

K18220



MATERIAL SAFETY DATA SHEET

Emergency Telephone (614) 431-6600

Borden, Inc. Consumer Products Division 180 EAST BROAD STREET, COLUMBUS, OHIO 43215

1'00272

IF IT'S BORDEN-IT'S GOT TO BE GOOD

1386

THE OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200 REQUIRES THAT THE INFORMATION CONTAINED ON THESE SHEETS BE MADE AVAILABLE TO YOUR WORKERS. INSTRUCT YOUR WORKERS TO HANDLE THIS PRODUCT PROPERLY.

RECEIVED JAN 23 2000 Facilities Management HEALTH AND SAFETY PAGE 1

ATTN: SAFETY DIRECTOR

NON-EMERGENCY TELEPHONE 800-848-9400 (MSDS, ORDER) 614-431-6630 (TECH. INFO)

DESCRIPTION: ELMER'S REGULAR EPOXY, RESIN PHASE PRODUCT TYPE: EPOXY RESIN COMPOUND APPLICATION: E601PART1.

CUR ISS 19-MAR-96

SIGNAL WORD

CAUTION!

This material is a "health hazard" and/or a "physical hazard" as determined when reviewed according to the requirements of the Occupational Safety and Health Administration 29 CFR Part 1910.1200 "Hazard Communication" Standard.

CHEMICAL HAZARD RATING

HEALTH - 2 (moderate) FIRE = 1 (slight) REACTIVITY = 0 (least) CHRONIC = \*

29CFR1910.1200 HAZARDOUS INGREDIENTS/REPORTED HEALTH EFFECTS CAS/REGISTRY NO. MATERIAL DESCRIPTION % RANGE

The ingredients listed below have been associated with one or more of the listed immediate and/or delayed(+) health hazards. Risk of damage and effects depends upon duration and level of exposure. BEFORE USING OR HANDLING, READ AND UNDERSTAND THE MSDS.

25068-38 6 \*4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer

>70

May cause allergic skin reaction.

-- See Footnote C.

ACGIH TLV: NONE ESTABLISHED

OSHA PEL: NONE ESTABLISHED

12945-52-5 Silica, Amorphous, Fumed, Cryst.-Free

OSHA 1989 PEL remanded, but in effect in some states

10-30

See Footnote C.

ACGIH TLV: Silica, Total dust 10 mg/m³ TWA

OSHA PEL: 20 mpcf: 80/(%SiO2) mg/m³

REMANDED PEL: 6 mg/m³ TWA

Table with columns: Past-It\* Fax Note, Date, # of pages, Co./Dept, Phone#, Fax#. Contains handwritten entries: 7671, 1/23/97, 12, Nascos, Elmer's cust. Svs., 614-225-4370, 414-563-8296.

READ NEXT PAGE DISCLAIMER-SEE REVERSE SIDE



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**MATERIAL SAFETY DATA SHEET**

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Borden, Inc.

Consumer Products Division

180 EAST BROAD STREET, COLUMBUS, OHIO 43215

DESCRIPTION: ELMER'S REGULAR EPOXY, RESIN PHASE

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PRODUCT TYPE: EPOXY RESIN COMPOUND

CUR ISS 19-MAR-96

APPLICATION: E601PART1.

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29CFR1910.1200 HAZARDOUS INGREDIENTS/REPORTED HEALTH EFFECTS

CAS/REGISTRY NO. MATERIAL DESCRIPTION

% RANGE

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Footnote C: As of the date of issuance of this document, this material has not been listed by NTP, IARC or OSHA as a carcinogen.

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PHYSICAL DATA

Percent Volatiles	Negligible
pH @ 25 C	Not available
Specific Gravity	1.17
Appearance	Transparent viscous paste
Boiling Point	Not available
Vapor Density (Air=1)	Not available
Vapor Pressure, mm Hg @ 20 C	0.03 @ 25 deg C
Evaporation Rate (Butyl Acetate=1)	Not applicable
Upper/Lower Flammable Limits	Not available
Up/Lower Explosive Limits, % by Vol	Not available
Flash Point	480 deg F (249 deg C) (PMCC)
Freezing Point	Not available
Odor	Mild
Odor Threshold, ppm	Not available
Solubility in Water	Negligible
Coefficient of Water/Oil Distrib.	Not available

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IMMEDIATE HEALTH HAZARD DATA

SKIN ABSORPTION: No hazards known to Borden.

INGESTION: Not expected to be harmful under normal conditions of use.

INHALATION: Not expected to be harmful under normal conditions of use. However, if allowed to become airborne, may cause irritation of nose, throat and lungs.

SKIN: Causes irritation.

EYES: Causes irritation.

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HANDLING PRECAUTIONS

INHALATION: Avoid prolonged or repeated breathing of vapor.

SKIN: Avoid contact with skin.

EYES: Avoid contact with eyes.

Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of the material from eyes, skin and clothing.

Wash thoroughly after handling.

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READ NEXT PAGE

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IF IT'S BORDEN-IT'S  
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## MATERIAL SAFETY DATA SHEET

Borden, Inc.

Consumer Products Division

180 EAST BROAD STREET, COLUMBUS, OHIO 43215

Emergency Telephone  
(614) 431-8600

DESCRIPTION: ELMER'S REGULAR EPOXY, RESIN PHASE  
PRODUCT TYPE: EPOXY RESIN COMPOUND  
APPLICATION: E601PART1.

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CUR ISS 19-MAR-96

### EMERGENCY AND FIRST AID PROCEDURES

INGESTION: If accidentally swallowed, dilute by drinking large quantities of water. Immediately contact poison control center or hospital emergency room for any other additional treatment directions.

INHALATION: Remove to fresh air.

SKIN CONTACT: Flush skin with plenty of water. Remove contaminated clothing. Call a physician if irritation persists.

EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held apart during irrigation to insure water contact with entire surface of eyes and lids. Call a physician.

### FIRE AND EXPLOSION HAZARD DATA

Will burn.

In case of fire, use water spray, dry chemical, foam or CO<sub>2</sub>. Use water to keep fire-exposed containers cool.

### REACTIVITY DATA

Normally stable as defined in NFPA 704-12(4-3.1).

Hazardous polymerization:

Will not occur.

Incompatibilities:

Oxidizers, acids.

Other Hazards:

None known to Borden.

Decomposition products may include:

CO, aldehydes, organic acids and oxides of nitrogen

### CONTROL MEASURES

If airborne contaminants are generated when the material is heated or handled, sufficient ventilation in volume and air flow patterns should be provided to keep air contaminant concentration levels below acceptable criteria.

ENGINEERING CONTROLS: The following exposure control techniques may be used to effectively minimize employee exposure: local exhaust ventilation, enclosed system design, process isolation and remote control in combination with appropriate use of personal protective equipment and prudent work practices. These techniques may not necessarily address all issues pertaining to your operations. We, therefore, recommend that you consult with experts of your choice to determine whether or not your programs are adequate.

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**MATERIAL SAFETY DATA SHEET**

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Consumer Products Division

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Emergency Telephone  
(614) 431-6600

DESCRIPTION: ELMER'S REGULAR EPOXY, RESIN PHASE  
PRODUCT TYPE: EPOXY RESIN COMPOUND  
APPLICATION: E601PART1.

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**PERSONAL PROTECTION INFORMATION**

Where air contaminants can exceed acceptable criteria, use NIOSH/MSHA approved respiratory protection equipment. Respirators should be selected based on the form and concentration of contaminants in air in accordance with OSHA 29 CFR 1910.134 or other applicable standards or guidelines. Use goggles if contact is likely. Wear impervious gloves as required to prevent skin contact.

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**SPILL OR LEAK PROCEDURES**

Sweep (scoop) up and remove to a chemical disposal area. Prevent entry into natural bodies of water.

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**WASTE DISPOSAL**

Dispose of according to local, state/provincial, and federal requirements.

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**STORAGE PRECAUTIONS**

Store in a cool, dry place. Keep containers tightly closed.

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**TRANSPORT INFORMATION**

Not Regulated.

060 E601PART1.A

PREVIOUS ISSUE:

CURRENT ISSUE: 19-MAR-96

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THIS IS THE LAST PAGE

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# MATERIAL SAFETY DATA SHEET

Emergency Telephone  
(614) 431-8600

Borden, Inc.  
Consumer Products Division  
180 EAST BROAD STREET, COLUMBUS, OHIO 43216

SARA TITLE III SECTION 313  
AND 40 CFR Part 372  
TOXIC CHEMICAL NOTIFICATION SHEET

ELMER'S REGULAR EPOXY, RESIN PHASE

This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and Subpart C-Supplier Notification Requirement of 40 CFR Part 372.

CAS Registry Number	Chemical Name	Pct. By Weight
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None required per SARA TITLE III SECTION 313

This Toxic Chemical Notification Sheet must not be detached from the Material Safety Data Sheet (MSDS). Any copying and redistribution of the MSDS shall include copying and redistribution of this notification sheet attached to copies of the MSDS subsequently redistributed.

060 R601PART1.A

PRINT DATE: 21-Jan-97 09:52 AM



IF IT'S BORDEN-IT'S  
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**MATERIAL SAFETY DATA SHEET**

Emergency Telephone  
(814) 431-8600

Borden, Inc.  
Consumer Products Division  
180 EAST BROAD STREET, COLUMBUS, OHIO 43215

THE OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200 REQUIRES THAT THE INFORMATION CONTAINED ON THESE SHEETS BE MADE AVAILABLE TO YOUR WORKERS. INSTRUCT YOUR WORKERS TO HANDLE THIS PRODUCT PROPERLY.

ATTN: SAFETY DIRECTOR

NON-EMERGENCY TELEPHONE

800-848-9400 (MSDS ORDER)

614-431-6680 (TECH. INFO)

DESCRIPTION: ELMER'S REGULAR EPOXY, HARDENER PHASE  
PRODUCT TYPE: POLYAMIDE RESIN  
APPLICATION: E601PART2

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SIGNAL WORD

WARNING!

This material is a "health hazard" and/or a "physical hazard" as determined when reviewed according to the requirements of the Occupational Safety and Health Administration 29 CFR Part 1910.1200 "Hazard Communication" Standard.

CHEMICAL HAZARD RATING

HEALTH - 3 (high)

FIRE - 1 (slight)

REACTIVITY = 0 (least)

CHRONIC = +

29CFR1910.1200 HAZARDOUS INGREDIENTS/REPORTED HEALTH EFFECTS

CAS/REGISTRY NO.	MATERIAL DESCRIPTION	* RANGE
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The ingredients listed below have been associated with one or more of the listed immediate and/or delayed(\*) health hazards. Risk of damage and effects depends upon duration and level of exposure. BEFORE USING OR HANDLING, READ AND UNDERSTAND THE MSDS.

112 24-3	*Triethylenetetramine	10-30
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10-30

May cause allergic skin reaction.  
May cause allergic respiratory reaction.  
Can cause lung damage. Pre-existing respiratory disorders may be aggravated by exposure.  
Can cause liver damage.  
Can cause kidney damage.  
-- See Footnote C.

ACGIH TLV: NONE ESTABLISHED

OSHA PEL: NONE ESTABLISHED

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IF IT'S BORDEN-IT'S  
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**MATERIAL SAFETY DATA SHEET**

Emergency Telephone  
(614) 431-6600

Borden, Inc.  
Consumer Products Division  
180 EAST BROAD STREET, COLUMBUS, OHIO 43215

DESCRIPTION: ELMER'S REGULAR EPOXY, HARDENER PHASE  
PRODUCT TYPE: POLYAMIDE RESIN  
APPLICATION: 8601PART2.

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29CFR1910.1200 HAZARDOUS INGREDIENTS/REPORTED HEALTH EFFECTS	
CAS/REGISTRY NO.	MATERIAL DESCRIPTION
	% RANGE

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112941-23-1 Fatty Acids, C18-Unsatd., Dimers, Reaction Products  
With Polyethylenepolyamines

>70

-- See Footnote C.  
ACGIH TLV: NONE ESTABLISHED  
OSHA PEL: NONE ESTABLISHED

112941-52-5 Silica, Amorphous, Fumed, Cryst.-Free  
OSHA 1989 PEL remanded, but in effect in some states

10-30

-- See Footnote C.  
ACGIH TLV: Silica, Total dust 10 mg/m<sup>3</sup> TWA  
OSHA PEL: 20 mppcf; 80/(%SiO<sub>2</sub>) mg/m<sup>3</sup>  
REMANDED PEL: 6 mg/m<sup>3</sup> TWA

Footnote C: As of the date of issuance of this document, this material has not been listed by NTP, IARC or OSHA as a carcinogen.

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**PHYSICAL DATA**

Percent Volatiles	Negligible
pH @ 25 C	Not available
Specific Gravity	0.97
Appearance	Amber paste
Boiling Point	Decomposed
Vapor Density (Air=1)	>1
Vapor Pressure, mm Hg @ 20 C	Negligible @ 20 deg C
Evaporation Rate (Butyl Acetate=1)	Not applicable
Upper/Lower Flammable Limits	Not available
Up/Lower Explosive Limits, % By Vol	Not available
Flash Point	> 428 deg F (> 220 deg C) CCG
Freezing Point	Not available
Odor	Amine odor
Odor Threshold, ppm	Not available
Solubility in Water	Slight
Coefficient of Water/Oil Distrib.	Not available

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**IMMEDIATE HEALTH HAZARD DATA**

SKIN ABSORPTION: May be harmful if absorbed through skin.  
INGESTION: Not expected to be harmful under normal conditions of use.  
If accidentally swallowed, burns or irritation to mucous membranes, esophagus or GI tract can result.  
INHALATION: May be harmful if inhaled. Vapor may cause irritation of nose, throat and lungs.

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## MATERIAL SAFETY DATA SHEET

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Consumer Products Division

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Emergency Telephone  
(614) 431-8600

DESCRIPTION: ELMER'S REGULAR EPOXY, HARDENER PHASE  
PRODUCT TYPE: POLYAMIDE RESIN  
APPLICATION: E601PART2.

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CUR ISS 19-MAR-96

### IMMEDIATE HEALTH HAZARD DATA

SKIN: Causes chemical burns.  
EYES: Causes chemical burns.

### HANDLING PRECAUTIONS

SKIN ABSORPTION: Avoid contact with eyes, skin or clothing

INHALATION: Avoid breathing vapor.

Use with adequate ventilation.

SKIN: Do not get on skin.

EYES: Do not get in eyes.

Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of the material from eyes, skin and clothing.

Wash thoroughly after handling.

### EMERGENCY AND FIRST AID PROCEDURES

SKIN ABSORPTION: In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing and shoes before reuse.

INGESTION: If accidentally swallowed, dilute by drinking large quantities of water. Immediately contact poison control center or hospital emergency room for any other additional treatment directions.

INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Call a physician.

SKIN CONTACT: Immediately flush skin with plenty of water. Remove contaminated clothing. Call a physician. Wash clothing before reuse.

EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held apart during irrigation to insure water contact with entire surface of eyes and lids. Call a physician.

### FIRE AND EXPLOSION HAZARD DATA

Will burn.

In case of fire, use water spray, dry chemical, foam or CO<sub>2</sub>. Use water to keep fire-exposed containers cool.

### REACTIVITY DATA

Normally stable as defined in NFPA 704-12(4-3.1).

Hazardous polymerization:

Will not occur.

Incompatibilities:

Oxidizers, acids,

Other Hazards:

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**MATERIAL SAFETY DATA SHEET**Emergency Telephone  
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Borden, Inc.

Consumer Products Division

180 EAST BROAD STREET, COLUMBUS, OHIO 43215

DESCRIPTION: ELMER'S REGULAR EPOXY, HARDENER PHASE  
PRODUCT TYPE: POLYAMIDE RESIN  
APPLICATION: E601PART2.

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CUR ISS 19-MAR-96

None Known to Borden.

Decomposition products may include:  
Oxides of carbon and nitrogen.**CONTROL MEASURES**

If airborne contaminants are generated when the material is heated or handled, sufficient ventilation in volume and air flow patterns should be provided to keep air contaminant concentration levels below acceptable criteria.

**ENGINEERING CONTROLS:** The following exposure control techniques may be used to effectively minimize employee exposure: local exhaust ventilation, enclosed system design, process isolation and remote control in combination with appropriate use of personal protective equipment and prudent work practices. These techniques may not necessarily address all issues pertaining to your operations. We, therefore, recommend that you consult with experts of your choice to determine whether or not your programs are adequate.

**PERSONAL PROTECTION INFORMATION**

Wear synthetic apron and boots if contact is likely. Where air contaminants can exceed acceptable criteria, use NIOSH/MSHA approved respiratory protection equipment. Respirators should be selected based on the form and concentration of contaminants in air in accordance with OSHA 29 CFR 1910.134 or other applicable standards or guidelines. Use goggles and face shield if contact is likely. Wear impervious gloves as required to prevent skin contact.

**SPILL OR LEAK PROCEDURES**

Sweep (scoop) up and remove to a chemical disposal area.  
Prevent entry into natural bodies of water.

**WASTE DISPOSAL**

Dispose of according to local, state/provincial, and federal requirements.

**STORAGE PRECAUTIONS**

Store in a cool, dry place.  
Keep containers tightly closed.

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# MATERIAL SAFETY DATA SHEET

Borden, Inc.

Consumer Products Division

180 EAST BROAD STREET, COLUMBUS, OHIO 43215

Emergency Telephone  
(614) 431-8800

DESCRIPTION: ELMER'S REGULAR EPOXY, HARDENER PHASE  
PRODUCT TYPE: POLYAMIDE RESIN  
APPLICATION: E601PART2.

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CUR ISS 19-MAR-96

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**TRANSPORT INFORMATION**

Not Regulated.

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060 E601PART2.A

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# MATERIAL SAFETY DATA SHEET

Emergency Telephone  
(614) 431-6800

Borden, Inc.  
Consumer Products Division  
180 EAST BROAD STREET, COLUMBUS, OHIO 43215

SARA TITLE III SECTION 313  
AND 40 CFR Part 372  
TOXIC CHEMICAL NOTIFICATION SHEET

## ELMER'S REGULAR EPOXY, HARDENER PHASE

This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and Subpart C-Supplier Notification Requirement of 40 CFR Part 372.

CAS Registry Number	Chemical Name	Pct. By Weight
-----		

None required per SARA TITLE III SECTION 313

This Toxic Chemical Notification Sheet must not be detached from the Material Safety Data Sheet (MSDS). Any copying and redistribution of the MSDS shall include copying and redistribution of this notification sheet attached to copies of the MSDS subsequently redistributed.

060 E501PART2.A

PRINT DATE: 21-Jan-97 09:52 AM

**DISCLAIMER**

SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE OR CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED BY BORDEN, except that the product shall conform to contracted specifications, and that the product does not infringe any valid United States patent. The information provided herein was believed by Borden to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of product and to determine the suitability of the product for its intended use. Buyer's exclusive remedy shall be for damages and no claim of any kind, whether as to product delivered or for non-delivery of product, and whether based on contract, breach of warranty, negligence or otherwise shall be greater in amount than the purchase price of the quantity of product in respect of which damages are claimed. In no event shall Seller be liable for incidental or consequential damages, whether Buyer's claim is based on contract, breach of warranty, negligence or otherwise.

Vendor # 28160