





**GE32200 12OZ-CAN(0.750LBS-0.340KG)
Polyurethane Foam Sealant**

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufactured By: GESA Euless Plant
10950 S. Pipeline Rd
Euless TX 76040

Revised: 06/15/2006

Preparer: PRODUCT STEWARDSHIP COMPLIANCE AND STANDARDS
CHEMTREC 1-800-424-9300

Chemical Family/Use: Adhesive
Formula: Mixture

HMIS

Flammability: 4 Reactivity: 1 Health: 2 Prot. Equipm.:

NFPA

Flammability: 4 Reactivity: 1 Health: 2 Special Haz.:

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>PRODUCT COMPOSITION</u>	<u>CAS REG NO.</u>	<u>WGT. %</u>
A. HAZARDOUS		
Chlorodifluoromethane		30 - 60 %
Isocyanic acid, polymethylenepolyphenylene ester	9016-87-9	30 - 60 %
Diphenylmethane Diisocyanate	101-68-8	30 - 60 %
B. NON-HAZARDOUS		
Proprietary Polyurethane Blend		60 - 90 %

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING! Irritating to eyes, respiratory system and skin. Harmful by inhalation, in contact with skin and if swallowed. Contents under pressure. May cause allergic skin reaction. May cause central nervous system depression. Viscous foam; solid upon curing.

Form: solid Color: off-white Odor: Fluorocarbons

POTENTIAL HEALTH EFFECTS

INGESTION

DO NOT INGEST! Ingestion of uncured product can be harmful or fatal. Can cause severe irritation and corrosion of mouth, throat, and gastrointestinal tract. Symptoms include nausea, stomach pain,

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diarrhea, abdominal cramps and spasms, bloody watery stools, and vomiting of hard whitish fragments of polymerized isocyanate. Product may cure in gastrointestinal tract and obstruct the passage of food and air. Other effects include slowed or irregular heartbeat, metabolic acidosis, blood disturbances, central nervous system effects, coma, and death.

SKIN

This product contains ingredients which may produce an allergic skin reaction. It should be treated as a skin sensitizer. Will bond skin surfaces together. Contact may cause severe irritation with redness, pain, and rash.

INHALATION

Harmful if inhaled. Inhalation of vapors or gas can cause respiratory tract irritation, breathlessness, wheezing, coughing, decreased pulmonary function, headache, nausea, vomiting, chest pain, and irregular heartbeat. Central nervous system depression can occur with disorientation, drunkenness, suffocation, convulsions, coma, and death. Respiratory and cardiac sensitizer. Overexposure may cause chemical pneumonitis, inflammation of the lungs, and pulmonary edema which may be fatal. Symptoms may be delayed for several hours.

EYES

Will bond eyelids together. Contact with product, vapors, or propellant gas can be irritating and damaging to the eye.

MEDICAL CONDITIONS AGGRAVATED

Respiratory disorder Allergy Applies in uncured state. Central nervous system disorders. Cardiovascular disorders. Skin disorders.

SUBCHRONIC (TARGET ORGAN)

Respiratory system; Skin; Central nervous system; Immune system; Eyes

CHRONIC EFFECTS / CARCINOGENICITY

This product or one of its ingredients present at 0.1% or more is NOT listed as a carcinogen or suspected carcinogen by NTP, IARC, or OSHA.

ROUTES OF EXPOSURE

Inhalation; dermal

OTHER

None known.

4. FIRST AID MEASURES**INGESTION**

Call a physician or Poison Control Centre immediately.

SKIN

Product adheres to skin. Remove contaminated clothing. Wash immediately with abrasive soap. If product cannot be removed, or allergic reaction with reddening and blistering develops, get immediate medical attention.

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INHALATION

Remove to fresh air. If not breathing, begin artificial respiration using a barrier device. Because of chemical properties, do not use mouth-to-mouth contact. Obtain medical attention.

EYES

Immediate medical attention is required Flush eyes with large amounts of water for at least 15 minutes.

NOTE TO PHYSICIAN

5. FIRE-FIGHTING MEASURES

FLASH POINT: 426.66 °C; 800.60 °F
METHOD:
IGNITION TEMPERATURE: not applicable
FLAMMABLE LIMITS IN AIR - LOWER (%): not applicable
FLAMMABLE LIMITS IN AIR - UPPER (%): not applicable

SENSITIVITY TO MECHANICAL IMPACT:

SENSITIVITY TO STATIC DISCHARGE

Sensitivity to static discharge is expected.

EXTINGUISHING MEDIA

Water, Foam, Carbon dioxide (CO2), Dry chemical, Halogenated agents

SPECIAL FIRE FIGHTING PROCEDURES

Extremely flammable., Polymerization may take place during a fire due to elevated temperature where closed containers could violently rupture., Toxic hydrogen cyanide can be liberated under burning conditions, Containers can build up pressure if exposed to heat (fire)., Treat as a pressurized container., Firefighters must wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing., Cool closed containers exposed to fire with water spray.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

Wear suitable protective equipment.

7. HANDLING AND STORAGE

STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Avoid contact with skin and eyes. Use only in well-ventilated areas. Avoid inhalation of vapour or mist.

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Curing releases vapors which may be harmful. Remove contact lenses before using sealant. Do not handle lenses until all sealant has been cleaned from the fingertips, nails and cuticles. Residual sealant may remain on fingers for several days and transfer to lenses and cause severe eye irritation. Good hygienic practices should be observed. Work clothes should be washed separately at the end of each work day. Disposable clothing should be discarded with material. Store between 40 F and 120 F. Do not store where temperatures may exceed 120 F. If temperature is less than 40 F, contents may separate. Shake can to mix. Keep away from children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**ENGINEERING CONTROLS**

Eyewash stations;

RESPIRATORY PROTECTION

If exposure limits are exceeded or respiratory irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Supplied air respirators may be required for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA regulations (see 29 CFR 1910.134).

PROTECTIVE GLOVES

Impermeable or chemical resistant gloves.

EYE AND FACE PROTECTION

Safety glasses with side-shields

OTHER PROTECTIVE EQUIPMENT

Wear suitable protective clothing and gloves.

Exposure Guidelines

Component	CAS RN	Source	Value
Chlorodifluoromethane		ACGIH, TWA	1,000 ppm
Chlorodifluoromethane		OSHA Z1A, TWA	1,000 ppm; 3,500 mg/m3

Absence of values indicates none found

PEL - OSHA Permissible Exposure Limit; TLV - ACGIH Threshold Limit Value; TWA - Time Weighted Average

OSHA revoked the Final Rule Limits of January 19, 1989 in response to the 11th Circuit Court of Appeals decision (AFL-CIO v. OSHA) effective June 30, 1993. See 29 CFR 1910.1000 (58 FR 35338).

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT - C & F: 93.33 °C; 199.40 °F
VAPOR PRESSURE (20 C) (MM HG):
VAPOR DENSITY (AIR=1):

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FREEZING POINT:	not applicable
MELTING POINT:	not applicable
PHYSICAL STATE:	solid
ODOR:	Fluorocarbons
COLOR:	off-white
EVAPORATION RATE (BUTYL ACETATE=1):	
SPECIFIC GRAVITY (WATER=1):	ca. 1.20
DENSITY (KG/M3):	ca. 1,200 KG/M3
ACID / ALKALINITY (MEQ/G):	not applicable
pH:	not applicable
VOLATILE ORGANIC CONTENT (VOL):	
SOLUBILITY IN WATER (20 C):	insoluble
SOLUBILITY IN ORGANIC SOLVENT (STATE SOLVENT):	no data available
VOC EXCL. H2O & EXEMPTS (G/L):	no data available

10. STABILITY AND REACTIVITY

STABILITY

Stable

HAZARDOUS POLYMERIZATION

Will not occur

HAZARDOUS THERMAL DECOMPOSITION / COMBUSTION PRODUCTS

Carbon dioxide (CO₂); Carbon monoxide; Hydrogen cyanide (hydrocyanic acid); Oxides of nitrogen.

INCOMPATIBILITY (MATERIALS TO AVOID)

Avoid amines. Bases Alcohols Finely powdered metals.

CONDITIONS TO AVOID

freezing Keep away from heat and sources of ignition.

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL

Remarks: Unknown

ACUTE DERMAL

Remarks: Unknown

ACUTE INHALATION

Remarks: Unknown

OTHER

None.

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SENSITIZATION

SKIN IRRITATION

EYE IRRITATION

MUTAGENICITY

Unknown

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGY

no data available

CHEMICAL FATE

DISTRIBUTION

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD

Disposal should be made in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

IMDG SHIPPING NAME: LTD QTY - AEROSOLS

CLASS: 2

IMDG-LABELS: 2

UN NUMBER: UN1950

PACKING GROUP:

EMS No: 2-13;

15. REGULATORY INFORMATION

Inventories

Canada DSL Inventory y (positive listing)

TSCA list y (positive listing)

Canada NDSL Inventory n (Negative listing)

Japan Inventory of Existing & n (Negative listing)

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New Chemical Substances
(ENCS)

Korea Existing Chemicals
Inventory (KECI) n (Negative listing)

China Inventory of Existing
Chemical Substances n (Negative listing)

Australia Inventory of Chemical
Substances (AICS) n (Negative listing)

Philippines Inventory of
Chemicals and Chemical
Substances (PICCS) n (Negative listing)

For inventories that are marked as quantity restricted or special cases, please contact GE.

US Regulatory Information

CERCLA

PRODUCT COMPOSITION

Chemical

CERCLA Reportable Quantity

CLEAN AIR ACT

CLEAN WATER ACT

SARA SECTION 302

SARA (311,312) HAZARD CLASS

Acute Health Hazard

SARA (313) CHEMICALS

9016-87-9, Isocyanic acid, polymethylenepolyphenylene ester101-68-8, Diphenylmethane
Diisocyanate

Canadian Regulatory Information

WHMIS HAZARD CLASS

A COMPRESSED GAS, D2B TOXIC MATERIALS

Other

SCHDLE B/HTSUS: 3909.50 polyurethanes

ECCN: EAR99

CALIFORNIA PROPOSITION 65

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductiv e defects.



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16. OTHER INFORMATION

OTHER

C = ceiling limit NEGL = negligible EST = estimated NF = none found NA = not applicable
UNKN = unknown NE = none established REC = recommended ND = none determined
V = recommended by vendor SKN = skin TS = trade secret R = recommended
MST = mist NT = not tested STEL = short term exposure limit ppm = parts per million
ppb = parts per billion By-product= reaction by-product, TSCA inventory status not required under 40 CFR part 720.30(h-2)., These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

**Door and Window Space Invader Foam
W&D POLYURETHANE FOAM****1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Manufactured By: GES Waterford Plant
260 Hudson River Rd
Waterford NY 12188

Revised: 06/15/2006

Preparer: PRODUCT STEWARDSHIP COMPLIANCE AND STANDARDS
CHEMTREC 1-800-424-9300

Chemical Family/Use: Adhesive
Formula: Mixture

HMIS

Flammability: 4 Reactivity: 1 Health: 2 Prot. Equipm.:

NFPA

Flammability: 4 Reactivity: 1 Health: 2 Special Haz.:

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>PRODUCT COMPOSITION</u>	<u>CAS REG NO.</u>	<u>WGT. %</u>
<u>A. HAZARDOUS</u>		
Diphenylmethane Diisocyanate	101-68-8	10 - 30 %
Tetrafluoroethane	811-97-2	30 - 60 %
Isocyanic acid, polymethylenepolyphenylene ester	9016-87-9	10 - 30 %
<u>B. NON-HAZARDOUS</u>		
Proprietary Polyurethane Blend		60 - 90 %

3. HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW**

WARNING! Irritating to eyes, respiratory system and skin. Harmful by inhalation, in contact with skin and if swallowed. Contents under pressure. May cause allergic skin reaction. May cause central nervous system depression. Viscous foam; solid upon curing.

Form: solid

Color: blue green

Odor: Fluorocarbons

POTENTIAL HEALTH EFFECTS**INGESTION**

DO NOT INGEST! Ingestion of uncured product can be harmful or fatal. Can cause severe irritation and corrosion of mouth, throat, and gastrointestinal tract. Symptoms include nausea, stomach pain,

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W&D POLYURETHANE FOAM**

diarrhea, abdominal cramps and spasms, bloody watery stools, and vomiting of hard whitish fragments of polymerized isocyanate. Product may cure in gastrointestinal tract and obstruct the passage of food and air. Other effects include slowed or irregular heartbeat, metabolic acidosis, blood disturbances, central nervous system effects, coma, and death.

SKIN

This product contains ingredients which may produce an allergic skin reaction. It should be treated as a skin sensitizer. Will bond skin surfaces together. Contact may cause severe irritation with redness, pain, and rash.

INHALATION

Harmful if inhaled. Inhalation of vapors or gas can cause respiratory tract irritation, breathlessness, wheezing, coughing, decreased pulmonary function, headache, nausea, vomiting, chest pain, and irregular heartbeat. Central nervous system depression can occur with disorientation, drunkenness, suffocation, convulsions, coma, and death. Respiratory and cardiac sensitizer. Overexposure may cause chemical pneumonitis, inflammation of the lungs, and pulmonary edema which may be fatal. Symptoms may be delayed for several hours.

EYES

Will bond eyelids together. Contact with product, vapors, or propellant gas can be irritating and damaging to the eye.

MEDICAL CONDITIONS AGGRAVATED

Respiratory disorder Allergy Applies in uncured state. Central nervous system disorders. Cardiovascular disorders. Skin disorders.

SUBCHRONIC (TARGET ORGAN)

Respiratory system; Skin; Central nervous system; Immune system; Eyes

CHRONIC EFFECTS / CARCINOGENICITY

This product or one of its ingredients present at 0.1% or more is NOT listed as a carcinogen or suspected carcinogen by NTP, IARC, or OSHA.

ROUTES OF EXPOSURE

Inhalation; dermal

OTHER

None known.

4. FIRST AID MEASURES**INGESTION**

Call a physician or Poison Control Centre immediately.

SKIN

Product adheres to skin. Remove contaminated clothing. Wash immediately with abrasive soap. If product cannot be removed, or allergic reaction with reddening and blistering develops, get immediate medical attention.

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W&D POLYURETHANE FOAM**

INHALATION

Obtain medical attention. If not breathing, begin artificial respiration using a barrier device. Because of chemical properties, do not use mouth-to-mouth contact. Remove to fresh air.

EYES

Immediate medical attention is required Flush eyes with large amounts of water for at least 15 minutes.

NOTE TO PHYSICIAN

5. FIRE-FIGHTING MEASURES

FLASH POINT: 426.66 °C; 800.60 °F
METHOD: No information available.
IGNITION TEMPERATURE: not applicable
FLAMMABLE LIMITS IN AIR - LOWER (%): not applicable
FLAMMABLE LIMITS IN AIR - UPPER (%): not applicable

SENSITIVITY TO MECHANICAL IMPACT:

SENSITIVITY TO STATIC DISCHARGE
Sensitivity to static discharge is expected.

EXTINGUISHING MEDIA
Water, Foam, Carbon dioxide (CO₂), Dry chemical, Halogenated agents

SPECIAL FIRE FIGHTING PROCEDURES
Extremely flammable., Polymerization may take place during a fire due to elevated temperature where closed containers could violently rupture., Toxic hydrogen cyanide can be liberated under burning conditions, Containers can build up pressure if exposed to heat (fire)., Treat as a pressurized container., Firefighters must wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing., Cool closed containers exposed to fire with water spray.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED
Wear suitable protective equipment.

7. HANDLING AND STORAGE

STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE
Use only in well-ventilated areas. Avoid contact with skin and eyes. Keep away from children. Curing

**Door and Window Space Invader Foam
W&D POLYURETHANE FOAM**

releases vapors which may be harmful. Remove contact lenses before using sealant. Do not handle lenses until all sealant has been cleaned from the fingertips, nails and cuticles. Residual sealant may remain on fingers for several days and transfer to lenses and cause severe eye irritation. Good hygienic practices should be observed. Work clothes should be washed separately at the end of each work day. Disposable clothing should be discarded with material. Store between 40 F and 120 F. Do not store where temperatures may exceed 120 F. If temperature is less than 40 F, contents may separate. Shake can to mix. Avoid inhalation of vapour or mist.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**ENGINEERING CONTROLS**

Eyewash stations;

RESPIRATORY PROTECTION

If exposure limits are exceeded or respiratory irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Supplied air respirators may be required for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA regulations (see 29 CFR 1910.134).

PROTECTIVE GLOVES

Impermeable or chemical resistant gloves.

EYE AND FACE PROTECTION

Safety glasses with side-shields

OTHER PROTECTIVE EQUIPMENT

Wear suitable protective clothing and gloves.

Exposure Guidelines

Component	CAS RN	Source	Value
Diphenylmethane Diisocyanate	101-68-8	ACGIH, TWA	0.005 ppm
Diphenylmethane Diisocyanate	101-68-8	OSHA Z1A, Ceiling	0.02 ppm; 0.2 mg/m ³

Absence of values indicates none found

PEL - OSHA Permissible Exposure Limit; TLV - ACGIH Threshold Limit Value; TWA - Time Weighted Average

OSHA revoked the Final Rule Limits of January 19, 1989 in response to the 11th Circuit Court of Appeals decision (AFL-CIO v. OSHA) effective June 30, 1993. See 29 CFR 1910.1000 (58 FR 35338).

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT - C & F: 93.33 °C; 199.40 °F
VAPOR PRESSURE (20 C) (MM HG): 44.25

**Door and Window Space Invader Foam
W&D POLYURETHANE FOAM**

VAPOR DENSITY (AIR=1):	
FREEZING POINT:	not applicable
MELTING POINT:	not applicable
PHYSICAL STATE:	solid
ODOR:	Fluorocarbons
COLOR:	blue green
EVAPORATION RATE (BUTYL ACETATE=1):	
SPECIFIC GRAVITY (WATER=1):	1.20
DENSITY (KG/M3):	not applicable
ACID / ALKALINITY (MEQ/G):	not applicable
pH:	not applicable
VOLATILE ORGANIC CONTENT (VOL):	not applicable
SOLUBILITY IN WATER (20 C):	insoluble
SOLUBILITY IN ORGANIC SOLVENT (STATE SOLVENT):	NF
VOC EXCL. H2O & EXEMPTS (G/L):	no data available

10. STABILITY AND REACTIVITY

STABILITY

Stable

HAZARDOUS POLYMERIZATION

Will not occur

HAZARDOUS THERMAL DECOMPOSITION / COMBUSTION PRODUCTS

Carbon dioxide (CO₂); Carbon monoxide; Hydrogen cyanide (hydrocyanic acid); Oxides of nitrogen.

INCOMPATIBILITY (MATERIALS TO AVOID)

Bases Alcohols Finely powdered metals. Avoid amines.

CONDITIONS TO AVOID

freezing Keep away from heat and sources of ignition. Avoid any source of ignition due to flammability.

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL

Remarks: Unknown

ACUTE DERMAL

Remarks: Unknown

ACUTE INHALATION

Remarks: Unknown

OTHER

None.

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SENSITIZATION
no data available

SKIN IRRITATION
no data available

EYE IRRITATION
no data available

MUTAGENICITY
Unknown

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGY
no data available

CHEMICAL FATE

DISTRIBUTION
no data available

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD
Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

IMDG SHIPPING NAME:	LTD QTY - AEROSOLS
CLASS:	2
IMDG-LABELS:	2
UN NUMBER:	UN1950
PACKING GROUP:	
EMS No:	2-13;

15. REGULATORY INFORMATION

Inventories

**Door and Window Space Invader Foam
W&D POLYURETHANE FOAM**

TSCA list	y (positive listing)
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	n (Negative listing)
Canada NDSL Inventory	n (Negative listing)
EU list of existing chemical substances	n (Negative listing)
Australia Inventory of Chemical Substances (AICS)	n (Negative listing)
Canada DSL Inventory	y (positive listing)
Korea Existing Chemicals Inventory (KECI)	n (Negative listing)

For inventories that are marked as quantity restricted or special cases, please contact GE.

US Regulatory Information

CERCLA

PRODUCT COMPOSITION

Chemical

CERCLA Reportable Quantity

CLEAN AIR ACT

CLEAN WATER ACT

SARA SECTION 302

SARA (311,312) HAZARD CLASS

Acute Health Hazard

SARA (313) CHEMICALS

9016-87-9, Isocyanic acid, polymethylenepolyphenylene ester101-68-8, Diphenylmethane Diisocyanate

Canadian Regulatory Information

WHMIS HAZARD CLASS

A COMPRESSED GAS, D2B TOXIC MATERIALS

Other

SCHDLE B/HTSUS:

ECCN:

CALIFORNIA PROPOSITION 65

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductiv e defects.

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16. OTHER INFORMATION

OTHER

C = ceiling limit applicable NEGL = negligible EST = estimated NF = none found NA = not applicable
UNKN = unknown NE = none established REC = recommended ND = none determined
V = recommended by vendor SKN = skin TS = trade secret R = recommended
MST = mist NT = not tested STEL = short term exposure limit ppm = parts per million
ppb = parts per billion By-product= reaction by-product, TSCA inventory status not required under 40 CFR part 720.30(h-2)., These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.