

Excelsior Epoxy Wet Set Adhesive

Version Revision Date: MSDS Number: Date of last issue: -

1.0 8/23/2016 EW-710 – Part A Date of first issue: 03/04/2016

SECTION 1. IDENTIFICATION

Product name : Excelsior EW-710 - Part A

Product Description : Epoxy Wet Set Adhesive

Supplier : RHC

Address : 1602 N. Union St.

Fostoria, OH 44830

Telephone : (844) 393 - 4044

Fax : (419) 436 - 2482

Emergency Telephone : CHEMTREC: 1 (800) 424-9300

Number CANUTEC: (613) 996 - 6666

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification : H315 – Skin Irrit. 2

H319 – Eye Irrit. 2A H317 – Skin Sens. 1 H361 – Repr. 2

H402 – Aquatic Acute 3 H412 – Aquatic Chronic 3

See section 16 for full text of H-Phrases

GHS Label Elements

Hazard Pictograms



Signal Word : Danger

Hazard Statements : H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H361 - Suspected of damaging fertility or the unborn child

(oral).

H402 - Harmful to aquatic life.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary Statements : P261 - Avoid breathing vapors, mist, or spray.

P264 - Wash hands, forearms, and other exposed areas

thoroughly after handling.

P273 - Avoid release to the environment.



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P280 - Wear protective gloves, protective clothing, and eye

protection.

P302+P352 - IF ON SKIN: Wash with plenty of water. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

Other Hazards : Exposure may aggravate those with pre-existing eye, skin or

respiratory conditions.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Classification : Mixtures

Description : Adhesive

Hazardous Components

CAS#	Chemical Name	Percentage
25068-38-6	Bisphenol A-epichlorohydrin polymer	10 - 30
102900-03-8	Oxirane, methyl-, polymer with oxirane, ether with 1,2-propanediol (2:1), polymer with 1,3-diisocyanatomethylbenzene, nonylphenol-blocked (Polyurethane Prepolymer)	10 - 30
68609-97-2	Alkyl (C12-14) glycidyl ether	5 - 10
15625-89-5	Trimethylolpropane triacrylate	1 - 5
84852-15-3	Phenol, 4-nonyl-, branched	0.5 - 1.5
14808-60-7	Quartz*	0.1 - 1

^{*}This product contains a material that may be hazardous when present as an airborne dust. Since this product is in a liquid form, the material is not able to become airborne and cannot be inhaled. Thus, the hazards usually associated with this material are not applicable to this product.

SECTION 4. FIRST AID MEASURES

First Aid Measures

General : Never give anything by mouth to an unconscious person. If

you feel unwell, seek medical advice (show the label if

possible).

Inhalation : If inhaled, remove to fresh air and keep at rest in a position

comfortable for breathing. Obtain medical attention if

breathing difficulty persists.

Skin Contact : In case of skin contact, remove contaminated clothing. Gently

wash with plenty of soap and water followed by rinsing with water for at least 15 minutes. Call a POISON CENTER or doctor/physician if you feel unwell. Wash contaminated

clothing before reuse.



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Eye Contact: In case of eye contact, rinse cautiously with water for at least

15 minutes. Remove contact lenses, if present and easy to do

so. Continue rinsing.

Ingestion : Do NOT induce vomiting. Rinse mouth. Immediately call a

POISON CENTER or doctor/physician.

Most Important Symptoms and effects, Both Acute and Delayed

General : Irritation to eyes, skin and respiratory tract. May cause an

allergic skin reaction. Suspected of damaging fertility. Suspected of damaging the unborn child (oral).

Inhalation : May cause respiratory irritation.

Skin Contact : Causes skin irritation. Symptoms may include: Redness, pain,

swelling, itching, burning, dryness, and dermatitis. May cause

an allergic skin reaction.

Eye Contact : Causes serious eye damage. Symptoms may include:

Redness, pain, swelling, itching, burning, tearing, and blurred

vision.

Ingestion : Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms : Suspected of damaging fertility or the unborn child (oral).

Indications of Any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical attention (show product label where possible).

SECTION 5. FIREFIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing

Media

: Water spray, fog, carbon dioxide (CO₂), alcohol-resistant

foam, dry chemical, or sand.

Unsuitable Extinguishing

Media

: Do not use heavy water stream, as this may spread fire.

Specific Hazards Arising From Substance or Mixture

Fire Hazard : Potentially violent decomposition can occur above 662° F

(350 °C).

Explosion Hazard : Product is not explosive but if hazardous polymerization

occurs can have an oxidizing effect that could lead to fire and

possible explosion.

Reactivity: Hazardous reactions may occur on contact with certain

chemicals. Refer to incompatible materials.



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Advice for Firefighting

Precautionary Measures While Firefighting

: Exercise caution when fighting any chemical fire. Under fire

conditions, hazardous fumes may be present.

Specific Firefighting Instructions

: Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. Do not allow run-off from firefighting to enter sewage systems or water course. Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Specific Protection Equipment for Firefighters Do not enter fire area without proper protective equipment,

including respiratory protection.

Hazardous Combustion

Products

: Under fire conditions this material may produce hazardous carbon dioxide (CO2), carbon monoxide (CO), various low

molecular weight hydrocarbons, and smoke.

Other Information : Refer to Section 9 for flammability properties.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment & Emergency Procedures : Avoid all contact with skin, eyes or clothing. Do not breathe vapor, mist or spray. Use only outdoors or in a well-ventilated

area.

Instructions for Non-Emergency Personnel : Use appropriate personal protection equipment (PPE).

Evacuate unnecessary personnel.

Instructions for Emergency Personnel

: Equip cleanup crew with proper protection. 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 assistance of trained personnel as soon

as conditions permit.

Environmental Precautions : Do not allow product to reach sewage systems or water

course. Inform respective authorities in case of seepage into

sewage or water course.

Methods & Materials for Containment and Cleaning Up : Contain any spills with dikes or inert absorbent material (e.g. sand, diatomite, universal binder) to prevent migration into sewage systems and water course. Do not absorb with combustible materials, such as saw dust or cellulosic material. Clean up spills immediately and dispose of contaminated material according to section 13. Clean contaminated floors

and objects thoroughly while observing environmental regulations. Inform respective authorities in case of seepage into sewage or water course. Use only non-sparking tools.



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Reference to Other

Sections See section 13 for disposal information.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Additional Hazards When

Processed

: The substance will polymerize due to heating, on contact with incompatible materials, and under the influence of light. Heating may cause violent combustion or explosion producing acrid smoke. The substance may also spontaneously polymerize if it is not stabilized. Product to be handled in a closed system and under strictly controlled conditions.

: See Section 8 for information on personal protection.

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

procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when

leaving work.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures : Any proposed use of this product in elevated-temperature

processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained. Comply

with applicable regulations.

Storage Conditions : Store in a dry, cool and well-ventilated area. Keep container

closed when not in use. Keep in fireproof place. Keep/Store away from direct sunlight, extremely high or low temperatures

and incompatible materials.

Incompatible Materials : Strong acids. Strong bases. Strong oxidizers. Amines.

Fluorine. Ammonium salts.

Specific End Use(s) : No use specified.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with Workplace 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), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

Quartz (14808-60-7)		
USA ACGIH	ACGIH TWA (mg/m³)	0.025 mg/m³ (respirable fraction)
USA ACGIH	ACGIH chemical category	A2 - Suspected Human Carcinogen
USA OSHA	OSHA PEL (STEL) (mg/m³)	250 mppcf/%SiO ₂ +5, 10mg/m ³ /%SiO ₂ +2



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USA NIOSH	NIOSH REL (TWA) (mg/m³)	0.05 mg/m³ (respirable dust)
USA IDLH	US IDLH (mg/m³)	50 mg/m³ (respirable dust)
Alberta	OEL TWA (mg/m³)	0.025 mg/m³ (respirable particulate)
British Columbia	OEL TWA (mg/m³)	0.025 mg/m³ (respirable)
Manitoba	OEL TWA (mg/m³)	0.025 mg/m³ (respirable fraction)
New Brunswick	OEL TWA (mg/m³)	0.1 mg/m³ (respirable fraction)
Newfoundland & Labrador	OEL TWA (mg/m³)	0.025 mg/m³ (respirable fraction)
Nova Scotia	OEL TWA (mg/m³)	0.025 mg/m³ (respirable fraction)
Nunavut	OEL TWA (mg/m³)	0.1 mg/m³ (respirable mass)
Northwest Territories	OEL TWA (mg/m³)	0.1 mg/m³ (respirable mass)
Ontario	OEL TWA (mg/m³)	0.10 mg/m³ (designated substances regulation-respirable)
Prince Edward Island	OEL TWA (mg/m³)	0.025 mg/m³ (respirable fraction)
Québec	VEMP (mg/m³)	0.1 mg/m³ (respirable dust)
Saskatchewan	OEL TWA (mg/m³)	0.05 mg/m³ (respirable fraction)
Yukon	OEL TWA (mg/m³)	300 particle/mL

Exposure Controls

Engineering Controls

: Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure, but are not required. Product to be handled under strictly controlled conditions. Ensure all national/local regulations are observed. Gas detectors should be used when toxic gases may be released. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits.

Environmental Exposure Controls

: Do not allow product to be released into the environment.

Consumer Exposure Controls

: Do not eat, drink or smoke during use.

Personal Protective Equipment



General: : Wear protective goggles, gloves and protective clothing. In case of insufficient ventilation, wear respiratory protection.

Respiratory Protection : If exposure limits may be exceeded or irritation is experienced, use a NIOSH-approved respirator or self-

SAFETY DATA SHEET



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contained breathing apparatus.

Hand Protection : Wear chemically resistant protective gloves.

Eye Protection : Chemical goggles or safety glasses.

Skin & Body Protection : Wear suitable protective clothing.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Paste

Physical State : Thick Liquid

Color : Beige

Odor : No data available

Odor Threshold : No data available

pH : No data available

Evaporation Point : No data available

Melting Point / Range : No data available

Freezing Point : $32^{\circ} F (0^{\circ} C)$

Boiling Point / Range : >425° F (218° C)

Flash Point : >200° F (93° C) Setaflash Method

Flammability : No data available

Auto-Ignition Temperature : No data available

Decomposition Temperature : No data available

Specific Gravity : 1.5

Water Solubility : No data available

Partition Coefficient (Noctanol/Water)

: No data available

Viscosity : ~85,000 CPS

Explosion Data – : Not expected to present an explosion hazard due to

Mechanical Impact mechanical impact



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Explosion Data – Static

Discharge

: Not expected to present an explosion hazard due to static

discharge

VOC Content : < 12 g/l (<0.1 lbs/gal)

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Hazardous reactions are unlikely to occur under normal

circumstances.

Chemical Stability : Stable under recommended handling and storage conditions

(see section 7)

Possibility of Hazardous

Reactions

: Hazardous polymerization can occur in contact with certain

incompatible materials.

Conditions to Avoid : Direct sunlight. Extremely high or low temperatures. Ignition

sources. Incompatible materials.

Incompatible Materials : Strong acids. Strong bases. Strong oxidizers. Amines.

Fluorine. Ammonium salts.

Hazardous Decomposition

Products

: Under fire conditions this material may produce hazardous

carbon dioxide (CO₂), carbon monoxide (CO), various low

molecular weight hydrocarbons, and smoke.

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicological Effects (Product)

Acute Toxicity : Not available

Skin Corrosion / Irritation: Causes skin irritation.

Serious Eye Damage /

Irritation

: Causes serious eye irritation.

Respiratory or Skin

Sensitization:

: May cause an allergic skin reaction.

Germ Cell Mutagenicity : Not classified

Teratogenicity : Not classified

Carcinogenicity : Not classified

Reproductive Toxicity : Suspected of damaging fertility or the unborn child (oral).

Aspiration Hazard : Not classified



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Specific Target Organ Toxicity (Single or Repeated Exposure) : Not classified

Symptoms / Injuries After

Inhalation

: May cause respiratory irritation

Symptoms / Injuries After

Skin Contact

: Causes skin irritation. Symptoms may include: Redness, pain,

swelling, itching, burning, dryness, and dermatitis.

Symptoms / Injuries After

Skin Contact

: Causes serious eye irritation. Symptoms may include:

Redness, pain, swelling, itching, burning, tearing, and blurred

vision.

Symptoms / Injuries After

Skin Contact

: Ingestion is likely to me harmful or have adverse effects.

Chronic Symptoms : Suspected of damaging fertility or the unborn child (oral).

Toxicological Effects (Ingredients)

Acute toxicity :

Acute toxicity .		
Bisphenol A-epichlorohydrin polymer (25068-38-6)		
LD50 Oral Rat	> 2000 mg/kg	
LD50 Dermal Rat	> 2000 mg/kg	
Phenol, 4-nonyl-, branched (84852-15-3)		
LD50 Oral Rat	580 mg/kg	
LD50 Dermal Rabbit	2031 mg/kg	
Phenol (108-95-2)		
LD50 Oral Rat	340 mg/kg	
LD50 Dermal Rabbit	630 mg/kg	
LC50 Inhalation Rat	0.316 mg/l/4h (reported as 316 mg/m3/4h)	
ATE US (gases)	700.00 ppmV/4h	
Quartz (14808-60-7)		
LD50 Oral Rat	> 5000 mg/kg	
LD50 Dermal Rat	> 5000 mg/kg	
Trimethylolpropane triacrylate (15625-89-5)		
LD50 Dermal Rabbit	5000 mg/kg	
Quartz (14808-60-7)		
IARC Group	1	
National Toxicology Program (NTP) Status	Known Human Carcinogens.	
Trimethylolpropane triacrylate (15625-89-5)		
National Toxicology Program (NTP) Status	Evidence of Carcinogenicity.	



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SECTION 12. ECOLOGICAL INFORMATION

Toxicity

Ecology - General : Harmful to aquatic life with long lasting effects.

Ecotoxicity :

Bisphenol A-epichlorohydrin polymer (25068-38-6)	
LOEC (acute)	1 mg/l Daphnia magna
NOEC chronic crustacea	0.3 mg/l Daphnia magna

Phenol, 4-nonyl-, branched (84852-15-3)	
LC50 Fish 1	0.135 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	0.14 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC 50 Fish 2	0.1351 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])

Persistence & Degradability : Not available

Bioaccumulative Potential

Phenol, 4-nonyl-, branched	(84852-15-3)
BCF Fish 1	271

Mobility in Soil : Not available

Other Adverse Effects : None known

Other Information : Avoid release into the environment

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Sewage Disposal : This material is hazardous to the aquatic environment. Keep out of sewers and waterways. Do not empty into drains;

dispose of this material and its container in a safe way.

Waste Disposal : Dispose of waste material in accordance with international, national, federal, state/provincial and local regulations.



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SECTION 14. TRANSPORT INFORMATION

International Regulation

DOT : Not regulated as a dangerous good

IMDG-Code : Not regulated as a dangerous good

IATA-DGR : Not regulated as a dangerous good

UNRTDG : Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

US Federal Regulations

SARA 311/312 : Immediate (acute) health hazard Hazard Classes (Product) Delayed (chronic) health hazard

Bisphenol A-epichlorohydrin polymer (25068-38-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Phenol, 4-nonyl-, branched (84852-15-3)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Listed on United States SARA Section 313		
EPA TSCA Regulatory Flag	 T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA. S - S - indicates a substance that is identified in a proposed or final Significant New Uses Rule. 	
SARA Section 313 - Emission Reporting	10%	

Alkyl (C12-14) glycidyl ether (68609-97-2)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a	
	Section 4 test rule under TSCA.	

Propanol, oxybis-, dibenzoate (27138-31-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Quartz (14808-60-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Oxirane, methyl-, polymer with oxirane, ether with 1,2-propanediol (2:1), polymer with 1,3-diisocyanatomethylbenzene, nonylphenol-blocked (102900-03-8) (Polyurethane Prepolymer)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Trimethylolpropane triacrylate (15625-89-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory



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US Federal Regulations

Quartz (14808-60-7)U.S. - California - Proposition 65 -WARNING: This product contains chemicals known to the State of California to cause cancer.

Quartz (14808-60-7)

U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

Canadian Regulation

WHMIS Classification

(T)

: Class D Division 2 Subdivision A - Very toxic material causing other toxic effects

Class D Division 2 Subdivision B - Toxic material causing

other toxic effects

Bisphenol A-epichlorohydrin polymer (25068-38-6)		
Listed on the Canadian DSL (Domestic Substances List)		
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects	

Phenol, 4-nonyl-, branched (84852-15-3)	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic
	effects
	Class D Division 2 Subdivision B - Toxic material causing other toxic effects

4	Alkyl (C12-14) glycidyl ether (68609-97-2)		
	Listed on the Canadian DSL (Domestic Substances List)		
7	WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects	

Propanol, oxybis-, dibenzoate (27138-31-4)		
Listed on the Canadian DSL (Domestic Substances List)		
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria	

Quartz (14808-60-7)		
Listed on the Canadian	DSL (Domestic Substances List)	
Listed on the Canadian	Listed on the Canadian IDL (Ingredient Disclosure List)	
IDL Concentration 1 %	DL Concentration 1 %	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic	
	effects	

Oxirane, methyl-, polymer with oxirane, ether with 1,2-propanediol (2:1), polymer with	
1,3-diisocyanatomethylbenzene, nonylphenol-blocked (102900-03-8) (Polyurethane	
Prepolymer)	
Listed on the Canadian DSL (Demostic Substances List)	

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification | Class D Division 2 Subdivision B - Toxic material causing other toxic effects

Trimethylolpropane	Trimethylolpropane triacrylate (15625-89-5)	
Listed on the Canadian DSL (Domestic Substances List)		
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects	

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and this SDS contains all of the information required by CPR.



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SECTION 16. OTHER INFORMATION

Revision Date : 8.23.2016

Other Information : This document has been prepared in accordance with the

SDS requirements of OSHA Hazard Communication Standard

29 CFR 1910.1200.

GHS Full Text Phrases

GHS Code	GHS Phrase
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H361	Suspected of damaging fertility or the unborn child
H402	Harmful to aquatic life
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.