

# SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: QUANTUM BRUSHING REDUCER Product Code: SR-95

Trade Name: QUANTUM BRUSHING REDUCER

### MANUFACTURER:

Engineered Marine Coatings, INC

**EMERGENCY PHONE:** 1-800-255-3924 (CHEMTEL)

**INFORMATION PHONE:** 1-855-54GENIUS

### MANUFACTURING ADDRESS:

4120 Hyde Park Blvd.  
Niagara Falls, NY 14305

### CORPORATE ADDRESS:

PO Box 921  
Isle of Palms, SC 29451

Product Use: Solvent Based Paint Reducer  
Not recommended for: Water Based Paints

## 2. HAZARD(S) IDENTIFICATION

### GHS Ratings:

Flammable liquid	3	Flash point $\geq 23^{\circ}\text{C}$ and $\leq 60^{\circ}\text{C}$ (140°F)
Inhalation Toxicity	Acute Tox. 3	Gases $>500$ and $\leq 2500$ ppm, Vapors $>2$ and $\leq 10$ mg/l, Dusts & mists $>0.5$ and $\leq 1$ mg/l
Skin corrosive	2	Reversible adverse effects in dermal tissue, Draize score: $\geq 2.3$ < 4.0 or persistent inflammation
Eye corrosive	2A	Eye irritant: Subcategory 2A, Reversible in 21 days
Carcinogen	2	Limited evidence of human or animal carcinogenicity
Aspiration hazard	1	Aspiration Toxicity Category 1: Known (regarded)- human evidence - hydrocarbons with kinematic viscosity $\geq 20.5$ mm <sup>2</sup> /s at 40° C.

### GHS Hazards

H226	Flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H319	Causes serious eye irritation
H331	Toxic if inhaled
H351	Suspected of causing cancer

### GHS Precautions

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P210	Keep away from heat/sparks/open flames/hot surfaces - No smoking
P233	Keep container tightly closed
P240	Ground/bond container and receiving equipment
P241	Use explosion-proof electrical/ventilating/light/.../equipment
P242	Use only non-sparking tools
P243	Take precautionary measures against static discharge
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P264	Wash hands thoroughly after handling

P271	Use only outdoors or in a well-ventilated area
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required
P311	Call a POISON CENTER or doctor/physician
P321	Specific treatment (see precautionary statements on this label)
P331	Do NOT induce vomiting
P362	Take off contaminated clothing and wash before reuse
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove victim 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
P308+P313	IF exposed or concerned: Get medical advice/attention.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P405	Store locked up
P403+P233	Store in a well ventilated place. Keep container tightly closed
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to an approved waste disposal plant.

Signal Word: Danger



### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS number	Weight Concentration %
Ethyl-3-Ethoxy-Propionate	763-69-9	50.00% - 60.00%
Solvent Naphtha Heavy Aromatic	64742-94-5	40.00% - 50.00%
Naphthalene	91-20-3	1.00% - 5.00%
Cumene	98-82-8	0.10% - 1.00%

### 4. FIRST AID MEASURES

#### INHALATION:

Move to an area free from risk of further exposure. Administer oxygen or artificial respiration as needed. Obtain medical attention. Asthmatic-type systems may develop and may be immediate or delayed up to several hours. Treatment is essentially symptomatic. Consult a physician.

#### EYES:

Flush with clean, lukewarm water (low pressure) for at least 15 minutes, while lifting eyelids. Refer individual to physician or ophthalmologist for immediate follow-up.

#### SKIN:

First aid for skin: Remove contaminated clothing immediately. Wash affected areas thoroughly with soap and

water. Wash contaminated clothing thoroughly before reuse. For severe exposures, get under safety shower after removing clothing, then get medical attention. Seek medical attention if irritation develops or persists.

**INGESTION:**

DO NOT INDUCE VOMITING. Give 1 to 2 cups of mil or water to drink. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON. Consult physician immediately.

**5. FIRE-FIGHTING MEASURES**

Flash Point: 30 C (86 F)

LEL: 1.00

UEL: 6.00

**EXTINGUISHING MEDIA:** Use water spray to cool fire exposed surfaces and to protect personnel. Isolate "fuel" supply from fire. Use foam, dry chemical, carbon dioxide, or water spray as last option. Avoid spraying water directly into storage containers due to the danger of boilover.

**HAZARDOUS COMBUSTION PRODUCTS:** Fires involving this product may release fumes, smoke, carbon dioxide, carbon monoxide, and irritating vapors.

**FIRE FIGHTING INSTRUCTIONS:** Wear self-contained breathing apparatus and protective clothing. Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting fire. Vapors may cause a flash fire or ignite explosively. Either the liquid or vapor may settle in low areas or travel some distance along the ground or surface to ignition sources where they may ignite or explode.

**6. ACCIDENTAL RELEASE MEASURES**

**SMALL SPILL:**

Eliminate all ignition sources. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.

**LARGE SPILL:**

Evacuate all non-essential personnel. Remove all sources of ignition. Ventilate the area. Equip employees with appropriate protection equipment. Dike around spilled material. Cover spill with inert absorbent material and shovel with non-sparking tools into container. Remove containers to a safe area and seal. Waste material must be disposed of in accordance with federal, state, and local environmental regulatory controls.

**7. HANDLING AND STORAGE**

**HANDLING:** Ground lines and equipment during transfer to reduce the possibility of static spark-initiated fire or explosion. Use non-sparking tools. Do not cut, grind, drill, weld, or reuse containers unless adequate precautions are taken against these hazards. Do not eat, drink, or smoke in areas of use or storage.

**STORAGE:** Protect against physical damage. Store in a cool dry place. Outside or detached storage preferred. Inside storage should be in a standard flammable liquid storage room or cabinet. All equipment should be grounded and bonded to reduce static electricity hazard. Use non-sparking tools. Do not reuse empty product container for any purpose.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Ethyl-3-Ethoxy-Propionate 763-69-9	OSHA PEL Not Available	ACGIH TLV Not Available	Not Established

Solvent Naphtha Heavy Aromatic 64742-94-5	TWA 400 mg/m3 100 ppm	TWA - 100 ppm	Not Established
Naphthalene 91-20-3	The OSHA TWA, DFG MAK, HSE TWA, and the ACGIH TWA value is 10 ppm (50 mg/m3) and ACGIH STEL value is 15 ppm (75 mg/m3).	The OSHA TWA, DFG MAK, HSE TWA, and the ACGIH TWA value is 10 ppm (50 mg/m3) and ACGIH STEL value is 15 ppm (75 mg/m3).	NIOSH recommends the same TWA and a 15-minute STEL of 15 ppm. The NIOSH IDLH level is 250 ppm.
Cumene 98-82-8	The OSHA PEL 8-hour TWA and ACGIH recommended TLV 8-hour TWA is 50 ppm (245 mg/m3).	The OSHA PEL 8-hour TWA and ACGIH recommended TLV 8-hour TWA is 50 ppm (245 mg/m3).	Not Established

Good general ventilation (typically 10 air changes per hour) should be used to keep vapor levels below the limits in Section 2 and lower explosive limit in Section 5. Ventilation rates should be matched to conditions. Use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. Provide readily accessible eye wash stations and safety showers. Wash at the end of each workshift and before eating, smoking, or using the toilet. Promptly remove clothing that becomes contaminated.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

This mixture typically exhibits the following properties under normal circumstances:

<p><b>Appearance:</b> Liquid</p> <p><b>Vapor Pressure:</b> 2.3 hPa at 20C</p> <p><b>Vapor Density:</b> 5.0</p> <p><b>Specific Gravity:</b> 0.92</p> <p><b>Freezing point:</b> No Data</p> <p><b>Boiling range:</b> No Data</p> <p><b>Evaporation rate:</b> No Data</p> <p><b>Explosive Limits:</b> 1% - 6%</p> <p><b>Autoignition temperature:</b> No Data</p> <p><b>Coating VOC (lbs/gal)</b> 7.70</p>	<p><b>Odor:</b> Solvent</p> <p><b>Odor threshold:</b> No Data</p> <p><b>pH:</b> No Data</p> <p><b>Melting point:</b> No Data</p> <p><b>Solubility:</b> No Data</p> <p><b>Flash point:</b> 86°F,30°C</p> <p><b>Flammability:</b> Flammable Liquid, Class 2</p> <p><b>Partition coefficient (n-octanol/water):</b> No Data</p> <p><b>Decomposition temperature:</b> No Data</p>
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## 10. REACTIVITY AND STABILITY

STABLE

### Incompatibility:

Acids, bases.  
Strong oxidizing agents

### Hazardous Decomposition:

May form: carbon dioxide and carbon monoxide  
Hazardous polymerization will not occur.

## 11. TOXICOLOGICAL INFORMATION

### Mixture Toxicity

Inhalation Toxicity LC50: 5mg/L

**Component Toxicity**

763-69-9	Ethyl-3-Ethoxy-Propionate Oral LD50: 5,000 mg/kg (RAT) Dermal LD50: 4,080 mg/kg (RABBIT) Inhalation LC50: 998 ppm (RAT)
91-20-3	Naphthalene Oral LD50: 490 mg/kg (RAT) Inhalation LC50: 340 mg/m3 (RAT)

**ROUTES OF ENTRY:**

Inhalation      Skin Contact      Eye Contact      Ingestion

Exposure to this material may affect the following organs:

Blood    Eyes      Kidneys    Liver      Central Nervous System      Skin

**Effects of Overexposure**

Short Term Exposure

Irritates the eyes, skin and respiratory tract. High levels cause headache, fatigue, confusion, excitement, malaise, nausea, and vomiting. Irritates the eyes, skin and respiratory tract. Skin contact may cause a burning sensation and/or rash. Higher levels can cause dizziness, lightheadedness, headaches, unconsciousness, narcosis, coma. Levels of 4,000 ppm may cause unconsciousness. The LD50 oral-rat is 1,400 mg/kg (slightly toxic).

Long Term Exposure

Repeated exposure or ingestion may cause clouding of the eye (cataract). Inhalation of levels above 10 ppm may cause headaches, nausea, vomiting and a feeling of general discomfort. Chronic skin problems are rare, except in cases of hypersensitivity. May cause skin allergy, kidney and liver damage. May damage the red blood cells causing anemia. Drying and cracking of the skin. May cause lung, liver, and kidney damage. Although cumene has not been adequately tested to determine whether brain or nerve damage could occur with repeated exposure, many solvents and other petroleum-based chemicals have been shown to cause such damage.

The following ingredients are listed as possible carcinogens:

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
91-20-3	Naphthalene	1 to 5%	Naphthalene:
98-82-8	Cumene	.1 to 1.0%	Cumene:

**12. ECOLOGICAL INFORMATION**

This section will be updated as ecological reviews are complete.

**Component Ecotoxicity**

**13. DISPOSAL CONSIDERATIONS**

Waste material must be disposed of in accordance with all federal, state, and local environmental regulatory controls. Chemical additions, processing, or otherwise altering this material may make the waste management information presented in this SDS incomplete, inaccurate, or otherwise inappropriate.

**14. TRANSPORT**

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
DOT	PAINT RELATED MATERIAL	1263	III	3

**15. REGULATORY INFORMATION**

The regulatory information provided is not meant to be comprehensive. Other federal, state, and local regulation

applies to this material.

Country

Regulation

All Components Listed

EU Risk Phrases

Safety Phrase

- None

**16. OTHER INFORMATION**

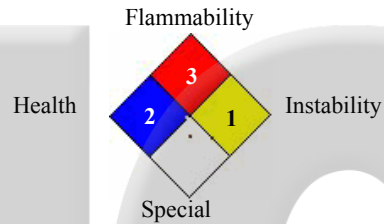
**Hazardous Material Information System (HMIS)**

HEALTH	<input type="checkbox"/>	2
FLAMMABILITY	<input type="checkbox"/>	3
PHYSICAL HAZARD	<input type="checkbox"/>	1
PERSONAL PROTECTION	<input checked="" type="checkbox"/>	X

**HMIS & NFPA Hazard Rating Legend**

\* = Chronic Health Hazard  
0 = INSIGNIFICANT  
1 = SLIGHT  
2 = MODERATE  
3 = HIGH

**National Fire Protection Association (NFPA)**



The information set forth above is based on information which Engineered Marine Coatings, Inc. believes to be accurate. No warranty, expressed or implied, is intended. The information is provided solely for your information and consideration and EMC assumes no legal responsibility for its use or reliance thereon.

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Reviewer Revision

ENGINEERED MARINE COATINGS