not determined

: Not determined.

# Section 16. Other information

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



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

### 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	: 7/12/2019	
Date of issue/Date of revision	: 7/12/2019	
Date of previous issue	: 11/15/2017	
Version	: 0.03	
Key to abbreviations	<ul> <li>O.03</li> <li>ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate 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</li> </ul>	
References	: Not available.	
Indicates information that	at has changed from previously issued version.	

# Section 16. Other information

#### 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.