

MATERIAL SAFETY DATA SHEET

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

TUFF-GARD PART C3

COMPANY IDENTIFICATION

Tuff-Gard Seamless Membrane Systems Inc.
1766-A Midland Avenue,
Scarborough, ON M1P 3C2

EMERGENCY TELEPHONE NUMBERS

Health (416) 410-9155
Transportation (416) 410-9155

PRODUCT INFORMATION: MSDS Requests (416) 410-9155
Environmental, Safety & Health Info: (416) 410-9155
Product Information: (416) 410-9155

PRODUCT USE: Addition to Tuff-Gard Part A to conversion for trowel grade.

COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	CAS NUMBER	CONCENTRATION (% by weight)
Proprietary Ingredient	9016-45-9	1 - 5
Ethanol	64-17-5	1 - 5

HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

- Not considered as hazardous
- Amber Liquid, Slight odor

POTENTIAL HEALTH EFFECTS

EYE: Slight/mild irritant
SKIN CONTACT: Repeated or prolonged skin contact may result in mild irritation.
INHALATION: Vapor may be irritant to the respiratory tract.
INGESTION: Ingestion may cause irritation of the gastrointestinal tract.

FIRST AID MEASURES

EYE: Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Obtain immediate medical attention.
SKIN Contact: Wash skin with soap and water. If symptoms develop, obtain medical attention.

INHALATION: Remove to fresh air. Get medical attention if irritation persists.
INGESTION: DO NOT induce vomiting. If individual is conscious, give milk or water to dilute stomach contents. Keep warm and quiet. Get prompt attention.

FIRE FIGHTING MEASURES

AUTOIGNITION: Not available
FLASH POINT: Not applicable
EXTINGUISHING MEDIA: Not applicable
SPECIAL FIREFIGHTING PROCEDURES: No special procedures are required
FIRE & EXPLOSION HAZARDS: Non-combustible
HAZARDOUS COMBUSTION PRODUCTS: No hazardous decomposition products known
LOWER EXPLOSION LIMIT (%): Not applicable
UPPER EXPLOSION LIMIT (%): Not applicable

ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK PROCEDURES: Absorb spillages onto sand, earth or any suitable absorbent material. Sweep up and shovel into waste drums. Wash spillage area with water. Washings must be prevented from entering surface water drains. Disposal should be in accordance with local, provincial or national legislation.

For safety and environmental precautions, please review entire Material Safety Data Sheet for necessary information.

HANDLING AND STORAGE

STORAGE TEMPERATURE: 40 - 100 °F
HANDLING/STORAGE: Protect from freezing.

EXPOSURE CONTROLS/PERSONAL PROTECTION

COMPONENT	EXPOSURE LIMITS <u>ACGIH</u>	<u>OSHA</u>	MFG WORKING STANDARD
Ethanol	1000 ppm TWA	1000 ppm TWA 1900 mg/m ³ TWA	

VENTILATION REQUIREMENTS: Local.
EYE PROTECTION REQUIREMENTS: Wear safety glasses with side shields.
GLOVE REQUIREMENTS: Wear protective equipment to comply with good occupational hygiene practice. Impervious neoprene or rubber gloves are recommended.
CLOTHING REQUIREMENTS: Protective clothing is normally not necessary for foreseeable conditions of use.
CHANGE/REMOVAL OF CLOTHING: Not normally required.

Prepared according to the OSHA Hazard Communication Standard (29CFR 191 0.1200) and the ANSI MSDS Standard (Z400. 1)
Rev. 13/07/16

WASH REQUIREMENTS:

Wash before eating, drinking, or using toilet facilities.

RESPIRATOR REQUIREMENTS:

None required under normal handling conditions. Use NIOSH approved respirator if vapor or mist levels are irritation.

PHYSICAL AND CHEMICAL PROPERTIES

PURE SUBSTANCE OR MIXTURE:	Mixture
PHYSICAL FORM:	Liquid
COLOR:	Amber
ODOR:	Slight
ODOR THRESHOLD:	Not available
PH AS IS:	Approximately 10
pH IN (1%) SOLUTION:	Not Applicable
OXIDIZING PROPERTIES:	Not Applicable
BOILING POINT:	> 212 °F (100° C)
MEL TING/FREEZING POINT:	Approximately 32°F (0°C)
SOLUBILITY IN WATER:	Miscible
PARTITION COEFFICIENT (n-octanol/water):	Not applicable
BULK DENSITY:	8.66 lb/gal
EVAPORATION RATE:	1 (Water = 1)
VAPOR PRESSURE (mmHg):	17.5 @ 20°C
VAPOR DENSITY (air = 1):	> 1.0
VOLATILES:	None
VOLATILE ORGANIC COMPOUNDS:	Not available
AUTOIGNITION:	Not available
FLASH POINT:	Not applicable

STABILITY AND REACTIVITY

STABILITY:	Stable
MATERIALS TO AVOID:	Strong Oxidizers
CONDITIONS TO AVOID:	Protect from temperatures below 40° F.
HAZARDOUS POLYMERIZATION CONDITIONS:	Hazardous polymerization will not occur.

TOXICOLOGICAL INFORMATION

ROUTE OF ENTRY: Eye Contact; Skin Contact

CARCINOGEN	<u>IARC (group)</u>	<u>NTP</u>	<u>OSHA Substance Specific Regulation</u>
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COMPONENT:

There is no evidence that this product poses a carcinogenic risk under normal conditions of handling and use.

PRODUCT TOXICOLOGY:

Prepared according to the OSHA Hazard Communication Standard (29CFR 191 0.1200) and the ANSI MSDS Standard (Z400. 1)
Rev. 13/07/16

ACUTE (SHORT TERM) EFFECTS OF EXPOSURE
EFFECTS OF ACUTE EXPOSURE:

Unlikely to cause harmful effects under normal conditions of handling and use.

CHRONIC (LONG TERM) EFFECTS OF EXPOSURE
TARGET ORGANS

Not applicable

COMPONENT
Ethanol

ORAL TOXICITY
Oral LD50: Dog. 5000 mg/kg
Oral LD50: Mouse 3450 mg/kg
Oral LD50: Rat 7060 mg/kg

NOTES ON ORAL TOXICITY
Moderately toxic.

COMPONENT
Ethanol

DERMAL TOXICITY
Dermal LD50: Rat >
20000 mg/kg

NOTES ON DERMAL TOXICITY
Repeated or prolonged skin contact may result in moderate irritation. Repeated contact may cause skin dryness, cracking and dermatitis.

COMPONENT

INHALATION TOXICITY
Inhalation LC50 (10hr): Rat
20000 ppm

NOTES ON INHALATION TOXICITY
The vapour has anesthetic properties and when inhaled at concentration above the occupational exposure limit, it may cause respiratory irritation, headache, fatigue, dizziness and incoordination.

COMPONENT
Ethanol

NOTES ON EYE IRRITATION
Will cause eye irritation. May cause permanent damage if eye is not immediately irrigated.

ECOLOGICAL INFORMATION

MOBILITY: The product is soluble in water
POTENTIAL TO BIOACCUMULATE: Unknown
AQUATIC TOXICITY: None established

DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS: Disposal should be in accordance with local, state or national legislation.
EMPTY CONTAINER WARNINGS: Empty containers may contain product residue; follow MSDS and label warnings even after they have been emptied.

TRANSPORTATION INFORMATION

Prepared according to the OSHA Hazard Communication Standard (29CFR 191 0.1200) and the ANSI MSDS Standard (Z400. 1)
Rev. 13/07/16

This section provided for general information only. The shipping description below may not represent requirements for all modes of transportation, packaging, shipping methods or locations outside of the United States.

FOR MORE COMPLETE TRANSPORTATION REGULATORY INFORMATION, PLEASE REFER TO THE SHIPPING DOCUMENTS ACCOMPANYING THE SHIPMENT OF THIS PRODUCT.

DOT CLASSIFICATION:

PROPER SHIPPING NAME: NOT REGULATED

The information provided herein may not include the impact of additional regulatory requirements (eg, for materials meeting the definition of a hazardous waste under RCRA, hazardous substances under CERCLA, and/of exemptions under regulations applicable to transport of this material.

REGULATORY INFORMATION

TSCA:	This product is manufactures in compliance with all provisions of the Toxic Substances Control Act, 15 U.S.C. 2601 et Seq.
Canadian Domestic Substance list (DSL):	Not on Inventory
China (IECSC)	This material is not on the IECSC Inventory
Japan (ENCS)	This material is not on the ENCS Inventory
Australia (AICS)	This material is not on the AICS Inventory
Korea (KECI)	This material is not on the KECI Inventory
Philippines (PICCS)	This material is not on the PICCS Inventory
EINECS	All components of this product are listed in EINECS or ELINCS, or are otherwise exempt from EU notification requirements.

SARA - SECTION 313 (Superfund Amendments and Reauthorization Act of 1986 - 40CFR 372)

CAS NUMBER	CONCENTRATION (% by weight)
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Contains no substances at or above the reporting threshold under Section 313.

CALIFORNIA PROPOSITION 65

WARNING: This product contains the following chemicals that are known to the State of California to cause cancer, birth defects or other reproductive harm.

Unless a concentration is specified in Section 2 of the MSDS, the below chemicals are present in trace amounts.

COMPONENT	CAS NUMBER
Ethyl alcohol	64-17-5
Ethyl acrylate	140-88-5

OTHER INFORMATION

Prepared according to the OSHA Hazard Communication Standard (29CPR 191 0.1200) and the ANSI MSDS Standard (Z400. 1)
Rev. 13/07/16

HMIS® Hazard Ratings

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDS's by OSHA's 29 CFR 1910.1200, we choose to provide them as a service to our customers using HMIS®. These ratings are to be used only with a fully implemented HMIS® program. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

NPCA recommends that employers must determine appropriate **PPE** for the actual conditions under which this product is used in their workplace. For information on **PPE** codes, consult the HMIS® Implementation Manual.

When two ratings are provided for Health, the first represents the material 'as supplies', and the second represents the material 'in use'.

• = chronic health hazard

HMIS® is a registered trademark of the National Paint and Coatings Association (NPCA).

Health

1

Flammability

0

Reactivity

0

MSDS DATE: 16 July 2013

FOR INFORMATION CONTACT:

Tuff-Gard Seamless Membrane Systems Inc.
1766-A Midland Avenue,
Scarborough, ON M1P 3C2
Tel. (416) 410-9155

ADDITIONAL INFORMATION: The above information given and the recommendations made herein apply to our products(s) alone and are not combined with other product(s). Such are based on our research and on data from other reliable sources and are believed to be accurate. No guaranty of accuracy is made. We do not assume any responsibility for the result of its use. This information is furnished upon condition that the persons receiving it shall make their own determination of the suitability of the material for their particular purposes.