

## 1. Identification of Substance:

Product Name: GreenTuff FR B Component

Product Use: Polyurea amine component

Field of Application: building and metal industry

Identified uses: Industrial/Professional use

.

**Company Details: Green Shield Products** 

Address:

40 Cypress Creek Parkway #338

Houston, Texas 77090

**Telephone:** 877-476-7453

24-Hr. Emergency Response: CHEMTREC (800) 424-9300

INTERNATIONAL: +1-(703) 527-3887

#### 2. Hazards Identification

## **GHS Ratings:**

Skin corrosive 2 Reversible adverse effects in dermal tissue, Draize score: >= 2.3 <

4.0 or persistent inflammation

Eye corrosive 1 Serious eye damage: Irreversible damage 21 days after exposure,

Draize score: Corneal opacity >= 3, Iritis > 1.5

Carcinogen 1A Known Human Carcinogen Based on human evidence

Reproductive toxin 1B Presumed, Based on experimental animals

Aquatic toxicity A1 Acute toxicity <= 1.00 mg/l

#### **GHS Hazards**

H315 Causes skin irritation

H318 Causes serious eye damage

H350 May cause cancer

H360 May damage fertility or the unborn child

H400 Very toxic to aquatic life

## **GHS Precautions**

P201 Obtain special instructions before use

P202 Do not handle until all safety precautions have been read and understood

P264 Wash hands thoroughly after handling P273 Avoid release to the environment

P280 Wear protective gloves/protective clothing/eye protection/face protection

P281 Use personal protective equipment as required

P310 Immediately call a POISON CENTER in case of overexposure.
P321 Specific treatment is urgent (see Section 4 First Aid measures)

P362 Take off contaminated clothing and wash before reuse

P391 Collect spillage

P302+P352 IF ON SKIN: Wash with soap and water







P305+P351 IF IN EYES: Rinse continuously with water for several minutes.

+P338 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

Store locked up P405

P501 Dispose of contents/container in accordance with

existing federal, state, and local environmental control laws

Signal Word: Danger





Skin: Harmful in contact with skin. Inhalation: Harmful if inhaled.

**Ingestion:** Not expected to be a route of exposure. Consult physician.

Chronic Effects: Possible harmful target organ effects.

# 3. Composition/information on ingredients:

Chemical Name	CAS number	Weight Concentration %
Propylene glycol diamine, 2-amino-, diether with Propylene *	9046-10-0	40% - 70%
Diethyltoluenediamine *	68479-98-1	10% - 30%
2-Propanol, 1-chloro-, phosphate (3:1) *	13674-84-5	10% - 30%

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

#### 4. First Aid Measures:

## **Description of first aid measures**

General advice Immediate medical attention is required.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses

and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Call a

physician immediately.

Skin contact Immediate medical attention is required. Wash off immediately with soap and plenty of

water while removing all contaminated clothes and shoes.

Inhalation Immediate medical attention is required. Remove to fresh air. If not breathing, give

artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth

resuscitation.







**Ingestion** Do NOT induce vomiting. Call a physician or poison control center immediately. Never

give anything by mouth to an unconscious person. Drink plenty of water.

**Self-protection of** Use personal protective equipment as required. Avoid contact with skin, eyes or

**first aider** clothing the first aider.

Most important symptoms and effects, both acute and delayed

**Symptoms** May cause redness and tearing of the eyes. Coughing and/ or wheezing. May cause

skin rritation. May cause allergic skin reaction.

Indication of any immediate medical attention and special treatment needed

**Note to physicians** Treat symptomatically.

# 5. Firefighting measures

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical, CO2, sand, earth, water spray or regular foam.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

#### Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

## **Explosion data**

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full **protective gear.** 

#### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

upwind ofspill/leak.

**Environmental precautions** 

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Prevent product from

entering drains.







#### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so. Cover powder spill with

plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later

disposal.

**Methods for cleaning up** Cover liquid spill with sand, earth or other non-combustible absorbent material.

Use personal protective equipment as required. Dam up. Take up mechanically,

placing in appropriate containers for disposal. Clean contaminated surface

thoroughly.

# 7. Handling and Storage

# **Precautions for safe handling**

Advice on safe handling Avoid contact with skin, eyes or clothing. Wash contaminated clothing before

reuse. Use personal protective equipment as required. Do not breathdust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place. Keep out of the

reach of children.

**Incompatible materials** Strong oxidizing agents. Strong acids. Strong bases.

# 8. Exposure Controls and Personal Protection:

#### **Control parameters**

**Exposure Guidelines** This product, as supplied, does not contain any hazardous materials with

occupational exposure limits established by the region specific regulatory

bodies.

#### **Appropriate engineering controls**

**Engineering Controls** Showers

Eyewash stations Ventilation systems.

# Individual protection measures, such as personal protective equipment

**Eye/face protection** Tight sealing safety goggles.

**Skin and body protection** Wear protective gloves and protective clothing.







**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA

approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respirator protection must be provided in accordance with current local regulations.

#### **General Hygiene Considerations**

When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly after hadling. Keep away from food, drink and animal feeding stuffs.

# 9. Physical and Chemical Properties:

## Information on basic physical and chemical properties

Physical state liquid Odor Slight Amine

Appearance viscous Odor threshold no information available

**Color** pigmented pigmented

<u>Property</u> <u>Values</u> <u>Remarks - Method</u>

pH 10-12

Melting point / freezing pointNo information availableBoiling point / boiling rangeNo information availableFlash point> 120 °C / 248 °FEvaporation rateNo information availableFlammability (solid, gas)No information available

Flammability Limit in Air

Upper flammability limit:No information availableLower flammability limit:No information availablepressureNo information available

Vapor pressureNo informVapor density>1Relative density1.0-1.1Water solubilitynegligible

Solubility in other solventsNo information availablePartition coefficientNo information availableAutoignition temperatureNo information availableDecomposition temperatureNo information available

Kinematic viscosity> 1000 mm2/sDynamic viscosity1000 mm2/sExplosive propertiesNot an explosiveOxidizing propertiesNot applicable





# SAFETY DATA SHEET

# **Safety Data**



Other InformationNo information availableSoftening pointNo information availableMolecular weightNo information availableVOC Content (%)No information availableDensityNo information availableBulk densityNo information available

# 10. Stability and Reactivity:

#### Reactivity

No data available

# **Chemical stability**

Stable under recommended storage conditions.

## **Possibility of Hazardous Reactions**

None under normal processing.

#### **Conditions to avoid**

Elevated Temperature. Incompatible materials.

#### Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

# **Hazardous Decomposition Products**

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

# 11. Toxicological Information:

#### Information on likely routes of exposure

## **Product Information**

**Inhalation** Irritating to respiratory system.

**Eye contact** Corrosive to the eyes and may cause severe damage including blindness.

**Skin contact** May cause burns. May cause sensitization by skin contact. Harmful in contact with skin.

**Ingestion** May be harmful if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Propylene glycol diamine, 2-amino-, diether with Propylene *	= 242 mg/kg ( Rat )	40% - 70%	
Diethyltoluenediamine *	= 472 mg/kg ( Rat ) = 485 mg/kg ( Rat )	= 700 mg/kg ( Rabbit ) -	
2-Propanol, 1-chloro-, phosphate (3:1) *	= 1500 mg/kg ( Rat )	= 1230 mg/kg ( Rabbit )	= 5 mg/L ( Rat ) 4 h





# SAFETY DATA SHEET

# **Safety Data**



# <u>Ilnformation on toxicological effects</u>

Symptoms May cause an allergic skin reaction. Causes skin burns. May cause

redness and tearing of the eyes. Coughing and/ or wheezing.

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

Corrosivity Risk of serious damage to eyes. Causes burns.

**Sensitization** May cause sensitization by skin contact.

Germ cell mutagenicity No information available.
Carcinogenicity No information available.
Reproductive toxicity No information available.

STOT-single exposure Target Organs. Respiratory system. Eyes. Skin.

STOT-repeated exposure Causes damage to organs through prolonged or repeated exposure.

Chronic toxicity

May cause adverse effects on the bone marrow and blood-forming

system. May cause adverse liver effects.

Target Organ Effects blood, Central nervous system, Eyes, kidney, liver, Respiratory system,

Skin, Urinary Tract.

**Aspiration hazard** No information available.

## **Numerical measures of toxicity - Product Information**

The following values are calculated based on chapter 3.1 of the GHS document.

ATEmix (oral) 324.00 mg/kg ATEmix (dermal) 490.00 mg/kg

# **12. Ecological Information:**

#### **Ecotoxicity**

Toxic to aquatic life with long lasting effects

65.07206 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

#### Persistence and degradability

No information available.

# **Bioaccumulation**

Chemical Name	Partition coefficient
2-Propanol, 1-chloro-, phosphate (3:1)	2.59

#### Other adverse effects

No information available.







# 13. Disposal considerations

Waste treatment methods

**Disposal of wastes**Disposal should be in accordance with applicable regional, national and local

laws and regulations.

**Contaminated packaging** Do not reuse container.

US EPA Waste Number D002

# **14. Transport Information**

#### **DOT**

UN/ID no UN3066
Proper shipping name Paint
Hazard Class 8
Packing Group III

Special ProvisionsB52, IB3, T4, TP1, TP29DescriptionUN3066, Paint, 8, III

Emergency Response Guide 153

Number

#### **TDG**

UN/ID no UN3066
Proper shipping name Paint
Hazard Class 8
Packing Group III

**Description** UN3066, Paint, 8, III

## **IATA**

UN/ID no
UN3066
Proper shipping name
Paint
Hazard Class
Packing Group
III
ERG Code
UN3066
Paint
8

Special Provisions A3, A72, A803, A192 UN3066, Paint, 8,

**Description** III

#### **IMDG**

UN/ID no UN3066
Proper shipping name Paint
Hazard Class 8
Packing Group III

EmS-No F-A, S-B Special Provisions 163, 223

**Description** UN3066, Paint, 8, III







# 15. Regulatory Information:

**International Inventories** 

TSCA Complies
DSL/NDSL Complies
EINECS/ELINCS Complies
IECSC Complies
KECL Complies
PICCS Complies

**AICS** 

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

#### **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

## SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)







#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

#### **US State Regulations**

#### **California Proposition 65**

This product contains the following Proposition 65 chemicals

Chemical Name	California Proposition 65	
Methyl alcohol - 67-56-1	Developmental	

#### **U.S. State Right-to-Know Regulations**

This product contains the following Proposition 65 chemicals

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Propylene glycol monomethyl ether 107-98-2	x	х	Х
Methyl alcohol 67-56-1	х	х	Х

#### U.S. E.P.A. Label Information

**EPA Pesticide Registration Number**Not applicable

# 16. Other Information:

NFPA Health hazards 3 Flammability 1 Instability 0 Physical and Chemical Properties -Personal HMIS Health hazards 3 Flammability 1 Physical hazards 0 protection X

Safety Data Sheet issued by Product Safety Department

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Green Shield Products. The data on these sheets relates only to the specific material designated herein. Green Shield Products assumes no legal responsibility for use or reliance upon this data. It is the user's responsibility to ensure that their activities comply with federal, state, or local laws

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