# 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 S43 NON-AMMONIATED STRIPPER CONCENTRATE

Other means of identification

Product Code S43 Synonyms None

Recommended use of the chemical and restrictions on use

**Recommended Use**Non-Ammoniated Stripper 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** 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
Acute toxicity - Dermal	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (single exposure)	Category 3

#### Label elements

## **Emergency Overview**

## Danger

#### Hazard statements

Harmful if swallowed
Harmful in contact with skin

Harmful if inhaled

Causes severe skin burns and eye damage

May cause respiratory irritation. May cause drowsiness or dizziness

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Appearance Clear Physical state liquid Odor Clean

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

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

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

Use only outdoors or in a well-ventilated area

Do not breathe dust/fume/gas/mist/vapors/spray

## **Precautionary Statements - Response**

Specific measures (see .? on this label)

Immediately call a POISON CENTER or doctor/physician

Specific treatment (see .? on this label)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

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

Wash contaminated clothing before reuse

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

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

Immediately call a POISON CENTER or doctor/physician

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

Do not induce vomiting.

Give 1 oz. of magnesia with equal amount of water.

#### **Precautionary Statements - Storage**

Store locked up

Store in a well-ventilated place. Keep container tightly closed

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

#### Other Information

Harmful to aquatic life with long lasting effects

Unknown Acute Toxicity 12.85% of the mixture consists of ingredient(s) of unknown toxicity

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%	Trade Secret
Ethylene Glycol Monobutyl Ether	111-76-2	<70	*
Ethanolamine	141-43-5	<25	*

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

## 4. FIRST AID MEASURES

#### First aid measures

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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

No information available. **Symptoms** 

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. Alcohol Foam.

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 PH adjust and 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
Ethylene Glycol Monobutyl Ether 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m³ (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m³ (vacated) S* S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m <sup>3</sup>
Ethanolamine 141-43-5	STEL: 6 ppm TWA: 3 ppm	TWA: 3 ppm TWA: 6 mg/m³ (vacated) TWA: 3 ppm (vacated) TWA: 8 mg/m³ (vacated) STEL: 6 ppm (vacated) STEL: 15 mg/m³	IDLH: 30 ppm TWA: 3 ppm TWA: 8 mg/m <sup>3</sup> STEL: 6 ppm STEL: 15 mg/m <sup>3</sup>

## **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.

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

**Physical state** liquid **Appearance** Clear

Odor Clean Color **Odor threshold** 

yellow No information available

Values Remarks • Method **Property** 

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Melting point/freezing point No information available

Boiling point / boiling range 100 212°F

Flash point No information available

**Evaporation rate** <1

No information available Flammability (solid, gas)

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Flammability Limit in Air

Upper flammability limit:No information availableLower flammability limit:No information availableVapor pressureNo information available

Vapor density >1 Specific Gravity .96

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

Density 8.0

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
Ethylene Glycol Monobutyl Ether	= 470 mg/kg (Rat)	= 99 mg/kg (Rabbit)	= 450 ppm (Rat) 4 h
111-76-2			
Ethanolamine	= 1720 mg/kg (Rat)	= 1000 mg/kg (Rabbit) = 1 mL/kg	-
141-43-5		( Rabbit )	

#### Information on toxicological effects

**Symptoms** No information available.

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

Sensitization No information available.
Germ cell mutagenicity No information available.
Carcinogenicity No information available.

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethylene Glycol Monobutyl	A3	Group 3	-	-
Ether				
111-76-2				

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 12.85% 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**

17.85% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
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
Ethanolamine	15: 72 h Desmodesmus subspicatus	227: 96 h Pimephales promelas	65: 48 h Daphnia magna mg/L
141-43-5	mg/L EC50	mg/L LC50 flow-through 3684: 96 h	EC50
		Brachydanio rerio mg/L LC50 static	
		300 - 1000: 96 h Lepomis	
		macrochirus mg/L LC50 static 114 -	
		196: 96 h Oncorhynchus mykiss	
		mg/L LC50 static 200: 96 h	
		Oncorhynchus mykiss mg/L LC50	
		flow-through	

#### Persistence and degradability

No information available.

## **Bioaccumulation**

No information available.

Chemical Name	Partition coefficient
Ethylene Glycol Monobutyl Ether 111-76-2	0.81
Ethanolamine 141-43-5	-1.91

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.

## 14. TRANSPORT INFORMATION

DOT Not regulated

## 15. REGULATORY INFORMATION

**International Inventories** 

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

<u>Legend:</u>
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 %		
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
Ethylene Glycol Monobutyl Ether 111-76-2	X	X	X
Ethanolamine 141-43-5	X	X	X

#### **U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not Applicable

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Health hazards 0 Instability 0 NFPA Flammability 0 **Physical and Chemical** 

Properties -

Health hazards 1 Flammability 0 Physical hazards 1 Personal protection X **HMIS** 

**Prepared By** Moira Blackflower **Issue Date** 27-Aug-2014 **Revision Date** 27-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**