

SAFETY DATA SHEET

Section 1. Identification

Manufactured For Kimball Midwest

4800 Roberts Rd Columbus, OH 43228 Tel: (800) 233-1294

Emergency telephone

number

(800)424-9300 (24 Hours) Chemtrec

Product name Metal Master Aluminum

Code 80-208

Specific uses Sealants and adhesives

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 SKIN IRRITATION - Category 2 substance or mixture EYE IRRITATION - Category 2A

GHS label elements
Hazard pictograms



Signal word Warning!

Hazard statements Causes serious eye irritation.

Causes skin irritation.

Precautionary statements

Prevention Wear protective gloves. Wear eye or face protection. Wash hands thoroughly after

handling.

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

wash it before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

1/13

easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Storage Not applicable.

Disposal Not applicable.

Hazards not otherwise None known.

classified

Date of issue/Date of revision 26 July 2019 Date of previous issue No previous validation. Version 1

Section 3. Composition/information on ingredients

Substance/mixture

Mixture

United States

Ingredient name	% by weight	CAS number
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin 2,4,6-tris(dimethylaminomethyl)phenol	10 - 30 1 - 5	25068-38-6 90-72-2
crystalline silica, non-respirable	0.1 - 1	14808-60-7

Canada

Name	%	CAS number
Talc (none asbestiform)	30 - 60	14807-96-6
Epichlorhydrin-bisphenol A resin	10 - 30	25068-38-6
Aluminum (powder)	1 - 5	7429-90-5
glass, oxide, chemicals	1 - 5	65997-17-3
Quartz	0.1 - 1	14808-60-7

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

Description of necessary first aid measures

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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin contact

Inhalation

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.

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.

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

Inhalation No known significant effects or critical hazards.

Skin contact Causes skin irritation.

Eye contact Causes serious eye irritation.

Ingestion No known significant effects or critical hazards.

Date of issue/Date of revision26 July 2019Date of previous issueNo previous validation.Version 12/13

Section 4. First aid measures

Over-exposure signs/symptoms

Inhalation No specific data.

Skin contact Adverse symptoms may include the following:

> irritation redness

Eye contact Adverse symptoms may include the following:

> pain or irritation watering

redness

Ingestion No specific data.

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

Notes to physician In case of inhalation of decomposition products in a fire, symptoms may be delayed. The

Use an extinguishing agent suitable for the surrounding fire.

exposed person may need to be kept under medical surveillance for 48 hours.

No specific treatment. **Specific treatments**

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

media

Unsuitable extinguishing

media

None known.

Specific hazards arising

from the chemical

No specific fire or explosion hazard.

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



Flammability

Instability/Reactivity

Special

Hazardous thermal decomposition products Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides sulfur oxides

halogenated compounds metal oxide/oxides

Special protective actions

for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable

training.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing

apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Date of issue/Date of revision 26 July 2019 Date of previous issue No previous validation. Version 1 3/13

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill

Move containers from spill area. Avoid dust generation. 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

Conditions for safe storage, including any incompatibilities

Do not store above the following temperature: 35°C (95°F). 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. Shelf life: 24.

Precautions for safe handling

Protective measures

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. 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.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	CAS#	Exposure limits
crystalline silica, non-respirable	14808-60-7	OSHA PEL (United States, 5/2018). TWA: 50 μg/m³ 8 hours. Form: Respirable dust OSHA PEL Z3 (United States, 6/2016). TWA: 30 mg/m³ / (%SiO2+2) 8 hours. Form: Total dust

Date of issue/Date of revision 26 July 2019 Date of previous issue No previous validation. Version 1 4/13

Section 8. Exposure controls/personal protection

Canada

Ingredient name

Talc (none asbestiform)

Aluminum (powder)

glass, oxide, chemicals

Exposure limits

CA British Columbia Provincial (Canada, 7/2018).

TWA: 2 mg/m³ 8 hours. Form: Respirable TWA: 0.1 f/cc 8 hours.

CA Quebec Provincial (Canada, 1/2014).

TWAEV: 3 mg/m³ 8 hours. Form: Respirable dust.

CA Ontario Provincial (Canada, 1/2018).

TWA: 2 mg/m³ 8 hours. Form: Respirable fraction.

TWA: 2 f/cc 8 hours.

CA Alberta Provincial (Canada, 6/2018).

8 hrs OEL: 2 mg/m³ 8 hours. Form:

Respirable particulate

CA Saskatchewan Provincial (Canada, 7/2013).

TWA: 2 mg/m³ 8 hours. Form: respirable fraction

CA Alberta Provincial (Canada, 6/2018).

8 hrs OEL: 10 mg/m³ 8 hours. Form: Metal Dust

CA Saskatchewan Provincial (Canada, 7/2013).

STEL: 20 mg/m³, (measured as Al) 15 minutes. Form: Metal dust

TWA: 10 mg/m³, (measured as Al) 8 hours.

Form: Metal dust

STEL: 10 mg/m³, (measured as Al) 15

minutes. Form: Pyro powder

TWA: 5 mg/m³, (measured as Al) 8 hours.

Form: Pyro powder

CA British Columbia Provincial (Canada, 7/2018).

TWA: 1 mg/m³ 8 hours. Form: Respirable CA Ontario Provincial (Canada, 1/2018).

TWA: 1 mg/m³ 8 hours. Form: Respirable fraction.

CA Quebec Provincial (Canada, 1/2014).

TWAEV: 10 mg/m³, (as Al) 8 hours.

CA Alberta Provincial (Canada, 6/2018).

8 hrs OEL: 1 f/cc 8 hours. Form: Fibres

8 hrs OEL: 5 mg/m³ 8 hours. Form: Fibres

8 hrs OEL: 5 mg/m³ 8 hours. Form: Fibres, total particulate

CA British Columbia Provincial (Canada, 7/2018).

TWA: 5 mg/m³ 8 hours. Form: Inhalable TWA: 1 f/cc 8 hours.

CA Ontario Provincial (Canada, 1/2018).

TWA: 5 mg/m³ 8 hours. Form: Inhalable fraction.

CA Quebec Provincial (Canada, 1/2014).

TWAEV: 1 f/cc 8 hours. Form: RESPIRABLE FIBRES (other than respirable asbestos fibres): Objects, other than respirable asbestos fibres, longer than 5 µm, having a diameter of less

Date of issue/Date of revision

Section 8. Exposure controls/personal protection

than 3 µm and a ratio of length to diameter of

more than 3:1.

TWAEV: 10 mg/m³ 8 hours. Form: Total dust.

Quartz

CA Quebec Provincial (Canada, 1/2014).

TWAEV: 0.1 mg/m³ 8 hours. Form:

Respirable dust.

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 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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

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.

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.

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: chemical splash goggles.

Section 9. Physical and chemical properties

Physical state Solid.

Color Gray. [Dark]

Odor Pungent. Sulfurous. [Strong]

Odor threshold

pH

Not available.

Melting point

Not available.

Boiling point

Not available.

Flash point Closed cup: Not applicable. [Product does not sustain combustion.]

Date of issue/Date of revision26 July 2019Date of previous issueNo previous validation.Version 16/13

Section 9. Physical and chemical properties

Evaporation rate

Flammability (solid, gas)

Lower and upper explosive

Not available.

Not available.

(flammable) limits

Vapor pressureNot available.Vapor densityNot available.

Relative density 1.93

Solubility Partially soluble in the following materials: methanol, diethyl ether, n-octanol and

acetone.

Insoluble in the following materials: cold water and hot water.

Solubility in water

Auto-ignition temperature

Decomposition temperature

Not applicable.

Not available.

>150°C (>302°F)

Viscosity Kinematic (room temperature): Not applicable.

Kinematic (40°C (104°F)): Not applicable.

VOC 0.296 lbs/gal (35.4 g/l)

Aerosol product

Section 10. Stability and reactivity

ReactivityNo 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
2,4,6-tris (dimethylaminomethyl)phenol	LD50 Dermal	Rat	1280 mg/kg	-
(* **) ** ** ** ** ** **	LD50 Oral	Rat	1200 mg/kg	-

Irritation/Corrosion

Date of issue/Date of revision 26 July 2019 Date of previous issue No previous validation. Version 1 7/13

Section 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin	Eyes - Mild irritant	Rabbit	-	100 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 microliters	-
	Skin - Severe irritant	Rabbit	-	24 hours 2 milligrams	-
2,4,6-tris (dimethylaminomethyl)phenol	Eyes - Severe irritant	Rabbit	-	24 hours 50 Micrograms	-
` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	Skin - Mild irritant	Rat	-	0.025 Mililiters	-
	Skin - Severe irritant	Rat	-	0.25 Mililiters	-
	Skin - Severe irritant	Rabbit	-	24 hours 2 milligrams	-

Sensitization

No specific data.

Mutagenicity

No specific data.

Carcinogenicity

No specific data.

Conclusion/Summary

: This product contains talc in a polymer matrix. Sanding the cured product may release particles containing talc with the polymer and other components of the matrix into the air. The talc contains less than 1% crystalline silica. Appropriate evaluations of the use of the product should be performed to determine if exposure to talc occurs due to handling and use. If such exposures occur, appropriate precautions must be taken to prevent exposure in excess of the OSHA Permissible Exposure Limit (PEL). IARC classifies TiO2 as a 2B carcinogen based in large part on several studies of the effects of the inhalation of TiO2 on animals in which the TiO2 particles were of various sizes. Particles defined as "ultrafine" have been shown to cause cancer in animals exposed to very high concentrations. A number of authorities have reviewed those studies and others involving exposure to ultrafine particles and have concluded that the effects result from overloading the respiratory system of the animals. The effects observed, according to the scientists, are not due to TiO2 but are general responses to high levels of dust in the lungs. In addition, a carcinogenic effect of TiO2 dust in the workers was not observed in several epidemiology studies on more than 20,000 TiO2 industry workers in Europe and the USA, nor were other chronic diseases, including other respiratory diseases, associated with exposure to TiO2 dust. Accordingly, we have concluded that our products should not be classified on the basis of the presence of TiO2 in the products.

Classification

Product/ingredient name	OSHA	IARC	NTP
crystalline silica, non-	-	1	Known to be a human carcinogen.
respirable			

Reproductive toxicity

No specific data.

Teratogenicity

No specific data.

Specific target organ toxicity (single exposure)

No specific data.

Specific target organ toxicity (repeated exposure)

No specific data.

Aspiration hazard

Date of issue/Date of revision 26 July 2019 Date of previous issue No previous validation. Version 1 8/13

Section 11. Toxicological information

No specific data.

Information on the likely

routes of exposure

Not available.

Potential acute health effects

Eye contact Causes serious eye irritation.

Inhalation No known significant effects or critical hazards.

Skin contact Causes skin irritation.

Ingestion No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact Adverse symptoms may include the following:

pain or irritation

watering

redness

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

Short term exposure

Potential immediate Not available.

effects

Potential delayed effects Not available.

Long term exposure

Potential immediate Not available.

effects

Potential delayed effects Not available.

Potential chronic health effects

No specific data.

GeneralNo known significant effects or critical hazards.CarcinogenicityNo known significant effects or critical hazards.MutagenicityNo known significant effects or critical hazards.TeratogenicityNo known significant effects or critical hazards.Developmental effectsNo known significant effects or critical hazards.Fertility effectsNo known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	3042.2 mg/kg
Dermal	3245 mg/kg

Date of issue/Date of revision 26 July 2019 Date of previous issue No previous validation. Version 1 9/13

Section 12. Ecological information

Toxicity

No specific data.

Persistence and degradability

No specific data.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin	2.64 to 3.78	31	low
2,4,6-tris (dimethylaminomethyl)phenol	0.219	-	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. 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.

RCRA classification

Not applicable.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
UN Number	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.

Date of issue/Date of revision 26 July 2019 Date of previous issue No previous validation. Version 1 10/13

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

United States

U.S. Federal regulations TSCA 8(a) PAIR: Siloxanes and Silicones, di-Me, reaction products with silica

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

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

Clean Water Act (CWA) 307: zinc sulphide; zinc oxide

Clean Water Act (CWA) 311: acetic acid

Clean Air Act Section 112

(b) Hazardous Air Pollutants (HAPs) Ingredient name Conc. (% w/w)

Fine mineral fibers 1 - 5

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ Not applicable.

SARA 311/312

Classification SKIN IRRITATION - Category 2

EYE IRRITATION - Category 2A

Composition/information on ingredients

Name	%	Classification
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin	≥10 - ≤25	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A
Aluminium powder (stabilized)	≤5	HNOC - Water-reactive (toxic gas)
2,4,6-tris(dimethylaminomethyl) phenol	≤2.6	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 SKIN IRRITATION - Category 2
crystalline silica, non-respirable	≤1	EYE IRRITATION - Category 2A CARCINOGENICITY - Category 1A

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	Aluminium powder (stabilized)	7429-90-5	1 - 5

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: TALC; SOAPSTONE; FIBROUS GLASS;

ALUMINUM

New York None of the components are listed.

New Jersey The following components are listed: SOAPSTONE; SILICA, QUARTZ; QUARTZ

(SiO2); ALUMINUM

Pennsylvania The following components are listed: TALC; SOAPSTONE DUST; QUARTZ DUST;

QUARTZ; ALUMINUM

Date of issue/Date of revision 26 July 2019 Date of previous issue No previous validation. Version 1 11/13

Section 15. Regulatory information

Minnesota Hazardous

None of the components are listed.

Substances

California Prop. 65



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

Ingredient name	Cancer	Reproductive	Maximum acceptable dosage level
crystalline silica, non-respirable	Yes.	No.	-

Not applicable

Canada

Canadian lists

Canadian NPRI The following components are listed: aluminum (fume or dust only)

CEPA Toxic substances None of the components are listed.

EU Regulation (EC) No. 1907/2006 (REACH)

Substances of very high concern

None of the components are listed.

Inventory list

Australia : All components are listed or exempted.

Canada : All components are listed or exempted.

China : All components are listed or exempted.

Europe : All components are listed or exempted.

Japan inventory (ENCS): Not determined.

Japan inventory (ISHL): Not determined.

Malaysia : Not determined.

New Zealand : All components are listed or exempted.

Philippines : All components are listed or exempted.

Republic of Korea : All components are listed or exempted.

Taiwan : All components are listed or exempted.

Thailand : Not determined.

Turkey : Not determined.

United States : All components are listed or exempted.

Viet Nam : Not determined.

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 = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

References Not available.

Indicates information that has changed from previously issued version.

Date of issue/Date of revision26 July 2019Date of previous issueNo previous validation.Version 112/13

Section 16. Other information

Notice to reader

The data in this Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material in any process. The information set forth herein is furnished free of charge and is based on technical data that the supplier believes to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside of the supplier's control, the supplier makes no warranties, expressed or implied, and assumes no liability in connection with any use of this information. Nothing herein is to be taken as a license to operate under, or a recommendation to infringe upon, any patents.

Date of issue/Date of revision 26 July 2019 Date of previous issue No previous validation. Version 1 13/13