

# Safety Data Sheet

## Section 1 Identification

### **Pad Tough**

Distributed by  
**Creative Science, LLC**  
455 Sovereign Court  
Ballwin, MO 63011  
Phone: 314-549-8329  
Fax: 636-322-2539

**Emergency telephone number –**  
**INFOTRAC: 1-800-535-5053 (US & Canada),**  
**1-352-323-3500 (International)**

## Section 2 Hazard Identification

Emergency Overview  
Color: Brown  
Physical State: Liquid  
Odor: Alcohol  
Hazards of product: Flammable liquid and vapor. Causes eye irritation. May be harmful if inhaled. Aspiration hazard. Can enter lungs and cause damage. Vapor explosion hazard. Eliminate ignition sources.

## Section 3 Composition

Isopropyl Alcohol CAS#67-63-0	Comfrey Extract
Compound Benzoin Tincture	Propylene Glycol
DI Water	

## Section 4 First Aid Measurements

**Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Call a physician and/or transport to emergency facility immediately.

**Eye contact:** Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Get medical attention.

**Skin contact:** In case of contact, immediately flush skin with plenty of water.

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, oxygen should be administered by a qualified professional. Get medical attention if symptoms appear.

**First Aid Procedures:**

**Eye:** Immediately flush with copious amounts of water for at least 15 minutes. If redness or burning sensation develops, have eyes examined and treated by medical personnel.

**Section 5 Fire-Fighting Measures**

**Flammability of the Product:** Flammable.

**Suitable extinguishing media:** Water fog or fine spray; Dry chemical fire extinguishers; Carbon dioxide fire extinguishers; Foam; Alcohol resistant foams (ACT type) are preferred. Do not use direct water stream. Straight or direct water streams may not be effective to extinguish fire.

**Section 6 Accidental Release Measures**

**Small Spill:** Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

**Large Spill:** Flammable liquid. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into soil, ditches, sewers and waterways.

**Section 7 Handling and Storage**

**General Handling:** Keep away from heat, sparks and flame. Avoid contact with eyes. Avoid breathing vapor. Do not swallow. Wash thoroughly after handling.

**Storage:** Avoid direct sunlight. Keep container closed.

**Section 8 Exposure Controls/personal protection**

**Personal protection:** Wear clean, body covering clothing. Use gloves when prolonged or frequently repeated contact could occur. Avoid ingestion. Do not consume or store near food or tobacco. Wash hands and face before eating or smoking. Use only with adequate ventilation.

## **Section 9 Physical and chemical properties**

### **Appearance**

Physical state: Liquid

Color: Brown

Odor: Alcohol

Odor Threshold: No test data available.

pH: No test data available.

Melting Point: Not applicable to liquids

Freezing Point: -89 degrees Celsius (-128 F)

Boiling point: 82 degrees Celsius (180 F)

Flash point: 12 degrees C (54 F)

Evaporation Rate: 2.9

Flammability (solid, gas): Flammable liquid

Flammability limits in air: Lower:2.0% (V)

Upper: 12.0% (V)

Vapor pressure: 33 mmHg @ 20 degrees C

Vapor density (air=1): 2.1

Specific Gravity (H<sub>2</sub>O=1): 0.7855 20 degrees C

Solubility in water: 100% @ 20 degrees C

Partition coefficient: n-octanol/water: 0.05 Measured

Auto ignition temperature: 399 degrees C (750 F)

Decomposition temperature: No test data available

Viscosity: No test data available.

## **Section 10 Stability and reactivity**

**Reactivity:** No dangerous reaction known under conditions of normal use.

**Chemical Stability:** Thermally stable at typical use temperatures.

Possibility of hazardous reactions: Polymerization will not occur.

**Conditions to avoid:** Exposure to elevated temperatures can cause product to decompose. Avoid static discharge.

**Incompatible materials:** Avoid contact with: Aldehydes.

Halogenated organics. Halogens. Strong acids. Strong oxidizer.

**Hazardous decomposition products:** Decomposition products depend upon temperature, air supply and the presence of other materials.

## **Section 11 Toxicological information**

### **Acute Toxicity**

#### **Ingestion**

LD50, rat 5,840 mg/kg

Estimated. Lethal Dose, Humans 100 ml

### **Dermal**

LD50, rabbit > 12,800 mg/kg

### **Inhalation**

LC50, 6 h, Vapor, rat, male and female > 10,000 ppm

### **Eye damage/eye irritation**

May cause irritation to eye tissues. Vapor may cause eye irritation experienced as mild discomfort and redness.

### **Skin corrosion/irritation**

Prolonged exposure not likely to cause significant skin irritation. May cause drying and flaking of the skin.

### **Respiratory**

No relevant data found.

### **Chronic Toxicity and Carcinogenicity**

Did not cause cancer in laboratory animals.

### **Developmental Toxicity**

Isopropanol has been toxic to the fetus in laboratory animals at doses toxic to the mother.

### **Reproductive Toxicity**

In animal studies, did not interfere with reproduction. In animal studies, did not interfere with fertility.

### **Genetic Toxicology**

In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

## **Section 12 Ecological information**

### **Toxicity**

Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 > 100 mg/L in the most sensitive species tested.)

#### **Fish Acute & Prolonged Toxicity**

LC50, Pimephales promelas (fathead minnow), flow-through test, 96 h: 9,640 mg/l

#### **Aquatic Invertebrate Acute Toxicity**

LC50, Daphnia magna (Water flea), static test, 24 h, immobilization: >1,000 mg/l

#### **Aquatic Plant Toxicity**

NOEC, alga Scenedesmus sp., static test, Growth inhibition (cell density reduction), 7 d: 1,800 mg/l ErC50, alga Scenedesmus sp., static test, Growth rate inhibition, 72 h: > 1,000 mg/l

**Toxicity to Micro-organisms**

EC50; activated sludge:> 1,000 mg/l

**Aquatic Invertebrates Chronic Toxicity Value**

Daphnia magna (Water flea), semi-static test, 21 d, NOEC: 30 mg/l

**Persistence and Degradability**

Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.

OECD Biodegradation Tests:

Biodegradation	Exposure Time	Method	10 Day Window
95%	21 d	OECD 301E Test	Pass
53%	5 d	Other guidelines	Pass

Indirect Photodegradation with OH Radicals

Rate Constant	Atmospheric Half-Life	Method
7.26E-12 cm <sup>3</sup> /s	1.472d	Estimated.

Biological oxygen demand (BOD):

BOD 5	BOD 10	BOD 20
20-72%		78-86%

Chemical Oxygen Demand: 2.09 mg/mg

Theoretical Oxygen Demand: 2.40 mg/mg

**Bioaccumulative potential**

Bioaccumulation: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Partition coefficient, n-octanol/water (log Pow): 0.05 Measured

**Mobility in soil**

Mobility in soil: Potential for mobility in soil is very high (Koc between 0 and 50).

Partition coefficient, soil organic carbon/water (Koc): 1.1 Estimated.

Henry's Law Constant (H): 3.38E-06-8.07E-06 atm\*m<sup>3</sup>/mole; 25 C Estimated.

**Section 13 Disposal information**

Do not dump into any sewers, on the ground or into any body of water. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. As your supplier, we have no control over the management practices of

parties handling or using this material. The information presented here pertains only to the product as shipped in its intended conditions as described in MSDS section: Composition information. For unused & uncontaminated product, the preferred options include sending to a licensed, permitted: incinerator or other thermal destruction device.

#### **Section 14 Transport information**

DOT Non-Bulk

Proper Shipping Name: Pad Tough

Hazard Class: 3 ID Number UN1219 Packing Group: PG II

DOT Bulk

Proper Shipping Name: Pad Tough

Hazard: 3 ID Number UN1219 Packing Group: PG II

IMDG

Proper Shipping Name: Pad Tough

Hazard Class: 3 ID Number UN1219 Packing Group: PGII

ICAO/IATA

Proper Shipping Name: Pad Tough

Hazard Class: 3 ID Number UN1219 Packing Group: PGII

Cargo Packing Instruction: 364

Passenger Packing Instruction: 353

*This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.*

#### **Section 15 Regulatory information**

**OSHA Hazard Communication Standard**

This product is a "Hazardous chemical" as defined by the OSHA

Hazard Communication Standard, 29 CFR 1910.1200

**Superfund Amendments and reauthorization Act of 1986 Title III  
(Emergency Planning and Community Right-To-Know Act of 1986)  
Sections 311 and 312**

Immediate (Acute) Health Hazard	yes
Delayed (Chronic) Health Hazard	yes
Fire Hazard	yes
Reactive Hazard	no
Sudden Release of Pressure Hazard	no

**Superfund Amendments and reauthorization Act of 1986 Title III  
(Emergency Planning and Community Right-To-Know Act of 1986)  
Section 313**

This product contains the following substances which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and which are listed in 40 CFR 372.

<b>Component</b>	<b>CAS#</b>	<b>Amount</b>
Isopropanol	67-63-0	

**Pennsylvania (Worker and Community Right-To-Know Act);  
Pennsylvania Special Hazardous Substances List:**

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

**Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) Section 103**

This product contains the following substances which are subject to CERCLA Section 103 reporting requirements and which are listed in 40 CFR 302.4.

<b>Component</b>	<b>CAS#</b>	<b>Amount</b>
Isopropanol	67-63-0	

**California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)**

This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

**Toxic Substances Control Act (TSCA)**

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30

**CEPA-Domestic Substances List (DSL)**

All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

**Section 16 Other information**

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Hazard Rating System

NFPA	Health	Fire	Reactivity
	1	3	0

**Revision**

Issue Date: 5/27/15

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The information hereon is given in good faith but no warranty, expressed or implied, is made.