

---

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

---

**1.1 PRODUCT IDENTIFIER**

Product Name: Enduramark Blü Residue Remover  
Product Code: BLU

**1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST**

Cleaner Used For Removing Residue from CO<sub>2</sub> Lasered, Powder-Coated Materials; Industrial Use Only

**1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET**

MANUFACTURED BY: VV Materials, LLC (DBA: Enduramark)  
DIVISION: Material Science  
ADDRESS: 14101 W. Hwy 290 STE 1800  
Austin, TX 78737

**1.4 EMERGENCY TELEPHONE NUMBER**

CHEMTREC PHONE: 800-424-9300  
PRODUCT INFORMATION: 512-236-6424

**CAS No:** Mixture

**Date of Preparation** 9/1/2017

---

**SECTION 2: HAZARDS IDENTIFICATION**

---

**2.1 Classification of the substance or mixture**

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Eye irritation (Category 1A)  
Serious Eye Damage (Category 1)

**2.2 GHS Label elements, including precautionary statements**



**Signal Word- Danger**

**Hazard statement(s)**

H314 Causes severe skin burns and eye damage

**Precautionary statement(s)**

P202 Do not handle until all safety precautions have been read and understood.  
P264 Wash skin thoroughly after handling.  
P280 Wear protective gloves/ eye protection/ face protection.

**Response:**

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P304 + P340 + P310 IF INHALED: Remove victim to fresh air and keep at rest in a position 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/doctor.  
P363 Wash contaminated clothing before reuse.

**Disposal:** Dispose of contents/container in accordance with local regulation.

**2.3 Hazards not otherwise classified (HNOC) or not covered by GHS – none**

---

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

---

Component	CAS #	Concentration
2-ethoxyethanol	111-76-2	>=1 - <25%

**SAFETY DATA SHEET**  
Revision date: 03/13/2020

Potassium Carbonate	584-08-7	>=1 - <5%
Proprietary Surfactant	-	>=1 - <25%

Specific chemical identities and concentrations are being withheld as a trade secret (29 CFR 1910.1200)

---

**SECTION 4: FIRST AID MEASURES**

---

**4.1 Description of first aid measures**

**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled**

If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.

**In case of skin contact**

Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.

**In case of eye contact**

Continue rinsing eyes during transport to hospital. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Small amounts splashed into eyes can cause irreversible tissue damage and blindness.

**If swallowed**

Keep respiratory tract clear. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

---

**SECTION 5: FIRE-FIGHTING MEASURES**

---

**5.1 Extinguishing media**

**Suitable extinguishing media**

Water spray jet Carbon dioxide (CO2) Alcohol-resistant foam Dry chemical

**5.2 Special hazards arising from the substance or mixture**

No data available

**5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**5.4 Further information**

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

---

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

---

**6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment.

**6.2 Environmental precautions**

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

**6.3 Methods and materials for containment and cleaning up**

Neutralise with acid. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

---

**SECTION 7: HANDLING AND STORAGE**

---

**7.1 Precautions for safe handling**

Do not breathe vapours/dust. Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.

**7.2 Conditions for safe storage, including any incompatibilities** Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

**7.3 Specific End Use** Apart from the uses mentioned in section 1 no other specific uses are stipulated.

---

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

---

**8.1 Control Parameters**

Component	Value	Control Parameters	Basis
2-butoxyethanol	TWA	20 ppm	ACGIH
	TWA	5 ppm	NIOSH REL
	TWA	50 ppm	OSHA Z-1
	TWA	25 ppm	OSHA P0
	PEL	20 ppm	CAL PEL

**8.2 Exposure Controls**

**Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Personal protective equipment**

**Eye/face protection:** Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Full contact**

Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

**Splash contact**

Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

**Body Protection:** Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure:** Prevent further leakage or spillage if safe to do so.

---

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

---

**9.1 Information on basic physical and chemical properties**

a) Appearance	liquid
b) Odor	slight, characteristic
c) Odor Threshold	No data available
d) pH	12.5-13
e) Melting point/freezing point	No data available
f) Initial boiling point	No data available
g) Flash point	No data available
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or exposure limits	No data available
k) Vapour pressure	No data available
l) Vapour density	No data available
m) Relative density	No data available
n) Water solubility 1 g/l at 20 °C (68 °F)	No data available
o) Partition coefficient: noctanol/water	No data available
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

---

**SECTION 10: STABILITY AND REACTIVITY**

---

**10.1 Reactivity**

Stable

**10.2 Chemical stability**

Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**

No data available

**10.4 Conditions to avoid**

No data available

**10.5 Incompatible materials**

Strong oxidizing agents, Strong acids

**10.6 Hazardous decomposition products**

Carbon Dioxide, Carbon Monoxide, Sulphur Oxides

---

**SECTION 11: TOXICOLOGICAL INFORMATION**

---

**TOXICOLOGICAL INFORMATION:**

**Acute oral toxicity**

Acute toxicity estimate : > 5,000 mg/kg

**Skin corrosion/irritation**

Extremelt corrosive and destructive to tissue

**Serious eye damage/eye irritation**

May cause irreversible eye damage

**Respiratory or skin sensitisation**

No Data Available

**Germ cell mutagenicity**

No Data Available

**Carcinogenicity**

No Data Available

**Reproductive toxicity**

No data available

**Specific target organ toxicity - single exposure**

May cause respiratory irritation.

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

---

**SECTION 12: ECOLOGICAL INFORMATION**

---

**12.1 EcoToxicity**

No Data Available

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

No Data Available

**SAFETY DATA SHEET**  
Revision date: 03/13/2020

**12.6 Other adverse effects**  
No data available

---

**SECTION 13: DISPOSAL CONSIDERATIONS**

---

**WASTE DISPOSAL METHOD:** Dispose in accordance with Federal, State and Local regulations.

---

**SECTION 14: TRANSPORT INFORMATION**

---

**14. TRANSPORT INFORMATION**

**DOT (US)**

UN Number:1171 Class:3 Packing Group:III  
Proper shipping name:Ethylene glycol monoethyl ether  
Reportable Quantity (RQ) 1000lbs

**IMDG**

UN Number:1171 Class:3 Packing Group:III EMS-No:F-E, S-D  
Proper shipping name:Ethylene glycol monoethyl ether

**IATA**

UN Number:1171 Class:3 Packing Group:III  
Proper shipping name:Ethylene glycol monoethyl ether

---

**SECTION 15: REGULATORY INFORMATION**

---

**SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 304 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 304.

**SARA 311/312 Hazards**

Skin corrosion or irritation  
Serious eye damage or eye irritation

**SARA 313 Components**

The following components are subject to reporting levels established by SARA Title III, Section 313: 2-butoxyethanol CAS 111-76-2 0.4128%.

**California Prop. 65 Components**

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

---

Copyright 2020 VV Materials, LLC. License granted to make unlimited paper copies for internal use only.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. VV Materials, LLC, and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.