SAFETY DATA SHEET

REL22 M8



Safety Data Sheet according to GB/T 16483-2008 and GB/T 17519-2013

Section 1. Chem	ical product and company identification
GHS product identifier	: REL22 M8
GHS reference number	: GHS048
Product type	: Solid. [Solder Paste]
Identified uses	
Not applicable.	
Supplier's details	: International: AIM 9100 Henri Bourassa East Montreal, QC H1E 2S4 (514) 494-2000
	In China: AIM Solder (CHANGXING) Company Limited No.1208-D Chenwang Rd., Taihu St. Changxing County, Huzhou, Zhejiang 0572-6683800
	AIM Solder (SHANGHAI) Company., Limited Room 302-c50, No. 3, Lane 1509, Xinzhen Road, Minhang District, Shanghai 0572-6683800
	In Malaysia: AIM Solder (Malaysia) No. 2A, Jalan Industri Seri Juru, Taman Industri Seri Juru, 14000 Bukit Mertajam, Pulau Pinang, Malaysia +6012 800 1936
Emergency telephone number (with hours of operation)	: INFOTRAC North America: (800) 535-5053 International: (352) 323-3500
Section 2. Hazar	ds identification
Classification of the subst	ance or mixture according to GB 13690-2009 and GB 30000-2013

Classification of the subs	tance or mixture according to GB 13690-2009 and GB 30000-2013
Classification of the substance or mixture	: SKIN SENSITIZATION - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1
GHS label elements	
Hazard pictograms	
Signal word	: Warning
Hazard statements	: May cause an allergic skin reaction.

Very toxic to aquatic life with long lasting effects.

Precautionary statements

Section 2. Hazards identification

Prevention	:	Wear protective gloves. Avoid release to the environment. Avoid breathing dust. Contaminated work clothing should not be allowed out of the workplace.
Response	:	Collect spillage. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention.
Storage	1	Not applicable.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not	:	None known.

result in classification

Section 3. Composition/information on ingredients

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

CAS number/other identifiers

CAS number	: Not applicable.
EC number	: Mixture.

Ingredient name	%	CAS number	
Tin	70 - 95	7440-31-5	
Silver	0.1 - 10	7440-22-4	
Rosin, hydrogenated	0.1 - 10	65997-06-0	
bis(2-butoxyethyl) ether	0.1 - 10	112-73-2	
Copper	0.1 - 10	7440-50-8	
Nickel	0 - 0.1	7440-02-0	

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.

Section 4. First aid measures

Section 4. First al	
Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and ge medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Most important symptoms/e	
Potential acute health effe	<u>cts</u>
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.
Over-exposure signs/symp	<u>otoms</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	 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.
Specific hazards arising from the chemical	This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide 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.

Date of issue/Date of revision

Section 5. Fire-fighting measures

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

	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.
:	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".
	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
ont	ainment and cleaning up
:	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.
:	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.
	ont :

Section 7. Handling and storage

Dressutions for sofe handling			
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. Avoid release to the environment. 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, 3/2020). TWA: 2 mg/m ³ , (as Sn) 8 hours. Form: Inhalable fraction
Silver		ACGIH TLV (United States, 3/2020). TWA: 0.1 mg/m ³ 8 hours. Form: Dust and fumes
Copper		GBZ 2.1 (China, 8/2019). PC-TWA: 1 mg/m³, (as Cu) 8 hours. Form: dust
Nickel		ACGIH TLV (United States, 3/2020). TWA: 1.5 mg/m ³ 8 hours. Form: Inhalable fraction
Appropriate engineering controls	: Good general ventilatio contaminants.	n should be sufficient to control worker exposure to airborne
Environmental exposure controls	they comply with the re cases, fume scrubbers	tion or work process equipment should be checked to ensure quirements of environmental protection legislation. In some , filters or engineering modifications to the process ssary to reduce emissions to acceptable levels.
Individual protection measu	res	
Hygiene measures	eating, smoking and us Appropriate techniques Contaminated work clo	and face thoroughly after handling chemical products, before ing the lavatory and at the end of the working period. should be used to remove potentially contaminated clothing. thing should not be allowed out of the workplace. Wash before reusing. Ensure that eyewash stations and safety e workstation location.
Eye/face protection	assessment indicates t gases or dusts. If contained	ing with an approved standard should be used when a risk his is necessary to avoid exposure to liquid splashes, mists, act is possible, the following protection should be worn, indicates a higher degree of protection: safety glasses with
Skin protection		
Hand protection	be worn at all times wh this is necessary. Cons check during use that th should be noted that th different for different glo	pervious gloves complying with an approved standard should en handling chemical products if a risk assessment indicates sidering the parameters specified by the glove manufacturer, he gloves are still retaining their protective properties. It e time to breakthrough for any glove material may be ove manufacturers. In the case of mixtures, consisting of e protection time of the gloves cannot be accurately
Body protection		uipment for the body should be selected based on the task ne risks involved and should be approved by a specialist oduct.
Other skin protection	selected based on the	nd any additional skin protection measures should be task being performed and the risks involved and should be st before handling this product.
Respiratory protection	appropriate standard or	nd potential for exposure, select a respirator that meets the r certification. Respirators must be used according to a rogram to ensure proper fitting, training, and other important

Section 9. Physical and chemical properties

Appearance		
Physical state	:	Solid. [Solder Paste]
Color	:	Not available.
Odor	:	Not available.
Odor threshold	:	Not available.
рН	:	Not available.
Melting point	:	Not available.
Boiling point	:	Not available.
Flash point	:	Not applicable.
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Lower and upper explosive (flammable) limits	1	Not applicable.
Vapor pressure	:	Not available.
Vapor density	1	Not applicable.
Relative density	1	Not available.
Solubility	:	Not available.
Partition coefficient: n- octanol/water	:	Not applicable.
Auto-ignition temperature	1	Not applicable.
Decomposition temperature	1	Not available.
Viscosity	:	Not applicable.
1		

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

Product/ingredient name	Result		Specie	S	Dose		Exposure
Rosin, hydrogenated	LD50 Oral		Rat		>32000 mg/kg		-
bis(2-butoxyethyl) ether	LD50 Oral				mg/kg	-	
· · · · · · · · · · · · · · · · · · ·	LD50 Oral		Rat		3900	mg/kg	-
Nickel	LDLo Oral		Guinea	pig	5 mg	/kg	-
rritation/Corrosion	·						·
Product/ingredient name	Result	Spec	cies	Sco	re	Exposure	Observation
bis(2-butoxyethyl) ether	Skin - Mild irritant	Rabb	oit	-		500 mg	-

Date of issue/Date of revision

: 5/6/2024 Date of previous issue

issue : 4/24/2024

Version : 0.2 6/11

Section 11. Toxicological information

Sensitization

No known significant effects or critical hazards.

Mutagenicity

No known significant effects or critical hazards.

Carcinogenicity

No known significant effects or critical hazards.

Reproductive toxicity

No known significant effects or critical hazards.

Teratogenicity

No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

No known significant effects or critical hazards.

Specific target organ toxicity (repeated exposure)

No known significant effects or critical hazards.

Aspiration hazard

No known significant effects or critical hazards.

Information on the likely routes of exposure	:	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.
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.
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

<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 effe	ect	<u>></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.
Date of issue/Date of revision		: 5/6/2024 Date of previous issue : 4/24/2024 Version : 0.2 7/11

Section 11. Toxicological information

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.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	195000 mg/kg

Other information	 To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution.
	Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Section 12. Ecological information

Toxicity

Acute LC50 11 µg/l Fresh water Acute LC50 2.13 µg/l Fresh water Chronic NOEC 5 mg/l Marine water Acute LC50 134 mg/l Marine water Acute LC50 134 mg/l Marine water Acute LC50 134 mg/l Marine waterCrustaceans - Ceriodaphnia Fish - Pimephales promelas Algae - Glenodinium halli Crustaceans - Chaetogammarus marinus - Young48 hou Crustaceans - Chaetogammarus marinus - YoungCopperAcute EC50 1100 µg/l Fresh water Acute EC50 1 µg/l Fresh waterAquatic plants - Lemna minor Crustaceans - Ceriodaphnia dubia - Juvenile (Fledgling, Hatchling, Weanling)4 days 48 houAcute EC50 2.1 µg/l Fresh waterAquatic plants - Lemna minor Juvenile (Fledgling, Hatchling, Weanling)48 hou 48 houAcute IC50 13 µg/l Fresh waterAlgae - Pseudokirchneriella growth phase72 hou sucapitata - Exponential growth phase72 hou sucapitata - Exponential growth phaseAcute IC50 5.4 mg/l Marine waterAlgae - Netzschia closterium - Exponential growth phase72 hou sucapitata - Exponential growth phaseChronic NOEC 2.5 µg/l Marine waterAlgae - Caratophyllum demersum3 days days demersumChronic NOEC 0.02 mg/l Fresh water Chronic NOEC 0.02 mg/l Fresh waterCrustaceans - Cambarus bartonii - Mature Daphnia - Daphnia magna Fish - Orecchromis niloticus - Juvenile (Fledgling, Hatchling, Weanling)21 days bartonii - Mature Daphnia magna Fish - Orecchromis niloticus - Juvenile (Fledgling, Hatchling, Weanling)NickelAcute EC50 2 ppm Marine waterAlgae - Macrocystis pyrifera - Young4 days	Product/ingredient name	Result	Species	Exposure
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Acute IC50 5.4 mg/l Marine waterAquatic plants - Plantae - Exponential growth phase72 hou Exponential growth phaseChronic NOEC 2.5 µg/l Marine waterAlgae - Nitzschia closterium - Exponential growth phase72 hou Exponential growth phaseChronic NOEC 7 mg/l Fresh waterAquatic plants - Ceratophyllum demersum3 days demersumChronic NOEC 0.02 mg/l Fresh waterCrustaceans - Cambarus bartonii - Mature21 days bartonii - MatureChronic NOEC 2 µg/l Fresh waterDaphnia - Daphnia magna Fish - Oreochromis niloticus - Juvenile (Fledgling, Hatchling, Weanling)21 days 4 days Young		Acute IC50 13 µg/l Fresh water	subcapitata - Exponential	72 hours
Chronic NOEC 2.5 µg/l Marine waterAlgae - Nitzschia closterium - Exponential growth phase72 hou Exponential growth phaseChronic NOEC 7 mg/l Fresh waterAquatic plants - Ceratophyllum demersum3 days demersumChronic NOEC 0.02 mg/l Fresh waterCrustaceans - Cambarus bartonii - Mature21 days bartonii - MatureChronic NOEC 2 µg/l Fresh water Chronic NOEC 0.8 µg/l Fresh waterDaphnia - Daphnia magna Fish - Oreochromis niloticus - Juvenile (Fledgling, Hatchling, Weanling)21 days 6 weekNickelAcute EC50 2 ppm Marine waterAlgae - Macrocystis pyrifera - Young4 days		Acute IC50 5.4 mg/I Marine water	Aquatic plants - Plantae -	72 hours
Image: Construct of the constructionImage: Construction<		Chronic NOEC 2.5 µg/l Marine water	Algae - Nitzschia closterium -	72 hours
bartonii - Mature21 daysChronic NOEC 2 μg/l Fresh waterDaphnia - Daphnia magna21 daysChronic NOEC 0.8 μg/l Fresh waterFish - Oreochromis niloticus - Juvenile (Fledgling, Hatchling, Weanling)6 weekNickelAcute EC50 2 ppm Marine waterAlgae - Macrocystis pyrifera - Young4 days		Chronic NOEC 7 mg/l Fresh water	Aquatic plants - Ceratophyllum	3 days
Chronic NOEC 0.8 µg/l Fresh waterFish - Oreochromis niloticus - Juvenile (Fledgling, Hatchling, Weanling)6 week 9 weekNickelAcute EC50 2 ppm Marine waterAlgae - Macrocystis pyrifera - Young4 days		Chronic NOEC 0.02 mg/l Fresh water		21 days
Nickel Acute EC50 2 ppm Marine water Young Young Juvenile (Fledgling, Hatchling, Weanling)		Chronic NOEC 2 µg/l Fresh water	Daphnia - Daphnia magna	21 days
Nickel Acute EC50 2 ppm Marine water Algae - Macrocystis pyrifera - Young 4 days		Chronic NOEC 0.8 µg/l Fresh water	Juvenile (Fledgling, Hatchling,	6 weeks
	Nickel	Acute EC50 2 ppm Marine water	Algae - Macrocystis pyrifera -	4 days
		Acute EC50 450 µg/l Fresh water	Aquatic plants - Lemna minor	4 days

Section 12. Ecological information

Acute EC50 1000 µg/l Marine water	Daphnia - Daphnia magna	48 hours
Acute IC50 0.31 mg/I Marine water	Crustaceans - Americamysis	48 hours
	bahia - Juvenile (Fledgling,	
	Hatchling, Weanling)	
Acute LC50 1.3 ppm Fresh water	Fish - Cyprinus carpio - Juvenile	96 hours
	(Fledgling, Hatchling, Weanling)	
Chronic NOEC 100 mg/l Marine water	Algae - Glenodinium halli	72 hours
Chronic NOEC 3.5 µg/l Fresh water	Fish - Cyprinus carpio	4 weeks

Persistence/degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Silver	-	70	low
Rosin, hydrogenated	3.42	-	low
bis(2-butoxyethyl) ether	1.92	-	low

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. 2 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.

UN IMDG ΙΑΤΑ China **UN number** Not regulated. Not regulated. Not regulated. Not regulated. **UN proper** shipping name **Transport hazard** class(es) Packing group **Environmental** No. No. No. No. hazards **Additional** information Date of issue/Date of revision Date of previous issue : 4/24/2024 Version : 0.2 9/11 : 5/6/2024

Section 14. Transport information

Section 14. Transport 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.

Section 15. Regulatory information

Safety, health and
environmental regulations
specific for the product: No known specific national and/or regional regulations applicable to this product
(including its ingredients).China inventory (IECSC): Not determined.

List of Goods banned for Importing

None of the components are listed.

List of Goods banned for Exporting

None of the components are listed.

List of Toxic Chemicals Severely Restricted for Importing & Exporting by China

None of the components are listed.

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 Protoco	ol on POPs and Heavy Metals
Not listed.	
International lists	
National inventory	
Australia	: Not determined.
Canada	: Not determined.
Europe	: Not determined.
Japan	: Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.
Malaysia	: Not determined
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: Not determined.
United States	: Not determined.

Section 16. Other information

Date of issue/Date of revision	: 5/6/2024	Date of previous issue	: 4/24/2024	Version : 0.	2 10/11
Version	: 0.2				
Date of previous issue	: 4/24/2024				
Date of issue/Date of revision	: 5/6/2024				
Date of printing	: 5/6/2024				
<u>History</u>					

Section 16. Other information

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 = International Air Transport Association IBC = 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

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed 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.