



Issue Date 20-May-2014

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Version 2

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

Product identifier	
Product Name	HCR-103
Other means of identificatio	<u>n_</u>
Product Code	3819
Synonyms	None
Recommended use of the cl	nemical and restriction

Recommended use of the chemical and restrictions on useRecommended UseMulti-Purpose Carpet CleanerUses advised againstNo information available

Details of the supplier of the safety data sheet Harvard Chemical Research, Inc., 3595 Zip Industrial Blvd., Atlanta, GA 30354

Emergency telephone number

Chemtrec: 800-424-9300 (Emergency) Harvard: 404-761-0657

2. HAZARDS IDENTIFICATION

Label elemen	<u>ts</u>		
		Emergency Overview	
Appearance	Clear	Physical state liquid Odor	Japanese Pear

### Hazards not otherwise classified (HNOC)

Other Information Unknown Acute Toxicity

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

## **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No.	Weight-%	Trade Secret
Diethylene Glycol Monobutyl Ether	112-34-5	<5	*

\*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 breathing does not return to normal, seek 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. 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 dataSensitivity to MechanicalNone.ImpactSensitivity to Static DischargeNone.

### 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 Dilute with water and flush to sanitary sewer. Comply 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 containers tightly closed in a cool, well-ventilated place. 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** Diethylene Glycol Monobutyl Ether TWA: 10 ppm inhalable fraction 112-34-5 and vapor Appropriate engineering controls **Engineering Controls** Showers Evewash 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. **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 Appearance Color	Clear Liquid Clear	Odor Odor threshold	Japanese Pear No information available
<u>Property</u> pH Melting point/freezing point Boiling point / boiling range Flash point Evaporation rate Flammability (solid, gas)	<u>Values</u> 7.5 No information available 100 >212°F No information available <1 No information available	<u>Remarks • Method</u>	_

Flammability Limit in Air
Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor density
Specific Gravity
Water solubility
Solubility in other solvents
Partition coefficient
Autoignition temperature
Decomposition temperature
Kinematic viscosity
Dynamic viscosity
Explosive properties
Oxidizing properties

#### **Other Information**

Softening point Molecular weight VOC Content (%) Density Bulk density No information available No information available No information available >1 1.04 completely soluble No information available No information available

No information available No information available No information available 8.68 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 dioxide (CO2). Carbon monoxide. 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 Diethylene Glycol Monobutyl Ether 112-34-5 Information on toxicological ef Symptoms	Oral LD50 = 3384 mg/kg (Rat) fects	Dermal LD50 = 2700 mg/kg (Rabbit)	Inhalation LC50 -
112-34-5		= 2700 mg/kg (Rabbit)	-
<sup>1</sup>	fects		
Symptoms			
	No information available.		
Delayed and immediate effects	as well as chronic effects fro	om short and long-term exposu	re
Sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT - single exposure STOT - repeated exposure Aspiration hazard	No information available. No information available. No information available. No information available. No information available. No information available. No information available.		
Numerical measures of toxicity	- Product Information		
Unknown Acute Toxicity The following values are calcul		of ingredient(s) of unknown toxici the GHS document .	ty
	12. ECOLOGICA	L INFORMATION	
Ecotoxicity			
23% of the mixture consists of co		ds to the aquatic environment Fish	Cruetana
Chemical Name	Algae/aquatic plants 100: 96 h Desmodesmus	1300: 96 h Lepomis macrochirus	Crustacea
Diethylene Glycol Monobutyl Ether 112-34-5	subspicatus mg/L EC50	mg/L LC50 static	100: 48 h Daphnia magna mg/L EC50 2850: 24 h Daphnia magna mg/L EC50
Persistence and degradability No information available. Bioaccumulation No information available.			
Other adverse effects	No information available		
13. DISPOSAL CONSIDERATIONS			
Waste treatment methods			
Disposal of wastes	Disposal should be in acc regulations.	ordance with applicable regional,	national and local laws and
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	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

#### 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 %	
Diethylene Glycol Monobutyl Ether - 112-34-5	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
Diethylene Glycol Monobutyl Ether	Х	-	Х
112-34-5			

## U.S. EPA Label Information

EPA Pesticide Registration Number Not Applicable

16. OTHER INFORMATION				
NFPA	Health hazards 0	Flammability 0	Instability 0	Physical and Chemical Properties -
HMIS	Health hazards 1	Flammability 0	Physical hazards 0	Personal protection X
Prepared By	H. Hashtroudi			
Issue Date	20-May-2014			
Revision Date	01-Aug-2018			
Revision Note	Ŭ			
No information available Disclaimer				

The information provided in this 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