

**Excelsior FR-920**  
Excelsior Finish Remover

Version	Revision Date:	MSDS Number:	Date of first issue:
1.1	11/15/2021	FR-920	03/04/2016

**SECTION 1. IDENTIFICATION**

**Product Name** : Excelsior Finish Remover  
**Product Code** : FR-920  
**Supplier** : RHC  
**Address** : 1602 N. Union St.  
Fostoria, OH 44830  
**Telephone** : (844) 393 - 4044

**Fax** : (419) 436 - 2482  
**Emergency Telephone Number** : (CHEMTREC): (800) 424-9300  
(CHEMTREC International): (703) 527-3887  
Industrial Health/Spill Emergency: (706) 277-130

**SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification** : H227 – Flam. Liq. 4  
H302 – Acute Tox. 4 (Oral)  
H314 – Skin Corr. 1A  
H318 – Eye Dam. 1

See section 16 for full text of H-Phrases

**GHS Label Elements**

**Hazard Pictograms** :



**Signal Word** : Danger

**Hazard Statements** : H227 - Combustible liquid.  
H302 - Harmful if swallowed.  
H314 - Causes severe skin burns and eye damage.  
H318 - Causes serious eye damage.

**Precautionary Statements** : **Prevention:**  
P210 - Keep away from heat/sparks/open flames/hot surfaces.  
P264 - Wash skin thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**  
P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.  
P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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P304 + P340 + P310 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.  
P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.  
P363 Wash contaminated clothing before reuse.  
P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.  
**Storage:**  
P403 + P235 - Store in a well-ventilated place. Keep cool.  
P405 Store locked up.  
**Disposal:**  
P501 - Dispose of contents/ container to an approved waste disposal plant.

Other Hazards : None

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Classification : Mixtures  
Description : Cleaner

#### Hazardous Components

CAS#	Chemical Name	Percentage
111-76-2	2-butoxyethanol	20 - 30
141-43-5	2-aminoethanol	5 – 10

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### SECTION 4. FIRST AID MEASURES

**Inhalation** : If inhaled, move to fresh air in case of accidental inhalation of vapors. Provide oxygen or artificial respiration if needed. Call a physician or poison control center immediately.

**Skin Contact** : In case of skin contact, wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.

**Eye Contact** : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Seek medical advice.

**Ingestion** : Do not induce vomiting without medical advice. If conscious, drink plenty of water. Never give anything by mouth to an unconscious person.

**Most Important Symptoms and Effects, Both Acute and Delayed** : None known.

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### SECTION 5. FIREFIGHTING MEASURES

- Suitable Extinguishing Media** : Foam  
Carbon dioxide (CO<sub>2</sub>)  
ABC powder  
Water mist
- Specific Hazards During Firefighting** : Burning produces irritant fumes. Exposure to decomposition products may be a hazard to health.
- Specific Extinguishing Methods** : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special Protective Equipment for Firefighters** : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Exposure to decomposition products may be a hazard to health.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal Precautions, Protective Equipment and Emergency Procedures** : Use personal protective equipment. Ensure adequate ventilation. Material can create slippery conditions. Use non-slip safety shoes in areas where spills or leaks can occur.
- Environmental Precautions** : Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Do not allow contact with soil, surface or ground water. Do not allow uncontrolled discharge of product into the environment.
- Methods and Materials for Containment and Cleaning Up** : Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel. Pick up and transfer to properly labelled containers. Clean contaminated floors and objects thoroughly while observing environmental regulations.

### SECTION 7. HANDLING AND STORAGE

- Advice on Protection Against Fire and Explosion** : The product is flammable but not readily ignited.
- Advice on Safe Handling** : Wear personal protective equipment. Handle with care. Take care to avoid waste and spillage when weighing, loading and mixing the product.
- Conditions for Safe Storage** : No smoking. Keep in properly labelled containers. Observe label precautions. Keep containers tightly closed in a dry, cool and well-ventilated place.

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**Materials to Avoid** : Do not freeze. Keep away from oxidizing agents and strongly acid or alkaline materials. Keep away from food and drink. Keep away from tobacco products.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with Workplace Control Parameters

Components	CAS-No.	Value Type (Form of Exposure)	Control Parameters / Permissible Concentration	Basis
<b>2-butoxyethanol</b>	111-76-2	TWA	20 ppm	ACGIH
		TWA	5 ppm 24 mg/m <sup>3</sup>	NIOSH REL
		TWA	50 ppm 240 mg/m <sup>3</sup>	OSHA Z-1
		TWA	25 ppm 120 mg/m <sup>3</sup>	OSHA P0
<b>2-aminoethanol</b>	141-43-5	TWA	3 ppm	ACGIH
		STEL	6 ppm	ACGIH
		TWA	3 ppm 8 mg/m <sup>3</sup>	NIOSH REL
		ST	6 ppm 15 mg/m <sup>3</sup>	NIOSH REL
		TWA	3 ppm 6 mg/m <sup>3</sup>	OSHA Z-1
		STEL	6 ppm 15 mg/m <sup>3</sup>	OSHA P0
		TWA	3 ppm 8 mg/m <sup>3</sup>	OSHA P0

#### Biological Occupational Exposure Limits

Components	CAS-No.	Control Parameters	Biological Specimen	Sampling Time	Permissible Concentrations	Basis
<b>2-butoxy-ethanol</b>	111-76-2	Butoxyacetic Acid (BAA)	Urine	End of shift (As soon as possible after exposure ceases)	TWA	ACGIH

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### Exposure Controls

- Engineering Controls** : Ensure adequate ventilation, especially in confined areas. Maintain air concentrations below occupational exposure standards. 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

- Respiratory Protection** : Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.
- Hand Protection** : Wear impervious gloves.
- Eye Protection** : Wear safety glasses with side-shields, tightly fitting safety goggles or a face-shield.
- Skin & Body Protection** : Wear suitable protective, chemically resistant clothing and footwear. Rinse skin after contact. Change contaminated clothing before reuse.
- Protective Measures** : Avoid contact with skin. When using do not eat, drink or smoke. Wear personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- Hygiene Measures** : Do not smoke. Keep away from food and drink. Avoid contact with skin, eyes and clothing. Change working clothes after each workshift. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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- Appearance** : Liquid
- Color** : Clear
- Odor** : Characteristic
- pH** : 11.5 – 12.5
- Melting Point / Range** : No data available
- Freezing Point** : No data available
- Boiling Point / Range** : 212 °F (100° C)

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<b>Flash Point</b>	: 163 °F (72.7° C)
<b>Flammability</b>	: No data available
<b>Auto-Ignition Temperature</b>	: No data available
<b>Decomposition Temperature</b>	: No data available
<b>Upper &amp; Lower Flammability Limit</b>	: None
<b>Density</b>	: 955 - 965 kg/m <sup>3</sup>
<b>Water Solubility</b>	: Completely soluble
<b>Solvent Solubility</b>	: No data available
<b>VOC Content</b>	: < 1%

### SECTION 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	: Stable under normal conditions.
<b>Chemical Stability</b>	: Stable under recommended handling and storage conditions (see section 7).
<b>Possibility of Hazardous Reactions</b>	: None known.
<b>Conditions to Avoid</b>	: Protect from freezing.
<b>Incompatible Materials</b>	: Strong acids, strong bases, strong oxidizers.
<b>Hazardous Decomposition Products</b>	: Carbon dioxide (CO <sub>2</sub> ), carbon monoxide (CO), oxides of nitrogen (NO <sub>x</sub> ), dense black smoke.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Toxicological Effects (Product)

<b>Acute Oral Toxicity</b>	: LD50 Oral (Rat): 1,720 mg/kg Target Organs: Lungs, Upper respiratory tract, Gastrointestinal tract, Eyes, Skin Remarks: Harmful if swallowed.
<b>Acute Inhalation Toxicity</b>	: Inhalation of mist or dried residue causes irritation of respiratory system.
<b>Skin Corrosion / Irritation</b>	: Acute dermal irritation/corrosion
<b>Serious Eye Damage /</b>	: Acute eye irritation/corrosion

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### Irritation

**Respiratory or Skin Sensitization** : Not classified

**Germ Cell Mutagenicity** : Not classified

**Teratogenicity** : Not classified

**Carcinogenicity** : Not classified

**Reproductive Toxicity** : Not classified

**Aspiration Hazard** : Not classified

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

### Carcinogenic Categories

**IARC** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.

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## SECTION 12. ECOLOGICAL INFORMATION

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### Ecotoxicity (Product)

**Toxicity to Fish** : LC50 (Pimephales promelas (fathead minnow)): 227 mg/l  
Exposure time: 96 h

**Toxicity to Daphnia and Other Aquatic Invertebrates** : Not available

**Toxicity to Algae** : Not available

**Persistence & Degradability** : Not available

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**Bioaccumulative Potential** : Not available

**Mobility in Soil** : Not available

**Other Adverse Effects** : None known

**Other Information** : Avoid release into the environment

### SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal Methods

**Waste from Residues** : Do not dispose of waste into sewer. Dispose of in accordance with federal, state/province and local regulations.

**Contaminated Packaging** : Clean container with water. Empty containers should be taken to an approved waste handling site for recycling or disposal.

### SECTION 14. TRANSPORT INFORMATION

#### International Regulation

##### **IMDG-Code**

UN number : UN 1760

Proper shipping name : CORROSIVE LIQUID, N.O.S.

Class : 8

Packing group : II

Labels : 8

EmS Code : F-A, S-B

Marine pollutant : no

##### **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

##### **IATA-DGR**

UN/ID No. : UN 1760

Proper shipping name : CORROSIVE LIQUID, N.O.S. (ETHANOLAMINE)

Class : 8

Packing group : II

Labels : CORROSIVE

Packing instruction (cargo aircraft) : 855

#### National Regulation

##### **49 CFR**

UN number : UN 1760

Proper shipping name : CORROSIVE LIQUID, N.O.S. (ETHANOLAMINE)



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Class    : 8  
Packing group                                : II  
Labels                                         : CORROSIVE  
ERG Code                                     : 154  
Marine pollutant                             : no

### SECTION 15. REGULATORY INFORMATION

**SARA 302**                                     : Immediate (acute) health hazard.

**SARA 313**                                     : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**California Prop 65**                         : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### SECTION 16. OTHER INFORMATION

**Revision Date**                                : 11.15.2021  
**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
H227	Combustible Liquid
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage

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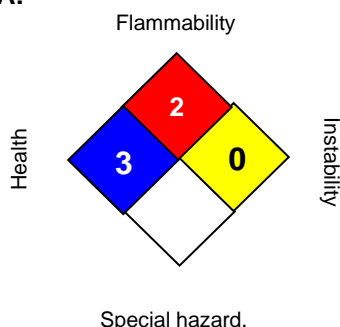
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### Further Information

#### NFPA:



#### HMIS III:

<b>HEALTH</b>	<b>3</b>
<b>FLAMMABILITY</b>	<b>2</b>
<b>PHYSICAL HAZARD</b>	<b>B</b>

0 = not significant, 1 =Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

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