# SAFETY DATA SHEET



Issue Date 27-Aug-2014 Revision Date 27-Aug-2014 Version 1

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name S17 SUPER CONCENTRATE EXTRACTION

Other means of identification

Product Code S17 Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Liquid Extraction Detergent Concentrate.

Uses advised against No information available

# Details of the supplier of the safety data sheet

**Manufacturer Address** 

Harvard Chemical Research, Inc., 3595 Zip Industrial Blvd., Atlanta, GA 30354

Emergency telephone number

**Company Phone Number** 1-404-761-0657 **24 Hour Emergency Phone Number** 1-800-424-9300

Emergency Telephone Chemtrec 1-800-424-9300

# 2. HAZARDS IDENTIFICATION

### Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1
Carcinogenicity	Category 1A

### Label elements

# **Emergency Overview**

### Danger

#### Hazard statements

Harmful if swallowed Causes serious eye irritation

May cause an allergic skin reaction

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Appearance Clear liquid Physical state liquid Odor Citrus Odor

#### **Precautionary Statements - Prevention**

Obtain special instructions before use

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

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves

### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

Specific treatment (see .? on this label)

IF ON SKIN: Wash with plenty of soap and water

Take off contaminated clothing and wash before reuse

If skin irritation or rash occurs: Get medical advice/attention

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Do not induce vomiting.

### **Precautionary Statements - Storage**

Store locked up

# **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### Hazards not otherwise classified (HNOC)

### Other Information

- May be harmful in contact with skin
- · Harmful to aquatic life with long lasting effects
- · Harmful to aquatic life

**Unknown Acute Toxicity** 

56.4% of the mixture consists of ingredient(s) of unknown toxicity

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%	Trade Secret
Isopropyl Alcohol	67-63-0	<15	*
Ethylene Glycol Monobutyl Ether	111-76-2	<10	*
Terpene Hydrocarbons	5989-27-5	<2	*

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

# 4. FIRST AID MEASURES

#### First aid measures

Eye contact

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

**Skin Contact** Rinse with clear water.

Inhalation Remove to fresh air. If not breathing, clear airway and start artificial respiration. If victim is

having trouble breathing, give supplemental oxygen, if available. Get medical attention.

Ingestion Immediately drink large quantities of water. Get medical attention.

Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Carbon dioxide (CO2). Dry chemical.

Unsuitable extinguishing media Caution: Use of water spray when fighting fire may be inefficient.

# Specific hazards arising from the chemical

No information available.

#### Explosion data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge

#### 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

**Personal precautions** Ensure adequate ventilation, especially in confined areas.

Environmental precautions

**Environmental precautions** See Section 12 for additional ecological information.

# Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Dispose in accordance with federal and state regulations.

# 7. HANDLING AND STORAGE

### Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep container closed when not in use. Keep out of reach of children. Do not freeze. Follow

label instructions.

Incompatible materials Strong acids. OXIDIZERS.

# 8. EXPOSURE CONTROLS/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.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Isopropyl Alcohol	STEL: 400 ppm	TWA: 400 ppm	IDLH: 2000 ppm
67-63-0	TWA: 200 ppm	TWA: 980 mg/m <sup>3</sup>	TWA: 400 ppm
		(vacated) TWA: 400 ppm	TWA: 980 mg/m <sup>3</sup>
		(vacated) TWA: 980 mg/m <sup>3</sup>	STEL: 500 ppm
		(vacated) STEL: 500 ppm	STEL: 1225 mg/m <sup>3</sup>
		(vacated) STEL: 1225 mg/m <sup>3</sup>	
Ethylene Glycol Monobutyl Ether	TWA: 20 ppm	TWA: 50 ppm	IDLH: 700 ppm
111-76-2		TWA: 240 mg/m <sup>3</sup>	TWA: 5 ppm
		(vacated) TWA: 25 ppm	TWA: 24 mg/m <sup>3</sup>
		(vacated) TWA: 120 mg/m <sup>3</sup>	_
		(vacated) S*	
		S*	

### **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 Neoprene or protective rubber gloves. Drenching safety shower and eye wash

station.

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. Respiratory protection must be

provided in accordance with current local regulations.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

Physical state liquid

**Appearance** Clear liquid Odor Citrus Odor

Color light yellow Odor threshold No information available

Remarks • Method Values Property

9.5

Melting point/freezing point No information available

Boiling point / boiling range 100 212°F

Flash point

No information available

**Evaporation rate** 

Flammability (solid, gas) No information available Flammability Limit in Air

Upper flammability limit: No information available

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Lower flammability limit:No information availableVapor pressureNo information available

Vapor density >1 Specific Gravity 1.02

Water solubility completely soluble Solubility in other solvents No information available **Partition coefficient** No information available **Autoignition temperature** No information available **Decomposition temperature** No information available Kinematic viscosity No information available Dynamic viscosity No information available **Explosive properties** No information available Oxidizing properties No information available

**Other Information** 

Softening point
Molecular weight
VOC Content (%)
No information available
No information available
No information available

Density 8.5

Bulk density No 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.

**Hazardous polymerization** Hazardous polymerization does not occur.

# **Conditions to avoid**

Extremes of temperature and direct sunlight.

### **Incompatible materials**

Strong acids. OXIDIZERS.

# **Hazardous Decomposition Products**

Carbon monoxide. Carbon dioxide (CO2). heat.

# 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

Product Information No data available

**Inhalation** Irritation and difficulty in breathing.

**Eye contact** Severely irritating to eyes.

**Skin Contact** No data available.

**Ingestion** Gastric pain and vomiting.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
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Isopropyl Alcohol 67-63-0	= 1870 mg/kg (Rat)	= 4059 mg/kg ( Rabbit )	= 72600 mg/m <sup>3</sup> (Rat)4 h
Ethylene Glycol Monobutyl Ether 111-76-2	= 470 mg/kg ( Rat )	= 99 mg/kg (Rabbit)	= 450 ppm (Rat) 4 h
Terpene Hydrocarbons 5989-27-5	= 4400 mg/kg (Rat)	> 5 g/kg (Rabbit)	-

### Information on toxicological effects

**Symptoms** No information available.

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

SensitizationNo information available.Germ cell mutagenicityNo information available.CarcinogenicityNo information available.

Chemical Name	ACGIH	IARC	NTP	OSHA
Isopropyl Alcohol	-	Group 1	-	X
67-63-0				
Ethylene Glycol Monobutyl	A3	Group 3	-	-
Ether				
111-76-2				
Terpene Hydrocarbons	-	Group 2A	-	X
5989-27-5		· ·		

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
Aspiration hazard
No information available.
No information available.
No information available.

# Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 56.4% of the mixture consists of ingredient(s) of unknown toxicity

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

# 12. ECOLOGICAL INFORMATION

# **Ecotoxicity**

71.5% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Isopropyl Alcohol	1000: 96 h Desmodesmus	9640: 96 h Pimephales promelas	13299: 48 h Daphnia magna mg/L
67-63-0	subspicatus mg/L EC50 1000: 72 h	mg/L LC50 flow-through 11130: 96	EC50
	Desmodesmus subspicatus mg/L	h Pimephales promelas mg/L LC50	
	EC50	static 1400000: 96 h Lepomis	
		macrochirus µg/L LC50	
Ethylene Glycol Monobutyl Ether	-	2950: 96 h Lepomis macrochirus	1000: 48 h Daphnia magna mg/L
111-76-2		mg/L LC50 1490: 96 h Lepomis	EC50 1698 - 1940: 24 h Daphnia
		macrochirus mg/L LC50 static	magna mg/L EC50
Terpene Hydrocarbons	-	35: 96 h Oncorhynchus mykiss mg/L	-
5989-27-5		LC50 0.619 - 0.796: 96 h	
		Pimephales promelas mg/L LC50	
		flow-through	

### Persistence and degradability

No information available.

### Bioaccumulation

No information available.

Chemical Name	Partition coefficient
Isopropyl Alcohol	0.05
67-63-0	

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Ethylene Glycol Monobutyl Ether	0.81
111-76-2	

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.

Chemical Name	California Hazardous Waste Status
Isopropyl Alcohol	Toxic
67-63-0	Ignitable
Terpene Hydrocarbons	Toxic
5989-27-5	

# 14. TRANSPORT INFORMATION

Not regulated DOT

# 15. REGULATORY INFORMATION

International Inventories

**TSCA** Complies **DSL/NDSL** Complies Does not comply **EINECS/ELINCS ENCS** Does not comply **IECSC** Does not comply **KECL** Does not comply **PICCS** Does not comply **AICS** Does not comply

### 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

Chemical Name	SARA 313 - Threshold Values %
Isopropyl Alcohol - 67-63-0	1.0
Ethylene Glycol Monobutyl Ether - 111-76-2	1.0

### SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
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 does not contain any Proposition 65 chemicals

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Isopropyl Alcohol	X	X	X
67-63-0			
Ethylene Glycol Monobutyl Ether	X	X	X
111-76-2			

### U.S. EPA Label Information

**EPA Pesticide Registration Number** Not Applicable

# **16. OTHER INFORMATION**

<u>NFPA</u>	Health hazards 0	Flammability 0	Instability 0	Physical and Chemical Properties -
HMIS_	Health hazards 1	Flammability 0	Physical hazards 0	Personal protection X

Prepared ByMoira BlackflowerIssue Date27-Aug-2014Revision Date27-Aug-2014

Revision Note

No information available

### **Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**