

Revision Date: 08/29/2016

# **SAFETY DATA SHEET**

## 1. Identification

Material name: TUFF-N-DRI® XTS Waterproofing

Material: TBS361A

Recommended use and restriction on use

Recommended use: Coatings Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information

Tremco Barrier Solutions 6402 E. MAIN STREET REYNOLDSBURG OH 43068 US

Contact person:EH&S DepartmentTelephone:216-292-5000

**Emergency telephone number:** 1-800-424-9300 (US); 1-613-996-6666 (Canada)

## 2. Hazard(s) identification

#### **Hazard Classification**

#### **Health Hazards**

Germ Cell Mutagenicity	Category 1B
Carcinogenicity	Category 1B

#### **Unknown toxicity - Health**

Acute toxicity, oral	36.31 %
Acute toxicity, dermal	36.61 %
Acute toxicity, inhalation, vapor	99.93 %
Acute toxicity, inhalation, dust or mist	99.93 %

#### **Environmental Hazards**

Acute hazards to the aquatic	Category 3
environment	

#### **Unknown toxicity - Environment**

Acute hazards to the aquatic	99.44 %
environment	
Chronic hazards to the aquatic	100 %
environment	

#### **Label Elements**

#### **Hazard Symbol:**





Revision Date: 08/29/2016

Signal Word: Danger

**Hazard Statement:** May cause genetic defects.

May cause cancer. Harmful to aquatic life.

Precautionary Statement:

**Prevention:** Obtain special instructions before use. Do not handle until all safety

precautions have been read and understood. Use personal protective

equipment as required.

**Response:** If exposed or concerned: Get medical advice/attention.

Storage: Store locked up.

**Disposal:** Dispose of contents/container to an appropriate treatment and disposal

facility in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Other hazards which do not result in GHS classification:

None.

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical Identity	CAS number	Content in percent (%)*
Asphalt	8052-42-4	40 - 70%
**	**	5 - 10%
Stoddard solvent (Mineral Spirits)	8052-41-3	3 - 7%
1,2,4-Trimethylbenzene	95-63-6	0.1 - 1%
Sodium hydroxide	1310-73-2	0.1 - 1%
Ammonium hydroxide	1336-21-6	0.1 - 1%

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

**Trade secret information:** \*\* A specific chemical identity and/or percentage of composition has been

withheld as a trade secret.

#### 4. First-aid measures

Ingestion: Call a POISON CENTER/doctor/.../if you feel unwell. Rinse mouth.

**Inhalation:** Move to fresh air.

**Skin Contact:** Wash skin thoroughly with soap and water. If skin irritation occurs: Get

medical advice/attention.

**Eye contact:** Any material that contacts the eye should be washed out immediately with

water. If easy to do, remove contact lenses. If eye irritation persists: Get

medical advice/attention.



Revision Date: 08/29/2016

#### Most important symptoms/effects, acute and delayed

**Symptoms:** May cause skin and eye irritation.

Indication of immediate medical attention and special treatment needed

Treatment: Symptoms may be delayed.

## 5. Fire-fighting measures

**General Fire Hazards:** No unusual fire or explosion hazards noted.

## Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media:

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical:

During fire, gases hazardous to health may be formed.

#### Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

No data available.

Special protective equipment

for fire-fighters:

Self-contained breathing apparatus and full protective clothing must be

worn in case of fire.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

No data available.

Methods and material for containment and cleaning

up:

Dam and absorb spillages with sand, earth or other non-combustible material. Collect spillage in containers, seal securely and deliver for

disposal according to local regulations.

In the event of a spill or accidental release, notify relevant authorities in **Notification Procedures:** 

accordance with all applicable regulations.

**Environmental Precautions:** Do not contaminate water sources or sewer. Prevent further leakage or

spillage if safe to do so. Avoid release to the environment.



Revision Date: 08/29/2016

## 7. Handling and storage

Precautions for safe handling: Do not handle until all safety precautions have been read and understood.

Obtain special instructions before use. Use personal protective equipment as required. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage,

including any incompatibilities:

Store locked up.

# 8. Exposure controls/personal protection

## **Control Parameters**

Occupational Exposure Limits

Chemical Identity	type	Exposure Limit Values		Source
Asphalt - Inhalable fraction as benzene solubles	TWA	0.5 mg/m3		US. ACGIH Threshold Limit Values (2011)
**	TWA		0.0001 mg/m3	US. ACGIH Threshold Limit Values (2011)
Stoddard solvent (Mineral Spirits)	TWA	100 ppm		US. ACGIH Threshold Limit Values (2011)
	PEL	500 ppm	2,900 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
1,2,4-Trimethylbenzene	TWA	25 ppm		US. ACGIH Threshold Limit Values (2011)
	REL	25 ppm	125 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	TWA	25 ppm	125 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	25 ppm	125 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	AN ESL		25 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (07 2011)
	ST ESL		140 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	ST ESL		700 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	AN ESL		125 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (07 2011)
	TWA PEL	25 ppm	125 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (08 2010)
Sodium hydroxide	Ceiling		2 mg/m3	US. ACGIH Threshold Limit Values (2011)
_	PEL		2 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)



TREMCO.

Version: 1.1

Revision Date: 08/29/2016

				(02 2006)
Ammonium hydroxide	STEL	35 ppm		US. ACGIH Threshold Limit Values
				(2011)
	TWA	25 ppm		US. ACGIH Threshold Limit Values
				(2011)
	PEL	50 ppm	35 mg/m3	US. OSHA Table Z-1 Limits for Air
			_	Contaminants (29 CFR 1910.1000)
				(02 2006)

Chemical name	type	Exposure Limit Values	Source
Asphalt - Aerosol, inhalable as benzene solubles	TWA	0.5 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Asphalt - Inhalable fraction as benzene solubles	TWAEV	0.5 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Asphalt - Fume.	TWA	5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Natural Rubber Latex - Inhalable - total proteins	TWA	0.001 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011)
Natural Rubber Latex - Inhalable fraction as allergenic protein	TWAEV	0.0001 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Stoddard solvent (Mineral Spirits)	STEL	580 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	290 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)



Revision Date: 08/29/2016

Stoddard solvent (Mineral Spirits)	TWAEV	100 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Stoddard solvent (Mineral Spirits)	TWA	100 ppm	525 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
1,2,4-Trimethylbenzene	TWA	25 ppm	123 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009)
1,2,4-Trimethylbenzene	TWA	25 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
1,2,4-Trimethylbenzene	TWAEV	25 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
1,2,4-Trimethylbenzene	TWA	25 ppm	123 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)

Appropriate Engineering Controls

Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.

#### Individual protection measures, such as personal protective equipment

**General information:** Good general ventilation (typically 10 air changes per hour) should be used.

Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory and eye protection may be needed in special circumstances, such as poorly ventilated spaces, heating, evaporation of liquids from large surfaces, spraying of mists,

mechanical generation of dusts, drying of solids, etc.

**Eye/face protection:** Wear safety glasses with side shields (or goggles).

**Skin Protection** 

**Hand Protection:** Use suitable protective gloves if risk of skin contact.

Other: Wear suitable protective clothing.

**Respiratory Protection:** In case of inadequate ventilation use suitable respirator. Seek advice from

local supervisor.

**Hygiene measures:** Observe good industrial hygiene practices. Wash hands before breaks and

immediately after handling the product.

#### 9. Physical and chemical properties

#### **Appearance**

Physical state: liquid Form: liquid



Revision Date: 08/29/2016

Color: Brown
Odor: Slight odor

Odor threshold: No data available.

**pH:** 10 - 11.8

**Melting point/freezing point:**No data available.
Initial boiling point and boiling range:
100 °C 212 °F

Flash Point: > 100 °C > 212 °F(Pensky-Martens Closed Cup)

**Evaporation rate:** Slower than Ether

Flammability (solid, gas): No Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

No data available.

Vapor density: Vapors are heavier than air and may travel along the floor and

in the bottom of containers.

Relative density: 0.97

Solubility(ies)

Solubility in water: Dispersible

Solubility (other):

Partition coefficient (n-octanol/water):

Auto-ignition temperature:

Decomposition temperature:

Viscosity:

No data available.

No data available.

No data available.

No data available.

## 10. Stability and reactivity

**Reactivity:** No data available.

**Chemical Stability:** Material is stable under normal conditions.

Possibility of hazardous

reactions:

No data available.

**Conditions to avoid:** Avoid heat or contamination.

**Incompatible Materials:** Avoid contact with oxidizing agents (e.g. nitric acid, peroxides and

chromates).

**Hazardous Decomposition** 

**Products:** 

Thermal decomposition or combustion may liberate carbon oxides and

other toxic gases or vapors.

## 11. Toxicological information

### Information on likely routes of exposure

**Ingestion:** May be ingested by accident. Ingestion may cause irritation and malaise.



Revision Date: 08/29/2016

In high concentrations, vapors, fumes or mists may irritate nose, throat and

mucus membranes.

**Skin Contact:** May be harmful in contact with skin. Causes mild skin irritation.

**Eye contact:** Eye contact is possible and should be avoided.

## Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

**Product:** No data available.

**Dermal** 

**Product:** ATEmix: 2,365.16 mg/kg

Inhalation

**Product:** No data available.

Repeated dose toxicity

**Product:** No data available.

Skin Corrosion/Irritation

**Product:** No data available.

Specified substance(s):

Asphalt in vivo (Rabbit): Experimental result, Key study

1,2,4-Trimethylbenzene in vivo (Rabbit): Read-across from supporting substance (structural

analogue or surrogate), Key study

Sodium hydroxide in vivo (Rabbit): Experimental result, Weight of Evidence study

#### Serious Eye Damage/Eye Irritation

**Product:** No data available.



Revision Date: 08/29/2016

Specified substance(s):

Asphalt in vivo (Rabbit, 24 hrs): Not irritating

Stoddard solvent

(Mineral Spirits)

Irritating

1,2,4-Trimethylbenzene in vivo (Rabbit, 30 min): Not irritating

Sodium hydroxide in vivo (Rabbit, 1 d): 10% Sodium Hydroxide- Category 1; 0.5% Sodium

Hydroxide- Slightly irritating to eyes

Ammonium hydroxide Severely Irritating

Respiratory or Skin Sensitization

**Product:** No data available.

Carcinogenicity

**Product:** May cause cancer.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Asphalt Overall evaluation: Possibly carcinogenic to humans.

**US. National Toxicology Program (NTP) Report on Carcinogens:** 

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

**Germ Cell Mutagenicity** 

In vitro

**Product:** No data available.

In vivo

**Product:** No data available.

Reproductive toxicity

**Product:** No data available.

**Specific Target Organ Toxicity - Single Exposure** 

**Product:** No data available.

**Specific Target Organ Toxicity - Repeated Exposure** 

**Product:** No data available.

**Aspiration Hazard** 

**Product:** No data available.

Other effects: No data available.

9/15



Revision Date: 08/29/2016

#### 12. Ecological information

#### **Ecotoxicity:**

#### Acute hazards to the aquatic environment:

**Fish** 

**Product:** No data available.

Specified substance(s):

1,2,4-Trimethylbenzene LC 50 (Fathead minnow (Pimephales promelas), 96 h): 7.19 - 8.28 mg/l

Mortality

LC 50 (Various, 96 h): 3.41 mg/l QSAR QSAR, Supporting study

LC 50 (Oryzias latipes, 48 h): 18 mg/l Experimental result, Supporting study LC 50 (Oncorhynchus mykiss): 9.22 mg/l Not specified, Not specified LC 50 (Pimephales promelas, 96 h): 7.72 mg/l Experimental result, Key

study

Ammonium hydroxide LC 50 (Western mosquitofish (Gambusia affinis), 96 h): 15 mg/l Mortality

**Aquatic Invertebrates** 

**Product:** No data available.

Specified substance(s):

1,2,4-Trimethylbenzene LC 50 (Scud (Elasmopus pectinicrus), 24 h): 4.89 - 5.62 mg/l Mortality

LC 50 (Artemia sp., 24 h): 12 mg/l Experimental result, Supporting study LC 50 (Artemia sp., 48 h): 3.6 mg/l Experimental result, Supporting study LC 50 (Americamysis bahia, 96 h): +/- +/- 2 mg/l Not specified, Not specified LC 50 (Daphnia sp., 48 h): 2.446 mg/l QSAR QSAR, Supporting study

Ammonium hydroxide LC 50 (Water flea (Daphnia magna), 25 h): 60 mg/l Mortality

LC 50 (Water flea (Ceriodaphnia dubia), 48 h): > 0 - 10 mg/l Mortality

#### Chronic hazards to the aquatic environment:

Fish

**Product:** No data available.

Specified substance(s):

Asphalt NOAEL (Oncorhynchus mykiss, 28 d): >= 1,000 mg/l Read-across from

supporting substance (structural analogue or surrogate), Key study LL 50 (Oncorhynchus mykiss, 28 d): > 1,000 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study

**Aquatic Invertebrates** 

**Product:** No data available.

**Toxicity to Aquatic Plants** 

**Product:** No data available.

#### Persistence and Degradability



Revision Date: 08/29/2016

Biodegradation

**Product:** No data available.

**BOD/COD Ratio** 

**Product:** No data available.

**Bioaccumulative Potential** 

**Bioconcentration Factor (BCF)** 

**Product:** No data available.

Specified substance(s):

1,2,4-Trimethylbenzene Pimephales promelas, Bioconcentration Factor (BCF): 243 Aquatic sediment

QSAR, Key study

Cyprinus carpio, Bioconcentration Factor (BCF): 31 - 207 Aquatic sediment

Experimental result, Supporting study

Cyprinus carpio, Bioconcentration Factor (BCF): 33 - < 275 Aquatic

sediment Experimental result, Supporting study

Partition Coefficient n-octanol / water (log Kow)
Product:
No data available.

Specified substance(s):

Stoddard solvent (Mineral

Spirits)

Log Kow: 3.16 - 7.15

Mobility in Soil: No data available.

Other Adverse Effects: Harmful to aquatic organisms.

13. Disposal considerations

**Disposal instructions:** Dispose of waste at an appropriate treatment and disposal facility in

accordance with applicable laws and regulations, and product

characteristics at time of disposal.

**Contaminated Packaging:** No data available.

## 14. Transport information

TDG:

Not Regulated

CFR / DOT:

Not Regulated

IMDG:

Not Regulated



Revision Date: 08/29/2016

## 15. Regulatory information

#### **US Federal Regulations**

## TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

## US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

#### CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	Reportable quantity
Asphalt	100 lbs.
Sodium hydroxide	1000 lbs.
Ammonium hydroxide	1000 lbs.
Hydrogen sulfide	100 lbs.
Propylbenzene	100 lbs.
Xylene	100 lbs.
Cumene	5000 lbs.
Ethyl Acrylate	1000 lbs.

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

## **Hazard categories**

Delayed (Chronic) Health Hazard

#### **SARA 302 Extremely Hazardous Substance**

Reportable

Chemical IdentityquantityThreshold Planning QuantityHydrogen sulfide100 lbs.500 lbs.

## **SARA 304 Emergency Release Notification**

Chemical Identity	Reportable quantity
Asphalt	100 lbs.
Sodium hydroxide	1000 lbs.
Ammonium hydroxide	1000 lbs.
Hydrogen sulfide	100 lbs.
Propylbenzene	100 lbs.
Xylene	100 lbs.
Cumene	5000 lbs.
Ethyl Acrylate	1000 lbs.



Revision Date: 08/29/2016

#### SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Hydrogen sulfide	500lbs
Asphalt	500 lbs
Natural Rubber Latex	500 lbs
Stoddard solvent (Mineral	500 lbs
Spirits)	
1,2,4-Trimethylbenzene	500 lbs
Sodium hydroxide	500 lbs
Ammonium hydroxide	500 lbs

## SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

#### Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

Chemical Identity	Reportable quantity
11 1 10 1	40000 !!

Hydrogen sulfide 10000 lbs

#### **US State Regulations**

#### **US. California Proposition 65**

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

## US. New Jersey Worker and Community Right-to-Know Act

## **Chemical Identity**

Asphalt

Stoddard solvent (Mineral Spirits)

## US. Massachusetts RTK - Substance List

#### **Chemical Identity**

Asphalt

Stoddard solvent (Mineral Spirits)

Hydrogen sulfide

**Ethyl Acrylate** 

#### US. Pennsylvania RTK - Hazardous Substances

#### **Chemical Identity**

Asphalt

Stoddard solvent (Mineral Spirits)

#### **US. Rhode Island RTK**

No ingredient regulated by RI Right-to-Know Law present.

# Other Regulations:

Regulatory VOC (less water 70 g/l

and exempt solvent):

**VOC Method 310:** 5.09 %

#### **Inventory Status:**

Australia AICS:

One or more components in this product are



Revision Date: 08/29/2016

not listed on or exempt from the Inventory.

Canada DSL Inventory List:

One or more components in this product are

not listed on or exempt from the Inventory.

EINECS, ELINCS or NLP: One or more components in this product are

not listed on or exempt from the Inventory.

Japan (ENCS) List: One or more components in this product are

not listed on or exempt from the Inventory.

China Inv. Existing Chemical Substances:

One or more components in this product are

not listed on or exempt from the Inventory.

Korea Existing Chemicals Inv. (KECI): One or more components in this product are

not listed on or exempt from the Inventory.

Canada NDSL Inventory: One or more components in this product are

not listed on or exempt from the Inventory.

Philippines PICCS: One or more components in this product are

not listed on or exempt from the Inventory.

US TSCA Inventory:

One or more components in this product are

not listed on or exempt from the Inventory.

New Zealand Inventory of Chemicals:

One or more components in this product are

not listed on or exempt from the Inventory.

Japan ISHL Listing: One or more components in this product are

not listed on or exempt from the Inventory.

Japan Pharmacopoeia Listing: One or more components in this product are

not listed on or exempt from the Inventory.

#### 16.Other information, including date of preparation or last revision

**Revision Date:** 08/29/2016

Version #: 1.1

Further Information: No data available.

**Disclaimer:** For Industrial Use Only. Keep out of Reach of Children. The hazard

information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including

the safe use of the product under every foreseeable condition.



Revision Date: 08/29/2016

15/15 00000014192