# **SAFETY DATA SHEET**

Alloy POWERSOL

Section 1. Identi	fication
GHS product identifier	: Alloy POWERSOL
Reference number	: GHS001
Other means of identification	: Not available.
Product type	: Solid.
Relevant identified uses o	f the substance or mixture and uses advised against
Not applicable.	
Supplier's details	: DISTRIBUTOR Hajoca Corporation 2001 Joshua Road Lafayette Hill, PA 19444 Tel. 225-295-4212
Emergency telephone number (with hours of operation)	: INFOTRAC North America: (800) 535-5053 International: (352) 323-3500
Section 2. Hazar	ds 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	: CARCINOGENICITY - Category 2
GHS label elements	
Hazard pictograms	
Signal word	: Warning
Hazard statements	: Suspected of causing cancer.
Precautionary statements	
General	- : Not applicable.
Prevention	<ul> <li>Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing.</li> </ul>
Response	: IF exposed or concerned: Get medical attention.
Storage	: Store locked up
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
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	≥90	7440-31-5
antimony	<5	7440-36-0
copper	≤3	7440-50-8
Nickel	≤0.3	7440-02-0
silver	≤0.3	7440-22-4

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.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. 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. 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 contact	No known significant effects or critical hazards.			
Inhalation	: No known significant effects or critical hazards.			
Skin contact	: No known significant effects or critical hazards.			
Ingestion	: No known significant effects or critical hazards.			
Over-exposure signs/symptoms				
Eye contact	: No specific data.			
Inhalation	: No specific data.			
Skin contact	: No specific data.			
Ingestion	No specific data.			

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

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# Section 4. First aid measures

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.

#### 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	<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	tiv	e 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 co	nta	ainment and cleaning up
Small spill	:	Move containers from spill area. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.
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). Avoid exposure - obtain special instructions before use. 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.		

# 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, 3/2016).
			TWA: 2 mg/m <sup>3</sup> , (as Sn) 8 hours.
			NIOSH REL (United States, 10/2013).
			TWA: 2 mg/m <sup>3</sup> , (as Sn) 10 hours.
			OSHA PEL (United States, 6/2016).
			TWA: 2 mg/m <sup>3</sup> , (as Sn) 8 hours.
antimony			ACGIH (United States, 0/1989).
			TWA: 0.5 mg/m <sup>3</sup> ACGIH TLV (United States, 3/2016).
			TWA: 0.5 mg/m <sup>3</sup> , (as Sb) 8 hours.
			OSHA PEL 1989 (United States, 3/1989).
			TWA: 0.5 mg/m³, (as Sb) 8 hours.
			NIOSH REL (United States, 10/2013). TWA: 0.5 mg/m <sup>3</sup> , (as Sb) 10 hours.
			OSHA PEL (United States, 6/2016).
			TWA: 0.5 mg/m <sup>3</sup> , (as Sb) 8 hours.
copper			ACGIH TLV (United States, 3/2016).
			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/m³, (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, 10/2013).
			TWA: 1 mg/m <sup>3</sup> , (as Cu) 10 hours. Form:
ate of issue/Date of revision	: 4/10/2019	Date of previous issue	: 4/10/2019 Version : 0.02 4/1

# Section 8. Exposure controls/personal protection

Dusts and Mists         OSHA PEL (United States, 6/2016).         TWA: 1 mg/m³ 8 hours. Form: Dusts and         Mists         TWA: 0.1 mg/m³ 8 hours. Form: Fume         NIOSH (United States, 0/1989).         TWA: 1 mg/m³         OSHA (United States, 0/1989).         TWA: 0.1 mg/m³         Nickel         ACGIH TLV (United States, 3/2016).         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, 10/2013).         TWA: 0.015 mg/m³ (as Ni) 8 hours.         NIOSH REL (United States, 6/2016).         TWA: 0.1 mg/m³ (as Ni) 8 hours.         silver         ACGIH TLV (United States, 10/2013).         TWA: 0.015 mg/m³ (as Ni) 8 hours.         Silver         Silver         ACGIH TLV (United States, 10/2013).         TWA: 0.1 mg/m³ (as Ni) 8 hours.         TWA: 0.1 mg/m³ (as Ni) 8 hours. Form: Dust and fumes         NIOSH REL (United States, 10/2013).         TWA: 0.01 mg/m³ (as Ag) 10 hours. Form:         METAL DUST AND SOLUBLE         OSHA PEL (United States, 3/1989).         TWA: 0.01 mg/m³ (as Ag) 8 hours.         OSHA PEL (United States, 6/2016).		
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NIOSH REL (United States, 10/2013). TWA: 0.01 mg/m³, (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, 6/2016).		TWA: 0.1 mg/m <sup>3</sup> 8 hours. Form: Dust and
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METAL DUST AND SOLUBLE OSHA PEL 1989 (United States, 3/1989). TWA: 0.01 mg/m <sup>3</sup> , (as Ag) 8 hours. OSHA PEL (United States, 6/2016).		TWA: 0.01 mg/m <sup>3</sup> , (as Ag) 10 hours. Form:
TWA: 0.01 mg/m³, (as Ag) 8 hours. OSHA PEL (United States, 6/2016).		METAL DUST AND SOLUBLE
OSHA PEL (United States, 6/2016).		
TWA: 0.01 mg/m³, (as Ag) 8 hours.		OSHA PEL (United States, 6/2016).
		TWA: 0.01 mg/m³, (as Ag) 8 hours.

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 measure	<u>ures</u>	
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection		
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

# Section 8. Exposure controls/personal protection

-	
Body protection	<ul> <li>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.</li> </ul>
Other skin protection	<ul> <li>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.</li> </ul>
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

<u>Appearance</u>		
Physical state	:	Solid.
Color	:	Gray.
Odor	1	Odorless.
Odor threshold	1	Not available.
рН	1	Not applicable.
Melting point	1	238 to 349°C (460.4 to 660.2°F)
Boiling point	1	Not available.
Flash point	1	Not applicable.
Fire point	1	Not applicable.
Burning time	1	Not applicable.
Burning rate	1	Not applicable.
Evaporation rate	1	Not applicable.
Flammability (solid, gas)	1	Not available.
Lower and upper explosive (flammable) limits	:	Not available.
Vapor pressure	1	Not applicable.
Vapor density	1	Not available.
Relative density	1	Not available.
Solubility	:	Insoluble in the following materials: cold water, hot water, METHANOL, diethyl ether, n- octanol and acetone.
Solubility in water	1	Not applicable.
Partition coefficient: n- octanol/water	:	Not available.
Auto-ignition temperature	1	Not applicable.
Decomposition temperature	1	Not available.
Viscosity	1	Not available.
Flow time (ISO 2431)	1	Not available.
Molecular weight	4	Not applicable.
Type of aerosol	1	Not applicable.
Heat of combustion	1	Not applicable.
Ignition distance	4	Not applicable.
Enclosed space ignition - Time equivalent	:	Not applicable.
Enclosed space ignition - Deflagration density	:	Not applicable.
Flame height	:	Not applicable.
Flame duration	:	Not applicable.

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### 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
antimony	LD50 Oral LD50 Oral		100 mg/kg 7000 mg/kg	-
Nickel	LDLo Oral		5 mg/kg	-

#### Irritation/Corrosion

Not available.

#### **Sensitization**

Not available.

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

#### **Classification**

Product/ingredient name	OSHA	IARC	NTP
Nickel	-	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) Not available.

not available.

#### Aspiration hazard

Not available.

#### Information on the likely : Not available.

#### routes of exposure

#### Potential acute health effects

Date of issue/Date of revision : 4

# Section 11. Toxicological information

Eye contact	1	No known significant effects or critical hazards.
Inhalation	1	No known significant effects or critical hazards.
Skin contact	1	No known significant effects or critical hazards.
Ingestion	:	No known significant effects or critical hazards.
Symptoms related to the phy	<u>/sic</u>	al, chemical and toxicological characteristics
Eye contact	1	No specific data.
Inhalation	1	No specific data.
Skin contact	:	No specific data.
Ingestion	:	No specific data.
Delayed and immediate effect	<u>:ts</u>	and also chronic effects from short and long term exposure
<u>Short term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health eff	<u>ect</u>	<u>S</u>
Not available.		
General	:	No known significant effects or critical hazards.
Carcinogenicity	:	Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
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	2222.2 mg/kg

# Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure
antimony	Acute LC50 18000 µg/l	Daphnia - Daphnia magna	48 hours
-	Acute LC50 22 mg/l Fresh water	Fish - Pimephales promelas	96 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 subcapitata - Exponential growth phase	72 hours
	Acute IC50 5.4 mg/l Marine water	Aquatic plants - Plantae - Exponential growth phase	72 hours

# Section 12. Ecological information

48 hours 96 hours 72 hours 3 days 21 days 21 days
72 hours 3 days 21 days
3 days 21 days
3 days 21 days
21 days
21 days
-
-
21 days
6 weeks
4 days
-
4 days
48 hours
48 hours
96 hours
72 hours
4 weeks
4 days
48 hours
48 hours
96 hours
72 hours
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4

#### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
silver	-	70	low

#### Mobility in soil

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

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

# Section 13. Disposal considerations

of re via th W w sa cle Av	this product, solutions and any by-products should at all times comply with the quirements of environmental protection and waste disposal legislation and any gional local authority requirements. Dispose of surplus and non-recyclable products a a licensed waste disposal contractor. Waste should not be disposed of untreated to e sewer unless fully compliant with the requirements of all authorities with jurisdiction. /aste packaging should be recycled. Incineration or landfill should only be considered hen recycling is not feasible. This material and its container must be disposed of in a afe way. Care should be taken when handling emptied containers that have not been eaned or rinsed out. Empty containers or liners may retain some product residues. void dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
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# 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	-	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-	-
Packing group	-	-	-	-	-	-
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 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 exem	pted.
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	Not listed	

(Essential Chemicals)

#### SARA 302/304

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

				SARA 302 TPQ		SARA 304 RQ	
Name		%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
red phosphorus		≤0.1	Yes.	100	-	1	-
SARA 304 RQ	: 151515.2	lbs / 68787.9	) kg			-1	
<u>SARA 311/312</u>							
Classification	Delayed	(obronio) bool	th hozard				

Classification : Delayed (chronic) health hazard

**Composition/information on ingredients** 

# Section 15. Regulatory information

N	lame	hazard	Sudden release of pressure		(acute) health	Delayed (chronic) health hazard
	ntimony lickel	No. No.	No. No.	No. No.	Yes. No.	No. Yes.

#### **SARA 313**

	Product name	CAS number	%
Form R - Reporting requirements	antimony	7440-36-0	<5
	copper	7440-50-8	≤3
	Nickel	7440-02-0	≤0.3
Supplier notification	antimony	7440-36-0	<5
	copper	7440-50-8	≤3
	Nickel	7440-02-0	≤0.3

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; antimony; COPPER

**New York** 

: The following components are listed: Antimony; Copper; Nickel

**New Jersey** 

The following components are listed: TIN; antimony; COPPER; Nickel
The following components are listed: TIN; antimony; COPPER FUME; Nickel

#### Pennsylvania California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

Ingredient name	Cancer	Reproductive	level	Maximum acceptable dosage level
Nickel	Yes.	No.	No.	No.

#### International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals Not 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**

Date of issue/Date of revision	: 4/10/2019	Date of previous issue	: 4/10/2019	Version
New Zealand	: All compo	onents are listed or exempted	ed.	
Malaysia	: Not deter	mined.		
Japan	•	ventory (ENCS): Not deter ventory (ISHL): Not detern		
Europe	: All compo	onents are listed or exempted	ed.	
China	: All compo	onents are listed or exempted	ed.	
Canada	: All compo	onents are listed or exempted	ed.	
Australia	: All compo	onents are listed or exempted	ed.	
National inventory				

# Section 15. Regulatory information

Philippines	: All components are listed or exempted.
Republic of Korea	: All components are listed or exempted.
Taiwan	: All components are listed or exempted.
Turkey	: 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

		Justification           Calculation method				
CARCINOGENICITY - Cate	ARCINOGENICITY - Category 2					
History						
Date of printing	: 4/10/2019	)				
Date of issue/Date of revision	: 4/10/2019	)				
Date of previous issue	: 4/10/2019	)				
Version	: 0.02					
Key to abbreviations	BCF = Bi GHS = G IATA = In IBC = Inte IMDG = I LogPow = MARPOL as modifie	ternational Air Transport A ermediate Bulk Container nternational Maritime Dang - logarithm of the octanol/v = International Convention	oncentration Factor bally Harmonized System of Classification and Labelling of Chemicals rnational Air Transport Association nediate Bulk Container ernational Maritime Dangerous Goods bgarithm of the octanol/water partition coefficient International Convention for the Prevention of Pollution From Ships, 1973 by the Protocol of 1978. ("Marpol" = marine pollution)			
References	: Not availa	able.				
Date of issue/Date of revision	: 4/10/2019	Date of previous issue	: 4/10/2019	Version : 0.02 12		

### Section 16. Other information

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.