

Excelsior USD-810 – Part B

Excelsior Urethane Wet Set ESD Adhesive

Version 1.0 Revision Date: 9/26/2016 MSDS Number: USD-810 – Part B Date of last issue: -
Date of first issue: 03/04/2016

SECTION 1. IDENTIFICATION

Product name : Excelsior USD-810 - Part B

Product Description : Urethane Wet Set ESD Adhesive

Supplier : RHC

Address : 1602 N. Union St.
Fostoria, OH 44830

Telephone : (844) 393 - 4044

Fax : (419) 436 - 2482

Emergency Telephone Number : CHEMTREC: 1 (800) 424-9300
CANUTEC: (613) 996 - 6666

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification : H302 – Acute Tox. 4 (Oral)
H314 – Skin Corr. 1B
H318 – Eye Dam. 1
H317 – Skin Sens. 1
H340 – Muta. 1B
H361 – Repr. 2
H373 – STOT RE 2
H400 – Aquatic Acute 1
H410 – Aquatic Chronic 1

See section 16 for full text of H-Phrases

GHS Label Elements

Hazard Pictograms :



Signal Word : Danger

Hazard Statements : H302 – Harmful if swallowed.
H314 - Causes severe skin burns and eye damage.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.
H340 – May cause genetic defects.
H361 – Suspected of damaging fertility or the unborn child.
H373 – May cause damage to organs through prolonged or repeated exposure.

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H400 – Very toxic to aquatic life.
 H410 – Very toxic to aquatic life with long lasting effects.

Precautionary Statements :

- P260 - Do not breathe vapors, mist, or spray.
- P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
- P270 – Do not eat, drink or smoke when using this product.
- P273 - Avoid release to the environment.
- P280 - Wear protective gloves, protective clothing, and eye protection.
- P301+P330+P331+P312 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Call a poison center or doctor if you feel unwell.
- P303+P361+P353 - IF ON SKIN (OR HAIR): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
- 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 : May be corrosive to respiratory tract.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Classification : Mixtures

Description : Adhesive

Hazardous Components

CAS#	Chemical Name	Percentage
68082-29-1	Fatty acids, C18-unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine	15 - 40
84852-15-3	Nonyl Phenol	10 - 30
90-72-2	2,4,6-Tri(dimethylaminomethyl)phenol	5 – 10
112-57-2	Tetraethylenepentamine	5 – 10
1761-71-3	Cyclohexanamine, 4,4'-methylenebis-	3 - 7
1333-86-4	Carbon Black*	3 – 7
13463-67-7	Titanium Dioxide*	3 – 7

**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

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- | | |
|---------------------|--|
| 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, move to fresh air and keep at rest in a position comfortable for breathing. Seek medical advice if breathing difficulty persists. |
| Skin Contact | : In case of skin contact, remove contaminated clothing and shoes. Immediately flush skin with plenty of water for at least 60 minutes. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse. |
| Eye Contact | : In case of eye contact, rinse cautiously with plenty of water for at least 60 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Seek medical attention immediately. |
| Ingestion | : If swallowed, do not induce vomiting. If conscious, rinse out mouth and drink plenty of water. Contact a POISON CENTER or doctor/physician immediately. |

Most Important Symptoms and effects, Both Acute and Delayed

- | | |
|-------------------------|---|
| General | : Causes severe skin burns and eye damage. May be harmful if swallowed and enters airways. May cause an allergic skin reaction. May cause heritable genetic damage. Suspected of damaging fertility. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure. |
| Inhalation | : May be corrosive to the respiratory tract. |
| Skin Contact | : Causes severe skin burns. Contact may cause immediate severe irritation progressing quickly to chemical burns. 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. Causes permanent damage to the cornea, iris, or conjunctiva. |
| Ingestion | : May be fatal if swallowed and enters airways. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. |
| Chronic Symptoms | : Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. May cause heritable genetic damage. |

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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** : Use extinguishing media appropriate for area.
- Unsuitable Extinguishing Media** : Do not use heavy water stream, as this may spread fire.

Specific Hazards Arising From Substance or Mixture

- Fire Hazard** : Product is not flammable.
- Explosion Hazard** : Product is not explosive.
- Reactivity** : Thermal decomposition generates corrosive vapors.

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. 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. Do not allow product to spread into the environment.
- Instructions for Non-Emergency Personnel** : Use appropriate personal protection equipment (PPE). Evacuate unnecessary personnel.

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- Instructions for Emergency Personnel** : Equip cleanup crew with proper protection. Stop leaks if safe to do so. Ventilate area. 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, sawdust, etc.) to prevent migration into sewage systems and water course. Transfer spilled material to suitable container for disposal. 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.
- Reference to Other Sections** : See Section 8 for information on personal protection. See section 13 for disposal information.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

- Hygiene Measures** : Handle in accordance with industrial hygiene best practices 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** : 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. Store in corrosive resistant container with a resistant inner liner.
- Incompatible Materials** : Strong acids, strong bases, strong oxidizers.
- Specific End Use(s)** : No use specified.

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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.

Carbon black (1333-86-4)		
USA ACGIH	ACGIH TWA (mg/m ³)	3 mg/m ³ (inhalable fraction)
USA ACGIH	ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
USA OSHA	OSHA PEL (TWA) (mg/m ³)	3.5 mg/m ³
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	3.5 mg/m ³ 0.1 mg/m ³ (Carbon black in presence of Polycyclic aromatic hydrocarbons)
USA IDLH	US IDLH (mg/m ³)	1750 mg/m ³
Alberta	OEL TWA (mg/m ³)	3.5 mg/m ³
British Columbia	OEL TWA (mg/m ³)	3 mg/m ³ (inhalable)
Manitoba	OEL TWA (mg/m ³)	3 mg/m ³ (inhalable fraction)
New Brunswick	OEL TWA (mg/m ³)	3.5 mg/m ³
Newfoundland & Labrador	OEL TWA (mg/m ³)	3 mg/m ³ (inhalable fraction)
Nova Scotia	OEL TWA (mg/m ³)	3 mg/m ³ (inhalable fraction)
Nunavut	OEL STEL (mg/m ³)	7 mg/m ³
Nunavut	OEL TWA (mg/m ³)	3.5 mg/m ³
Northwest Territories	OEL STEL (mg/m ³)	7 mg/m ³
Northwest Territories	OEL TWA (mg/m ³)	3.5 mg/m ³
Ontario	OEL TWA (mg/m ³)	3 mg/m ³ (inhalable)
Prince Edward Island	OEL TWA (mg/m ³)	3 mg/m ³ (inhalable fraction)
Québec	VEMP (mg/m ³)	3.5 mg/m ³
Saskatchewan	OEL STEL (mg/m ³)	7 mg/m ³
Saskatchewan	OEL TWA (mg/m ³)	3.5 mg/m ³
Yukon	OEL STEL (mg/m ³)	7 mg/m ³
Yukon	OEL TWA (mg/m ³)	3.5 mg/m ³

Titanium dioxide (13463-67-7)		
USA ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ (total dust)
USA IDLH	US IDLH (mg/m ³)	5000 mg/m ³
Alberta	OEL TWA (mg/m ³)	10 mg/m ³
British Columbia	OEL TWA (mg/m ³)	10 mg/m ³ (total dust) 3 mg/m ³ (respirable fraction)
Manitoba	OEL TWA (mg/m ³)	10 mg/m ³
New Brunswick	OEL TWA (mg/m ³)	10 mg/m ³
Newfoundland & Labrador	OEL TWA (mg/m ³)	10 mg/m ³
Nova Scotia	OEL TWA (mg/m ³)	10 mg/m ³
Nunavut	OEL TWA (mg/m ³)	5 mg/m ³ (respirable mass) 10 mg/m ³ (total mass)
Northwest Territories	OEL TWA (mg/m ³)	5 mg/m ³ (respirable mass) 10 mg/m ³ (total mass)

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Ontario	OEL TWA (mg/m ³)	10 mg/m ³
Prince Edward Island	OEL TWA (mg/m ³)	10 mg/m ³
Québec	VEMP (mg/m ³)	10 mg/m ³ (containing no Asbestos and <1% Crystalline silica-total dust)
Saskatchewan	OEL STEL (mg/m ³)	20 mg/m ³
Saskatchewan	OEL TWA (mg/m ³)	10 mg/m ³
Yukon	OEL STEL (mg/m ³)	20 mg/m ³
Yukon	OEL TWA (mg/m ³)	30 mppcf 10 mg/m ³

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. Ensure all national/local regulations are observed.
- 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.
- Materials for Protective Clothing** : Chemically resistant materials and fabrics.
- Respiratory Protection** : If exposure limits may be exceeded or irritation is experienced, use a NIOSH-approved respirator or self-contained breathing apparatus.
- Hand Protection** : Wear chemically resistant protective gloves.
- Eye Protection** : Wear chemical goggles or safety glasses.
- Skin & Body Protection** : Wear suitable chemically resistant protective clothing.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Thick Paste
Physical State	: Paste
Color	: Black
Odor	: Amine Odor
Odor Threshold	: No data available
pH	: No data available
Evaporation Point	: No data available
Melting Point / Range	: No data available
Freezing Point	: 32° F (0° C)
Boiling Point / Range	: ~390.2° F (199° C)
Flash Point	: >199.4° F (93° C)
Flammability	: No data available
Auto-Ignition Temperature	: No data available
Decomposition Temperature	: No data available
Specific Gravity	: 1.25
Water Solubility	: No data available
Partition Coefficient (Noctanol/Water)	: No data available
Viscosity	: ~100,000 – 130,000 CPS
Explosion Data – Mechanical Impact	: Not expected to present an explosion hazard due to mechanical impact
Explosion Data – Static Discharge	: Not expected to present an explosion hazard due to static discharge
VOC	: < 12 g/l (< 0.1 lbs/gal)

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Thermal decomposition generates corrosive vapors.
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- Chemical Stability** : Stable under recommended handling and storage conditions (see section 7)
- Possibility of Hazardous Reactions** : Hazardous polymerization will not occur.
- Conditions to Avoid** : Direct sunlight. Extremely high or low temperatures. 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), nitrogen oxides, various low molecular weight hydrocarbons, and smoke.

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicological Effects (Product)

Acute toxicity :

ATE US (oral)	1,203.53 mg/kg body weight
ATE US (dust, mist)	3.41 mg/l/4h

Skin Corrosion / Irritation : Causes severe skin burns and eye damage.

Serious Eye Damage / Irritation : Causes serious eye damage.

Respiratory or Skin Sensitization: : May cause an allergic skin reaction.

Germ Cell Mutagenicity : May cause genetic defects.

Teratogenicity : Not classified

Carcinogenicity : Not classified

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

Aspiration Hazard : Not classified

Specific Target Organ Toxicity (Single Exposure) : Not classified

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Specific Target Organ Toxicity (Repeated Exposure)	: May cause damage to organs through prolonged or repeated exposure.
Symptoms / Injuries After Inhalation	: May be corrosive to the respiratory tract.
Symptoms / Injuries After Skin Contact	: Causes severe skin burns. Contact may cause immediate severe irritation progressing quickly to chemical burns. Symptoms may include: Redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause an allergic skin reaction.
Symptoms / Injuries After Skin Contact	: Causes serious eye irritation. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision. Causes permanent damage to the cornea, iris, or conjunctiva.
Symptoms / Injuries After Skin Contact	: May be fatal if swallowed and enters airways. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.
Chronic Symptoms	: Suspected of damaging fertility or the unborn child. May cause heritable genetic damage.

Toxicological Effects (Ingredients)

Acute toxicity :

Fatty acids, C18-unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine (68082-29-1)	
LD50 Oral Rat	> 2000 mg/kg
LD50 Dermal Rat	> 2000 mg/kg
Cyclohexanamine, 4,4'-methylenebis- (1761-71-3)	
LD50 Oral Rat	1000 mg/kg
2,4,6-Tri(dimethylaminomethyl)phenol (90-72-2)	
LD50 Oral Rat	1000 mg/kg
LD50 Dermal Rat	1280 mg/kg
Tetraethylenepentamine (112-57-2)	
LD50 Oral Rat	2100 mg/kg
LD50 Dermal Rabbit	660 µl/kg
Carbon black (1333-86-4)	
LD50 Oral Rat	> 8000 mg/kg
Titanium dioxide (13463-67-7)	
LD50 Oral Rat	> 10000 mg/kg
Carbon black (1333-86-4)	
IARC Group	2B
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.

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SECTION 12. ECOLOGICAL INFORMATION
Toxicity

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

Ecotoxicity :

Tetraethylenepentamine (112-57-2)	
LC50 Fish 1	420 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [static])
EC50 Daphnia 1	24.1 mg/l (Exposure time: 48 h - Species: Daphnia magna)
Cyclohexanamine, 4,4'-methylenebis- (1761-71-3)	
Log Pow	2.03
Phenol, 4-nonyl-, branched (84852-15-3)	
BCF Fish 1	271

Persistence & Degradability : Not available

Bioaccumulative Potential :

Tetraethylenepentamine (112-57-2)	
BCF Fish 1	(no bioaccumulation expected)
Log Pow	< 1
Cyclohexanamine, 4,4'-methylenebis- (1761-71-3)	
Log Pow	2.03
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

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

Ecology – Waste Materials : Avoid release to the environment.

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SECTION 14. TRANSPORT INFORMATION

In Accordance with DOT

Proper Shipping Name : CORROSIVE LIQUIDS, N.O.S. (2,4,6-Tri(dimethylaminomethyl)phenol , Tetraethylenepentamine)

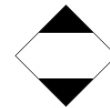
Hazard Class : 8

Identification Number : UN1760

Label Codes : 8

Packing Group : II

DOT Exemption - Limited Quantities : Packages having a volumetric capacity of no more than 1.0L/0.3 gallons and meeting the requirements of 49 CFR 173.154(b) are exempt from many of the DOT requirements for this classification. Each package must display the following limited quantity label:



In Accordance with IMDG

Proper Shipping Name : CORROSIVE LIQUIDS, N.O.S. (2,4,6-Tri(dimethylaminomethyl)phenol , Tetraethylenepentamine)

Hazard Class : 8

Identification Number : UN1760

Label Codes : 8

Packing Group : II

EMS-No. (Fire) : F-A

EMS-No. (Spillage) : S-B

Marine Pollutant : Marine Pollutant



In Accordance with IATA

Proper Shipping Name : CORROSIVE LIQUIDS, N.O.S. (2,4,6-Tri(dimethylaminomethyl)phenol , Tetraethylenepentamine)

Packing Group : II

Hazard Class : 8

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Identification Number : UN1760

Label Codes : 8

ERG Code (IATA) : 8L



In Accordance with TDG

Proper Shipping Name : CORROSIVE LIQUIDS, N.O.S. (2,4,6-Tri(dimethylaminomethyl)phenol , Tetraethylenepentamine)

Packing Group : II

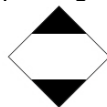
Hazard Class : 8

Identification Number : UN1760

Label Codes : 8

Marine Pollutant : Marine Pollutant

TDG Exemption - Limited Quantities : Packages having a volumetric capacity of no more than 1.0L and meeting the requirements of Transportation of Dangerous Goods Part 1 Section 1.17 Limited Quantities are exempt from many of the TDG requirements for this classification. Each package must display the following limited quantity label.



SECTION 15. REGULATORY INFORMATION

US Federal Regulations

SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard
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Fatty acids, C18-unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine (68082-29-1)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Triethylenetetramine (112-24-3)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
2,4,6-Tri(dimethylaminomethyl)phenol (90-72-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Tetraethylenepentamine (112-57-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Carbon black (1333-86-4)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Titanium dioxide (13463-67-7)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard
Cyclohexanamine, 4,4'-methylenebis- (1761-71-3)	
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	1.0 %

US State Regulations

Carbon black (1333-86-4)
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances U.S. - Pennsylvania - RTK (Right to Know) List
Titanium dioxide (13463-67-7)
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
Tetraethylenepentamine (112-57-2)
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 Regulations

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 Class E - Corrosive Material
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Fatty acids, C18-unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine (68082-29-1)	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class E - Corrosive Material
2,4,6-Tri(dimethylaminomethyl)phenol (90-72-2)	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class E - Corrosive Material
Tetraethylenepentamine (112-57-2)	
Listed on the Canadian DSL (Domestic Substances List)	
Listed on the Canadian IDL (Ingredient Disclosure List)	
IDL Concentration 1 %	
WHMIS Classification	Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects Class E - Corrosive Material
Cyclohexanamine, 4,4'-methylenebis- (1761-71-3)	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class E - Corrosive Material 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
Carbon black (1333-86-4)	
Listed on the Canadian DSL (Domestic Substances List)	
Listed on the Canadian IDL (Ingredient Disclosure List)	
IDL Concentration 1 %	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects
Titanium dioxide (13463-67-7)	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision A - Very 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.

SECTION 16. OTHER INFORMATION

Revision Date	: 9.26.2016
Other Information	: This document has been prepared in accordance with the SDS requirements of OSHA Hazard Communication Standard 29 CFR 1910.1200.
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Excelsior USD-810 – Part B
Excelsior Urethane Wet Set ESD Adhesive

Version Revision Date: MSDS Number: Date of last issue: -
1.0 9/26/2016 USD-810 – Part B Date of first issue: 03/04/2016

GHS Full Text Phrases

GHS Code	GHS Phrase
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H340	May cause genetic defects
H411	Toxic 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.