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IMPORTANT: EMERGENCY CONTACT INFORMATION IS ENCLOSED.

Dear Customer,

Enclosed please find the Safety Data Sheet (SDS) for the **Appleton® KWIKO-A and Fiber Filler**.

This product is purchased from the manufacturer by Appleton and is distributed with no modification other than packaging, as applicable. Questions regarding application and use may be directed to Appleton Technical Support.

Any questions regarding the composition, safe use or potential hazards associated with this material that are not answered in the SDS should be directed to the manufacturer.

Thank you for your support of Appleton and our extensive product line.

Safety Data Sheet

SECTION I - PRODUCT IDENTIFICATION

Trade Name: **Kwiko A Sealing Cement**
Product Code: AC1A, AC1F01A, AC5A, ACK12FA, ACK6FA, AC50A
Manufacturer: Metalcrete Industries
4133 Payne Avenue
Cleveland, Ohio 44103
Recommended Use: Poured in sealing fittings; hardens to contain and restrict the passage of gases.
Telephone: 1-440-526-5600
Emergency Phone: 1-800-633-8253

SECTION 2 – HAZARDS IDENTIFICATION

Physical hazards: Not classified.
Health hazards: Carcinogenicity Category 1A
Skin Corrosion Category 1B
Skin Sensitization Category 1B
Specific Target Organ Toxicity Repeat Exposure Category 1
Specific Target Organ Toxicity Repeat Exposure Category 3

Label elements:



Signal word: Danger

Hazard statement: May cause cancer through chronic inhalation. Causes severe skin burns and serious eye damage. May cause an allergic skin reaction. Causes damage to lungs through prolonged or repeated inhalation. May cause respiratory irritation.

Precautionary statements:

Prevention: Do not handle until all safety precautions have been read and understood. Wear impervious gloves, such as nitrile. Wear eye protection, and protective clothing. Do not eat, drink, or smoke when using this product. Wash thoroughly after handling. Use only in a well-ventilated area. Do not breathe dust.

Response: If swallowed: Rinse mouth. Do NOT induce vomiting. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If on skin (or hair): Remove immediately all contaminated clothing and wash before re-use. Rinse skin or hair with water. If significant skin irritation or rash occurs: Get medical advice or attention.

Immediately seek medical advice or attention if symptoms are significant or persist.

Storage: Store in a cool, well-ventilated place. Store in a dry place in a closed container.

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional Information: Precautions must be observed because burns occur with little warning -- little heat is sensed.

HNOC – Hazards not otherwise classified: Not applicable

Unknown Acute Toxicity: None

WHMIS Classification

Class D2B – Skin/Eye Irritant

Class D2A – Chronic Toxic Effects – Carcinogen

Class E – Corrosive Material

Signal Word: Danger



SECTION 3 – PRODUCT COMPOSITION

Chemical Name	CAS Number	Percentage
Cement, Alumina	65997-16-2	40.0 – 70.0*
Calcium Sulfate Hemihydrate	26499-65-0	20.0 – 50.0*
Cement, Slag	65996-69-2	5.0 – 25.0*

*The concentrations ranges are provided due to batch-to-batch variability. None of the constituents of this material are of unknown toxicity.

SECTION 4 – FIRST AID MEASURES

After inhalation: Remove person to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration. In case of unconsciousness, place patient stably in side position for transportation.

After skin contact: Wash skin with cool water and pH-neutral soap or a mild detergent. If significant skin irritation or rash occurs: get medical advice or attention.

After eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

After swallowing: Do not induce vomiting. If conscious, have the victim drink plenty of water and call a physician immediately. Never give anything by mouth to an unconscious person.

Most important symptoms / effects, acute and delayed:

Inhalation: May cause respiratory tract irritation. Causes damage to organs through prolonged or repeated inhalation. This product contains crystalline silica. Prolonged or repeated inhalation of respirable silica from this product can cause silicosis.

Skin contact: Causes skin irritation. Handling can cause dry skin, discomfort, irritation, and dermatitis. May cause sensitization by skin contact. Product becomes extremely alkaline when exposed to moisture, and can cause alkali burns and affect the mucous membranes. Precautions must be observed because burns occur with little warning -- little heat is sensed.

Eye Contact: Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

Ingestion: May be harmful if swallowed. Ingestion may cause discomfort and/or distress, nausea or vomiting.

Indication of immediate medical attention and special treatment needed:

Immediately seek medical advice or attention if symptoms are significant or persist.

SECTION 5 – FIRE-FIGHTING MEASURES

Flammability of the Product: Non-flammable and non-combustible

Suitable extinguishing agents: Treat for surrounding material

Special hazards arising from the substance or mixture: None

Products of Combustion: None

Explosion Hazards in Presence of Various Substances: Non-explosive in presence of shocks

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Avoid creating excessive dust. Dampen material with water to control dusting. Sweep up and transfer into an appropriate container for disposal. Dispose of this material in accordance with federal, state and local regulations. Do not put down sink as slurry material may plug drains.

SECTION 7 – HANDLING AND STORAGE

Precautions for safe handling: Ensure good ventilation/exhaustion at the workplace. DO NOT BREATHE DUST. In dusty environments, the use of an OSHA, MSHA or NIOSH approved respirator and tight-fitting goggles is recommended. Wear appropriate PPE (See section 8). Do not mix with other chemical products, except as indicated by the manufacturer. Do not get in eyes, on skin or clothing. Good housekeeping is important to prevent accumulation of dust.

Storage

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep out of the reach of children. Keep container tightly closed and prevent exposure to humidity. Do not allow water to contact the product until time of use to preserve product utility.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTION EQUIPMENT

Eye protection:	Wear appropriate eye protection such as safety goggles or face shields. Avoid contact eyes and face while handling this material. If eyes become contaminated, use eye wash station.
Respiratory protection:	Wear appropriate NIOSH approved dust respirator when airborne dust levels exceed threshold limit value as indicated on manufacturer's SDS.
Skin protection:	Wear impervious protective gloves. In addition to protecting hands, make sure suitable protective clothing is worn by material handlers to prevent skin irritation elsewhere on body.
Engineering Controls:	This material should be used in well ventilated areas. Mechanical and local exhausts should be used in poorly ventilated areas.

EXPOSURE LIMITS

Chemical Name	CAS Number	Regulation	Limit	
Cement, Alumina	65997-16-2	OSHA PEL	5.0 mg/m ³	Respirable
		OSHA PEL	15 mg/m ³	Total
		TLV (ACGIH)	5.0 mg/m ³	Respirable
		TLV (ACGIH)	10 mg/m ³	Inhalable
Calcium Sulfate Hemihydrate	26499-65-0	OSHA PEL	5.0 mg/m ³	Respirable
		OSHA PEL	15 mg/m ³	Total
		TLV (ACGIH)	10 mg/m ³	Inhalable
		TLV (ACGIH)	5.0 mg/m ³	Respirable

Cement, Slag	65996-69-2	OSHA PEL	5.0 mg/m ³	Respirable
		OSHA PEL	15 mg/m ³	Total Dust
		TLV (ACGIH)	3.0 mg/m ³	Respirable
		TLV (ACGIH)	10 mg/m ³	Total
Crystalline Silica (Quartz)	14808-60-7	OSHA PEL	0.3 mg/m ³	Total
		OSHA PEL	0.05 mg/m ³	Respirable
		TLV (ACGIH)	0.025 mg/m ³	Respirable
		REL (NIOSH)	0.05 mg/m ³	Respirable
Calcium Oxide	1305-78-8	OSHA PEL	5.0 mg/m ³	8 Hours
		TLV (ACGIH)	2.0 mg/m ³	8 Hours
		REL (NIOSH)	2.0 mg/m ³	10 Hours
Magnesium Oxide	1309-48-4	OSHA PEL	15.0 mg/m ³	Total
		TLV (ACGIH)	10.0 mg/m ³	Inhalable

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form:	Granular Solid
Color:	Gray to Gray-Brown
Odor:	Odorless
pH at 20°C (68 °F):	13 (10%)
Specific gravity:	2.6 to 3.15
Solubility in water:	Not soluble.
Flash Point:	Not applicable.
Auto Igniting:	Product is not self-igniting
VOC Content:	0 g/L VOC

SECTION 10 – STABILITY AND REACTIVITY

Reactivity: No dangerous reaction known under conditions of normal use.

Chemical stability: Stable under normal storage conditions. Keep in dry storage.

Possibility of hazardous reaction: No dangerous reaction known under conditions of normal use.

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Incompatible materials: Contact of silica with powerful oxidizing agents such as fluorine, chlorine trifluoride, manganese trioxide, or oxygen difluoride may cause fires.

Hazardous Decomposition or By-products: Silica will dissolve in Hydrofluoric Acid and produce a corrosive gas – silicon tetrafluoride.

SECTION 11 – TOXICOLOGICAL INFORMATION

TOXICOLOGICAL OVERVIEW

Kwiko A Sealing Cement is a gray to gray-brown powder material. Dust in air may irritate respiratory tract and eyes. Do not breathe in dust. Use a respirator while using this product. If overexposed to dust, leave the area immediately to breathe fresh air.

ACUTE HEALTH EFFECTS OF EXPOSURE & ROUTES OF EXPOSURE

Eyes: Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

Ingestion: Harmful if swallowed. Ingestion may cause discomfort and/or distress, nausea or vomiting.

Inhalation: May cause respiratory tract irritation. Causes damage to organs through prolonged or repeated exposure. This product contains crystalline silica. Prolonged or repeated inhalation of respirable silica from this product can cause silicosis.

Skin: Causes skin irritation. Handling can cause dry skin, discomfort, irritation, and dermatitis. May cause sensitization by skin contact. Product becomes extremely alkaline when exposed to moisture, and can cause alkali burns and affect the mucous membranes.

Delayed, immediate and chronic effects of short-term and long-term exposure

Short Term

Skin Corrosion/Irritation: Causes severe skin burns.

Serious Eye Damage/Irritation: Causes severe eye damage.

Respiratory Sensitization: Not available

Skin Sensitization: May cause an allergic skin reaction.

Specific Target Organ Toxicity-Single Exposure: (Category 3) May cause respiratory irritation.

Aspiration Hazard: Not available

Long Term

Carcinogenicity: May cause cancer through chronic inhalation.

Germ Cell Mutagenicity: Not available

Reproductive Toxicity: Not available

Specific Target Organ Toxicity- Repeated Exposure: (Category 1) Causes damage to lungs through prolonged/repeated exposure

Synergistic/Antagonistic Effects: Not available.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity: May cause long-term adverse effects to the aquatic environment. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or un-neutralized.

Persistence and degradability: No further relevant information available.

Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

Other Adverse Effects: No further relevant information available.

SECTION 13 – DISPOSAL CONSIDERATION

Waste Disposal Method: The packaging and material may be land filled; however, material should be covered to minimize generation of airborne dust. This product is not classified as a hazardous waste under the authority of the RCRA (40CFR 261) or CERCLA (40CFR 117&302). Disposal must be made in accordance with local, state and federal regulations.

SECTION 14 – TRANSPORT INFORMATION

	DOT (U.S.)	TDG (Canada)
UN Number	Not Regulated	Not Regulated
UN Proper Shipping Name	Not Regulated	Not Regulated
Transport Hazard Class(es)	Not Regulated	Not Regulated
Packing Group (if applicable)	Not Regulated	Not Regulated

Environmental Hazards: Not Available

Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code: Not Available

Special Precautions for user: Do not handle until all safety precautions have been read and understood.

SECTION 15 – REGULATORY INFORMATION

Safety, Health and Environmental Regulations/Legislations specific for the chemical

Canada

WHMIS Classification: Considered to be a hazardous material under the Hazardous Products Act as defined by the Controlled Products Regulations and subject to the requirements of Health Canada's Workplace Hazardous Material Information (WHMIS). This document complies with the WHMIS requirements of the Hazardous Products Act (HPA) and the CPR.

US Federal Information

SARA 302/311/312/313 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302, 311, 312 or 313.

RCRA: Crystalline silica (quartz) is not classified as a hazardous waste under the Resource Conservation and Recovery Act, or its regulations, 40 CFR §261 et seq.

CERCLA: Crystalline silica (quartz) is not classified as a hazardous substance under regulations of the Comprehensive Environmental Response Compensation and Liability Act (CERCLA), 40 CFR §302.

Emergency Planning and Community Right to Know Act (SARA Title III): Crystalline silica (quartz) is not an extremely hazardous substance under Section 302 and is not a toxic chemical subject to the requirements of Section 313.

FDA: Silica is included in the list of substances that may be included in coatings used in food contact surfaces, 21 CFR §175.300(b)(3)(xxvi).

NTP: Respirable crystalline silica, primarily quartz dusts occurring in industrial and occupational settings, is classified as Known to be a Human Carcinogen.

OSHA Carcinogen: Crystalline silica (quartz) is not listed.

State Right to Know Laws

California Prop. 65 Components

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

California Inhalation Reference Exposure Level (REL): California established a chronic REL of 3 µg for silica (crystalline, respirable). A chronic REL is an airborne level of a substance at or below which no adverse health effects are anticipated in individuals indefinitely exposed to the substance at that level.

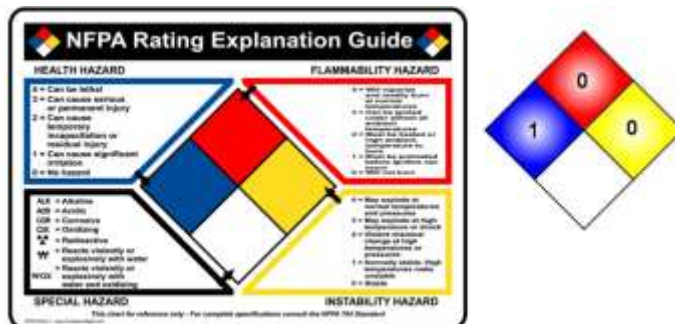
Massachusetts Toxic Use Reduction Act: Silica, crystalline (respirable size, <10 microns) is "toxic" for purposes of the Massachusetts Toxic Use Reduction Act.

Global Inventories

DSL: All components of this product are on the Canadian DSL list.

TSCA No.: Crystalline silica (quartz) appears on the EPA TSCA inventory under the CAS No. 14808-60-7. All constituents are listed in the TSCA inventory.

NFPA Ratings



SECTION 16 – OTHER INFORMATION

Metalcrete Industries believes the information contained within this Safety Data Sheet to be accurate and reliable as of the date of preparation, or is obtained from sources believed to be accurate. Metalcrete Industries gives no warranty expressed or implied as to the accuracy of the information contained herein and assume no responsibility for damage to any person, property, or business arising from use of this material. Hazard information stated within this document is provided in good faith, is for the consideration of the user, and is subject to the user's own investigation of compliance with acceptable regulations. It is the sole responsibility of the purchaser or user of this product to ensure that it is properly and safely used. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products.

End of SDS

Safety Data Sheet

SECTION I - PRODUCT IDENTIFICATION

Trade Name: **Kwiko Fiber Filler**
Product Code: F01, F02, F038, F04, F075, F08, F1
Manufacturer: Metalcrete Industries
4133 Payne Avenue
Cleveland, Ohio 44103
Recommended Use: Fiber filler for hazardous location sealing fittings.
Telephone: 1-440-526-5600
Emergency Phone: 1-800-633-8253

SECTION 2 – HAZARDS IDENTIFICATION

There is no hazard statement associated with this material. Kwiko Fiber Filler is not classified as dangerous according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP). The overall conclusion in accordance with the CLP regulation, REACH registration and the Globally Harmonized System (GHS) is that there are no hazardous classifications associated with Kwiko Fiber Filler in respect to physical, health and environmental considerations

SECTION 3 – PRODUCT COMPOSITION

Chemical Name	EC ID Number	REACH Number	Percentage
Stone Wool	926-099-9	01-211-947-2313-44	95.0 – 100.0
Synthetic Polymer Binder			0.0 – 5.0
Mineral Oil			0.0 – 0.5
Silicon Oil / Emulsion			0.0 – 0.5

SECTION 4 – FIRST AID MEASURES

After inhalation: Remove from exposure. Rinse the throat and clear dust from airways.

After skin contact: If itching occurs, remove contaminated clothing and wash skin gently with cold water and soap.

After eye contact: Rinse abundantly with water for at least 15 minutes.

After swallowing: Do not induce vomiting. If conscious, have the victim drink plenty of water and call a physician immediately. Never give anything by mouth to an unconscious person.

Indication of immediate medical attention and special treatment needed:

Immediately seek medical advice or attention if symptoms are significant or persist.

SECTION 5 – FIRE-FIGHTING MEASURES

Flammability of the Product: Non-flammable and non-combustible

Suitable extinguishing agents: Water, foam, carbon dioxide (CO₂), and dry powder.

Special hazards arising from the substance or mixture: None

Products of Combustion: None

Explosion Hazards in Presence of Various Substances: Non-explosive in presence of shocks

SECTION 6 – ACCIDENTAL RELEASE MEASURES

In case of presence of high concentrations of dust, use the same personal protective equipment as mentioned in Section 8. For cleaning up, use a vacuum cleaner or dampen with water spray prior to sweeping up.

SECTION 7 – HANDLING AND STORAGE

Precautions for safe handling: No specific measures. Preferably use a knife for cutting. If a power tool is used, provide effective dust extraction. Ensure adequate ventilation of workplace. See section 8. Avoid unnecessary handling of unwrapped product. See Section 8. Products should be kept dry, if possible in original packaging.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTION EQUIPMENT

Eye Protection:	Wear goggles if working above shoulders or where there is heavy dust development. Eye protection to EN 166 is advised.
Respiratory Protection:	When working in unventilated areas or during operations which can generate emission of (various) dusts, wearing a disposable face mask in accordance with EN 149 FFP1 is recommended.
Skin Protection:	Use gloves conforming with EN 388 to avoid itching. Cover exposed skin.
Engineering Controls:	At high temperatures not usually found in building construction (>175°C), the product binder will slowly decompose and trace gases will be released. When high temperature appliances are first put into service, gases should be vented to control exposure to fumes or appropriate respirators used.

EXPOSURE LIMITS

Workplace exposure limit (WEL) 5 mg / m³ gravimetric measure (total inhalable dust) and 2 fibers / ml airborne fiber limit, 8-hour time weighted averages. HSE guidance assumes that the gravimetric measure would be reached before the fiber measure. (Ref. HSE EH40).

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form:	Solid.
Color:	Grey – Green.
Odor:	Odorless.
Odor Threshold:	Not relevant. No odor.
pH:	Not relevant.
Melting Point:	>1000°C
Initial Boiling Point / Range:	Not relevant. Solid.
Flash Point:	Not relevant. Non-combustible. (ref. UK and Ireland Building Regulations)
Evaporation Rate:	Not relevant. Solid.
Flammability:	Not relevant. Non-combustible. (ref. UK and Ireland Building Regulations)
Flammability/Explosive Limits:	Not relevant. Non-combustible. (ref. UK and Ireland Building Regulations)
Vapor Pressure:	Not relevant. Solid.
Vapor Density:	Not relevant. Solid.
Relative Density:	Typically between 20 and 300 kg / m ³
Solubility:	Generally chemically inert and insoluble in water
Partition Coefficient:	Not relevant. Insoluble in water.
Auto-Ignition Temperature:	Not relevant. Non-combustible. (ref. UK and Ireland Building Regulations)
Decomposition Temperature:	When heated to approximately 175°C for the first time, release of binder decomposition products occur.
Viscosity:	Not relevant. Solid.
Explosive Properties:	Not relevant. Non-combustible. (ref. UK and Ireland Building Regulations)
Oxidizing Properties:	Not relevant. Non-oxidizing.

SECTION 10 – STABILITY AND REACTIVITY

Reactivity: Not reactive.

Chemical stability: Stable.

Possibility of hazardous reaction: Not reactive.

Thermal decomposition / conditions to be avoided: None.

Incompatible materials: None.

Hazardous Decomposition or By-products: When heated to approximately 175°C for the first time, release of binder decomposition products occurs.

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute toxicity: No acute toxicity

Irritation: In the case of coarser fibers there can be mechanical effects on skin, upper respiratory system (mucous membranes) and eyes that can cause temporary, self-fading effects (e.g. itching). No chemical effects ensue.

Corrosivity: No corrosivity

Sensitization: No sensitization

Repeated dose toxicity: No repeated dose toxicity

Carcinogenicity: None. Owing to its high bio-solubility, the fiber used in this insulation material is assessed as free from suspicion of possible carcinogenic effects in accordance with Regulation (EC) No 1272/2008 (ref. Nota Q). In October 2001, the International Agency for Research on Cancer (IARC) classified rock (stone) wool insulation as Group 3 (not classifiable as to its carcinogenicity in humans) i.e. not suspected of causing cancer in humans.

Mutagenicity: No mutagenicity

Toxicity for reproduction: No toxicity for reproduction

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity: None. This product is not expected to cause harm to animals or plants during normal conditions of use. Stone wool is principally made from non-scarce rock material and recycled stone wool.

Persistence and degradability: None

Bioaccumulative potential: None

Mobility in soil: None

Other Adverse Effects: Relying on entrapped air for its thermal properties, the products do not, and never have used blowing agents with Ozone Depleting Potential or Global Warming Potential. No flame retardants are added.

SECTION 13 – DISPOSAL CONSIDERATION

Waste Disposal Method: Kwiko Fiber Filler material is recyclable. Kwiko Fiber Filler insulation is classified as non-hazardous waste. Kwiko Fiber Filler insulation waste is covered by the non-hazardous entry “17 06 04 insulation materials other than those mentioned in 17 06 01 and 17 06 03” in the European Waste Catalogue, established by EC Decision 2000/532/EC (hazardous waste). Under landfill regulations Kwiko Fiber Filler waste is categorized as “waste accepted at landfills for non-hazardous waste” in accordance with EC Decision 2003/33/EC (landfill acceptance criteria).

SECTION 14 – TRANSPORT INFORMATION

	DOT (U.S.)	TDG (Canada)
UN Number	Not Regulated	Not Regulated
UN Proper Shipping Name	Not Regulated	Not Regulated
Transport Hazard Class(es)	Not Regulated	Not Regulated
Packing Group (if applicable)	Not Regulated	Not Regulated

Environmental Hazards: Not applicable.

SECTION 15 – REGULATORY INFORMATION

The overall conclusion in accordance with the CLP, GHS and REACH regulations is that there are no hazardous classifications associated with Kwiko Fiber Filler in respect to physical, health and environmental aspects.

SECTION 16 – OTHER INFORMATION

Metalcrete Industries believes the information contained within this Safety Data Sheet to be accurate and reliable as of the date of preparation, or is obtained from sources believed to be accurate. Metalcrete Industries gives no warranty expressed or implied as to the accuracy of the information contained herein and assume no responsibility for damage to any person, property, or business arising from use of this material. Hazard information stated within this document is provided in good faith, is for the consideration of the user, and is subject to the user's own investigation of compliance with acceptable regulations. It is the sole responsibility of the purchaser or user of this product to ensure that it is properly and safely used. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products.

End of SDS