

Safety Data Sheet According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015). Participa Date: 08 (11/2022 Date of Issue: 10/31/1988 Supersedes Date: 11/13/2019 Version: 1.0

	Revision Date: 08/11/2022	Date of Issue: 10/31/1988	Supersedes Date: 11/13/2019	Version: 1.0
SECTION 1: IDENTIFICATION				
1.1. Product Identifier				
Product Form: Mixture				
Product Name: SAFETY-KLEEN USED AN	ITIFREEZE			
Product Code: Prefix 09				
Synonyms: 1,2-Ethanediol; 1,2-Ethylen	e glycol; 2-Hydroxyetł	nanol; Ethylene alcohol		
SDS No.: 82912				
1.2. Intended Use of the Product				
Used automotive coolant.				
1.3. Name, Address, and Teleph	one of the Respons	ible Party		
MANUFACTURER/SUPPLIER	•	IMPORTER/DISTRIB	UTOR	
Safety-Kleen Systems, Inc.		Safety-Kleen Canada	a, Inc.	
42 Longwater Drive		25 Regan Road		
Norwell, MA 02061-9149		Brampton, Ontario,	L7A 1B2	
U.S.A.		Canada		
1-800-669-5740		1-800-669-5740		
www.safety-kleen.com		www.safety-kleen.c	<u>om</u>	
1.4. Emergency Telephone Numb	er			
Emergency Number : 1-800-468-17				
SECTION 2: HAZARDS IDENTIFICAT	ION			
2.1. Classification of the Substan				
GHS-US/CA Classification				
Acute toxicity (oral) Category 4		H302		
Specific target organ toxicity (repeated	exposure) Category 2			
2.2. Label Elements				
GHS-US/CA Labeling				
Hazard Pictograms (GHS-US/CA)	. ^	^		
	GHS07	GHS08		
Signal Word (GHS-US/CA)	: Warning			
Hazard Statements (GHS-US/CA)	: H302 - Harmful i	f swallowed.		
	H373 - May caus	se damage to organs (kid	neys) through prolonged	or repeated exposure
	(oral).			
Precautionary Statements (GHS-US/CA		eathe vapors, mist, or sp	-	
			exposed areas thorough	y after handling.
		וt, drink or smoke when ו		
	P301+P312 - IF S	WALLOWED: Call a POIS	ON CENTER or doctor if y	ou feel unwell.
		cal advice/attention if yo	u feel unwell.	
	P330 - Rinse mo			
			accordance with local, reg	gional, national,
	territorial, provi	ncial, and international re	egulations.	
2.3 Other Hazards				

2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity (GHS-US/CA)

No additional information available

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Name	Synonyms	Product Identifier	% *	GHS Ingredient Classification
Ethylene glycol	1,2-Dihydroxyethane / Ethane-1,2-diol / 1,2- Ethanediol / Ethanediol / GLYCOL	(CAS-No.) 107-21-1	2 – 68	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
1,2-Propanediol	1,2-Propylene glycol / 1,2- Dihydroxypropane / Propane- 1,2-diol / Propylene glycol / PROPYLENE GLYCOL	(CAS-No.) 57-55-6	4 – 44	Not classified
Diethylene glycol	Bis(2-hydroxyethyl) ether / DEG / Diglycol / Dihydroxydiethyl ether / 2,2'- Dihydroxyethyl ether	(CAS-No.) 111-46-6	1-2	Acute Tox. 4 (Oral), H302 STOT RE 2, H373

Full text of H-statements: see section 16

*Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%).

SECTION 4: FIRST AID MEASURES

4.1. Description of First-aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 5 minutes. Obtain medical attention if irritation develops or persists.

Eye Contact: Rinse cautiously with water for at least 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

General: Harmful if swallowed. May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).

Inhalation: Prolonged exposure may cause irritation.

Skin Contact: Prolonged exposure may cause skin irritation.

Eye Contact: May cause slight irritation to eyes.

Ingestion: This material is harmful orally and can cause adverse health effects or death in significant amounts. Acute exposure of humans to ethylene glycol by ingesting large quantities causes three stages of health effects. CNS depression, including such symptoms as vomiting, drowsiness, coma, respiratory failure, convulsions, metabolic changes, and gastrointestinal upset are followed by cardiopulmonary effects and later renal damage.

Chronic Symptoms: May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Water spray, fog, carbon dioxide (CO₂), alcohol-resistant foam, or dry chemical. Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

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Hazardous Combustion Products: Carbon oxides (CO, CO₂). Unidentified organic compounds.

5.4. Reference to Other Sections

Refer to Section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not get in eyes, on skin, or on clothing. Avoid breathing (vapor, mist, spray).

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: Spilled material may present a slipping hazard.

Precautions for Safe Handling: Do not get in eyes, on skin, or on clothing. Avoid breathing vapors, mist, spray. Handle empty containers with care because they may still present a hazard. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible Materials: Strong acids, strong bases, strong oxidizers. Reactive metals.

7.3. Specific End Use(s)

Used automotive coolant.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), or Canadian provincial governments.

Ethylene glycol (107-21-1)		
USA ACGIH	ACGIH OEL TWA [ppm]	25 ppm (vapor fraction)
USA ACGIH	ACGIH OEL STEL	10 mg/m ³ (inhalable particulate matter, aerosol only)
USA ACGIH	ACGIH OEL STEL [ppm]	50 ppm (vapor fraction)
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
Alberta	OEL C	100 mg/m ³
British Columbia	OEL C	100 mg/m ³ (aerosol)
British Columbia	OEL Ceiling [ppm]	50 ppm (vapour)
British Columbia	OEL STEL	20 mg/m ³ (particulate)
British Columbia	OEL TWA	10 mg/m ³ (particulate)
Manitoba	OEL STEL	10 mg/m ³ (inhalable particulate matter, aerosol only)

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USA AIHA	WEEL TWA	10 mg/m ³
Diethylene glycol (111-46-6)	-	
Ontario	OEL TWA [ppm]	50 ppm (aerosol and vapor)
		155 mg/m ³ (aerosol and vapor)
		present-aerosol only)
Untant		environment where 1,2-Propylene glycol aerosol is
OSA AIHA Ontario	OEL TWA	10 mg/m ⁻ 10 mg/m ³ (for assessing the visibility in a work
USA AIHA	WEEL TWA	10 mg/m ³
1,2-Propanediol (57-55-6)		1 200 bbu (adbou)
Yukon	OEL TWA [ppm]	100 ppm (vapour)
		250 mg/m ³ (vapour)
Yukon	OEL TWA	10 mg/m ³ (particulate)
		125 ppm (vapour)
Yukon	OEL STEL [ppm]	10 ppm (particulate)
		325 mg/m ³ (vapour)
Yukon	OEL STEL	20 mg/m ³ (particulate)
Saskatchewan	OEL C	100 mg/m ³ (aerosol)
Québec	Plafond (OEL Ceiling) [ppm]	50 ppm (mist and vapour)
Québec	Plafond (OEL Ceiling)	127 mg/m ³ (mist and vapour)
Prince Edward Island	OEL TWA [ppm]	25 ppm (vapor fraction)
Prince Edward Island	OEL STEL [ppm]	50 ppm (vapor fraction)
Prince Edward Island	OEL STEL	10 mg/m ³ (inhalable particulate matter, aerosol only)
Ontario	OEL TWA [ppm]	25 ppm (vapor fraction)
Ontario	OEL STEL [ppm]	50 ppm (vapor fraction)
Ontario	OEL STEL	10 mg/m ³ (inhalable particulate matter, aerosol only)
Northwest Territories	OELC	100 mg/m ³ (aerosol)
Nunavut	OELC	100 mg/m ³ (aerosol)
Nova Scotia	OEL TWA [ppm]	25 ppm (vapor fraction)
Nova Scotia	OEL STEL [ppm]	50 ppm (vapor fraction)
Nova Scotia	OEL STEL	10 mg/m ³ (inhalable particulate matter, aerosol only)
Newfoundland & Labrador	OEL TWA [ppm]	25 ppm (vapor fraction)
Newfoundland & Labrador	OEL STEL [ppm]	50 ppm (vapor fraction)
Newfoundland & Labrador	OEL STEL	10 mg/m ³ (inhalable particulate matter, aerosol only)
New Brunswick	OELC	100 mg/m ³ (aerosol)
Manitoba	OEL TWA [ppm]	25 ppm (vapor fraction)
Manitoba	OEL STEL [ppm]	50 ppm (vapor fraction)

8.2. Exposure Controls

Appropriate Engineering Controls: Ensure adequate ventilation, especially in confined areas. Suitable eye/body wash equipment should be available in the vicinity of any potential exposure. Ensure all national/local regulations are observed. Personal Protective Equipment: Gloves. Protective clothing. Safety glasses with side-shields.



Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear protective gloves.

Eye and Face Protection: Safety glasses with side-shields.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

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Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties				
Physical State	:	Liquid		
Appearance	:	Green		
Odor	:	Sweet		
Odor Threshold	:	No data available		
рН	:	6-10		
Evaporation Rate	:	No data available		
Melting Point	:	No data available		
Freezing Point	:	No data available		
Boiling Point	:	> 148.9 °C (300 °F)		
Flash Point	:	> 93.3 °C (200 °F)		
Auto-ignition Temperature	:	398 °C (748 °F) (Ethylene glycol)		
Decomposition Temperature	:	No data available		
Flammability (solid, gas)	:	Not applicable		
Lower Flammable Limit	:	3.2 % (Ethylene glycol)		
Upper Flammable Limit	:	15.3 % (Ethylene glycol)		
Vapor Pressure	:	< 0.1 mm Hg @ 20° C (68 °F)		
Relative Vapor Density at 20°C	:	> 1 (Air = 1)		
Relative Density	:	> 1 (Water = 1)		
Specific Gravity	:	No data available		
Solubility	:	Water: Complete		
Partition Coefficient: N-Octanol/Water	:	No data available		
	:	No data available		

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity:

Hazardous reactions will not occur under normal conditions.

10.2. Chemical Stability:

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of Hazardous Reactions:

Hazardous polymerization will not occur.

10.4. Conditions to Avoid:

Direct sunlight, extremely high or low temperatures, and incompatible materials.

10.5. Incompatible Materials:

Strong acids, strong bases, strong oxidizers. Reactive metals.

10.6. Hazardous Decomposition Products:

Thermal decomposition may produce: Carbon oxides (CO, CO₂). Unidentified organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects - Product

Acute Toxicity (Oral): Harmful if swallowed.

Acute Toxicity (Dermal): Not classified

Acute Toxicity (Inhalation): Not classified

LD50 and LC50 Data:

SAFETY-KLEEN USED ANTIFREEZE

ATE US/CA (oral)

Skin Corrosion/Irritation: Not classified

pH: 6 – 10

Eye Damage/Irritation: Not classified

pH: 6 – 10 Respiratory or Skin Sensitization: Not classified 714.29 mg/kg body weight

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Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified

Specific Target Organ Toxicity (Repeated Exposure): May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Prolonged exposure may cause irritation.

Symptoms/Injuries After Skin Contact: Prolonged exposure may cause skin irritation.

Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes.

Symptoms/Injuries After Ingestion: This material is harmful orally and can cause adverse health effects or death in significant amounts. Acute exposure of humans to ethylene glycol by ingesting large quantities causes three stages of health effects. CNS depression, including such symptoms as vomiting, drowsiness, coma, respiratory failure, convulsions, metabolic changes, and gastrointestinal upset are followed by cardiopulmonary effects and later renal damage.

Chronic Symptoms: May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).

11.2. Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Ethylene glycol (107-21-1)	
LD50 Oral Rat	4700 mg/kg
LD50 Dermal Rat	10600 mg/kg
LC50 Inhalation Rat	> 2.5 mg/l (Exposure time: 6 h)
1,2-Propanediol (57-55-6)	
LD50 Oral Rat	20 g/kg
LD50 Dermal Rabbit	20800 mg/kg
Diethylene glycol (111-46-6)	
LD50 Oral Rat	12565 mg/kg
LD50 Dermal Rabbit	11890 mg/kg
LC50 Inhalation Rat	> 4600 mg/m ³ (Exposure time: 4 h)

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General: Not classified.

Ethylene glycol (107-21-1)	
LC50 Fish 1	41000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 - Crustacea [1]	46300 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	14 – 18 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
1,2-Propanediol (57-55-6)	
LC50 Fish 1	51600 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 - Crustacea [1]	> 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 Fish 2	41 – 47 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
Diethylene glycol (111-46-6)	
LC50 Fish 1	75200 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 - Crustacea [1]	84000 mg/l (Exposure time: 48 h - Species: Daphnia magna)

12.2. Persistence and Degradability

SAFETY-KLEEN USED ANTIFREEZE	
Persistence and Degradability	Not established.
12.3. Bioaccumulative Potential	
SAFETY-KLEEN USED ANTIFREEZE	
Bioaccumulative Potential	Not established.
Ethylene glycol (107-21-1)	

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Partition coefficient n-octanol/water	-1.93
(Log Pow)	
1,2-Propanediol (57-55-6)	
BCF Fish 1	<1
Diethylene glycol (111-46-6)	
BCF Fish 1	100 - 180
Partition coefficient n-octanol/water	-1.98 (at 25 °C)
(Log Pow)	

12.4. Mobility in Soil

No additional information available

12.5. Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste Treatment Methods: Consult supplier for specific recommendations.

Sewage Disposal Recommendations: Do not dispose of waste into sewer.

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

Ecology - Waste Materials: Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

14.1. In Accordance with DOT

Not regulated for transport

14.2. In Accordance with IMDG

Not regulated for transport

14.3. In Accordance with IATA

Not regulated for transport

14.4. In Accordance with TDG

Not regulated for transport

SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations				
SAFETY-KLEEN USED ANTIFREEZE				
SARA Section 311/312 Hazard Classes		Health hazard - Specific target organ toxicity (single or repeated exposure)		
		Health hazard - Acute t	coxicity (any route of exposure)	
Ethylene glycol (107-21-1)				
Listed on the United States TSCA (Toxid	c Substances Control Act) inventory - Status: Activ	/e	
Subject to reporting requirements of L	United States SARA Section	on 313		
CERCLA RQ	5000 lb			
SARA Section 313 - Emission Reportin	porting 1%			
1,2-Propanediol (57-55-6)				
Listed on the United States TSCA (Toxi	c Substances Control Act) inventory - Status: Activ	ve	
Diethylene glycol (111-46-6)				
Listed on the United States TSCA (Toxi	c Substances Control Act) inventory - Status: Activ	/e	
Chemicals subject to the reporting red	quirements of Section 3	L3 of Title III of the Supe	rfund Amendments and Reauthorization Act	
(SARA) of 1986 and 40 CFR Part 372.				
CAS-No.	Name		Percent by Weight	
107-21-1	Ethylene glycol		2-68	

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15.2. US State Regulations

California Proposition 65

WARNING: This product can expose you to Ethylene glycol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Chemical Name (CAS No.)	Carcinogenicity	Developmental Toxicity	Female Reproductive Toxicity	Male Reproductive Toxicity
		ΤΟΧΙΟΙΤΥ	ΤΟΧΙΟΙΤΥ	TOXICITY
Ethylene glycol (107-21-1)		Х		

Ethylene glycol (107-21-1)	
U.S New Jersey - Right to Know	w Hazardous Substance List
U.S Pennsylvania - RTK (Right t	
U.S Massachusetts - Right To K	
-	to Know) - Environmental Hazard List
1,2-Propanediol (57-55-6)	
U.S New Jersey - Right to Know	v Hazardous Substance List
U.S Pennsylvania - RTK (Right t	to Know) List
Diethylene glycol (111-46-6)	
U.S Pennsylvania - RTK (Right t	co Know) List
15.3. Canadian Regulations	5
Ethylene glycol (107-21-1)	
Listed on the Canadian DSL (Don	nestic Substances List)
1,2-Propanediol (57-55-6)	
Listed on the Canadian DSL (Don	nestic Substances List)
Diethylene glycol (111-46-6)	
Listed on the Canadian DSL (Don	nestic Substances List)
ECTION 16: OTHER INFORM	IATION, INCLUDING DATE OF PREPARATION OR LAST REVISION
Date of Preparation or Latest	: 08/11/2022
Revision	
Indication of Changes	: Review of data. Language modified.
Other Information	: This document has been prepared in accordance with the SDS requirements of the OSHA
	Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products
	Regulations (HPR) SOR/2015-17.
GHS Full Text Phrases:	
H302	Harmful if swallowed
H373	May cause damage to organs through prolonged or repeated exposure
NFPA Health Hazard	: 1 - Materials that, under emergency conditions, can cause
	significant irritation.
NFPA Fire Hazard	: 1 - Materials that must be preheated before ignition can
	occur.
NFPA Reactivity Hazard	: 0 - Material that in themselves are normally stable, even
	under fire conditions.

The information contained herein is correct to the best of our knowledge, information, and belief and is designed only as guidance for the handling, use, processing, storage, transportation, disposal, and release of the product. User assumes all risks incident to use of this product and shall determine the quality and suitability of the product for its use. Supplier offers no warranty, express or implied, whatsoever, including warranties of merchantability or fitness for a particular purpose or otherwise, and specifically disclaims any and all liability for incidental, consequential, or other damages arising out the use or misuse of the product. The information provided relates only to the specific material provided and may not be valid if used in combination with any other materials or process, unless specified herein.