

# SAFETY DATA SHEET

Issue Date 02-Jun-2015 Revision Date 02-Jun-2015 Version 1

# 1. IDENTIFICATION

Product identifier

Product Name COMPONENT A

Other means of identification

Product Code RT100102 Synonyms None

Recommended use of the chemical and restrictions on use
Recommended Use Spray foam insulation
Uses advised against No information available

Details of the supplier of the safety data sheet

Manufacturer Address

HENRY COMPANY

999 N. Sepulveda Blvd., Suite 800 El Segundo, CA 90245-2716

Web Site: www.henry.com www.ca.henry.com

Emergency telephone number

Company Phone Number 800-486-1278

Emergency Telephone CHEMTREC: 800-424-9300 CHEMTREC: 703-527-3887

CANUTEC: 613-966-6666

# 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 - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Respiratory sensitization	Category 1
Skin sensitization	Category 1
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2

### Label elements

# **Emergency Overview**

# **Danger**

### **Hazard statements**

Harmful if inhaled

Causes skin irritation

Causes serious eye irritation

May cause allergy or asthma symptoms or breathing difficulties if inhaled

May cause an allergic skin reaction

May cause respiratory irritation

May cause damage to organs through prolonged or repeated exposure

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Appearance viscous Physical state liquid Odor Aromatic

#### **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

Use only outdoors or in a well-ventilated area

Wash face, hands and any exposed skin thoroughly after handling

In case of inadequate ventilation wear respiratory protection

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves

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

# **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

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

If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

# **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)

Not applicable

### Other Information

Not applicable.

#### **Unknown acute toxicity**

0% of the mixture consists of ingredient(s) of unknown toxicity

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance

Chemical Name	CAS No	Weight-%
Isocyanic acid, polymethylenepolyphenylene ester *	9016-87-9	30 - 60
4,4-Methylenediphenyl diisocyanate *	101-68-8	30 - 60
Benzene,	5873-54-1	3 - 7
1-isocyanato-2-[(4-isocyanatophenyl)methyl]- *		

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

#### **Description of first aid measures**

General advice In case of accident or unwellness, seek medical advice immediately (show directions for

use or safety data sheet if possible). If symptoms persist, call a physician.

Eye contact Call a physician immediately. Immediately flush with plenty of water. After initial flushing,

remove any contact lenses and continue flushing for at least 15 minutes. If symptoms

persist, call a physician.

**Skin contact** Wash contaminated clothing before reuse. Wash off immediately with plenty of water. If

symptoms persist, call a physician.

Inhalation Immediate medical attention is required. Move victim to fresh air. Administer oxygen if

breathing is difficult. If breathing is irregular or stopped, administer artificial respiration.

Ingestion Call a physician or poison control center immediately. Do NOT induce vomiting. Drink

plenty of water. Never give anything by mouth to an unconscious person.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved and take precautions to

protect themselves.

### Most important symptoms and effects, both acute and delayed

**Symptoms** May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause

allergic skin reaction.

### Indication of any immediate medical attention and special treatment needed

Note to physicians May cause sensitization in susceptible persons. Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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

#### 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

Personal precautions Evacuate personnel to safe areas. Do not touch or walk through spilled material. Use

personal protective equipment as required.

Environmental precautions

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

not flush into surface water or sanitary sewer system.

### Methods and material for containment and cleaning up

Methods for containment If possible, turn leaking containers so that gas escapes rather than liquid. Absorb spill with

inert material (e.g. dry sand or earth), then place in a chemical waste container. Transport to well ventilated area and treat with neutralizing solution: mixture of 80% water and 20% non-ionic surfactant Tergitol TMN-10; or 90% water, 3-8% concentrated ammonia and 2% detergent. Add about 10 parts of neutralizer per part of isocyanate, with mixing. Allow

substance to evaporate.

Methods for cleaning up Do not direct water at spill or source of leak. Decontaminate floor with decontamination

solution letting stand for at least 15 minutes.

### 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Avoid contact with skin, eyes or clothing. Ensure adequate ventilation, especially in

confined areas. Avoid breathing vapors or mists.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a cool, well-ventilated place.

Incompatible materials Water. Alcohols. Strong bases. Strong oxidizing agents. Finely powdered metals.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

**Exposure Guidelines** 

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
4,4-Methylenediphenyl diisocyanate	TWA: 0.005 ppm	Ceiling: 0.02 ppm	IDLH: 75 mg/m <sup>3</sup>
101-68-8		Ceiling: 0.2 mg/m <sup>3</sup>	Ceiling: 0.020 ppm 10 min
			Ceiling: 0.2 mg/m <sup>3</sup> 10 min
			TWA: 0.005 ppm
			TWA: 0.05 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** Wear safety glasses with side shields (or 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. 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

AppearanceviscousOdorAromatic

Color brown Odor threshold No information available

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

pH No information available
Melting point / freezing point
Boiling point / boiling range
Flash point 198 °C / 388.4 °F
Evaporation rate No information available
Flammability (solid, gas)
Flammability Limit in Air

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

Vapor pressure ~0

Vapor density No information available

Relative density 1.234

Water solubility insoluble Reacts with water Solubility in other solvents
Partition coefficient No information available 150-250 mPa s

**Explosive properties**Oxidizing properties
No information available
No information available

Other Information

Softening point
Molecular weight
VOC Content (%)
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 may occur.

### **Conditions to avoid**

Keep from any possible contact with water. Extremes of temperature and direct sunlight. Storage near to reactive materials.

### **Incompatible materials**

Water. Alcohols. Strong bases. Strong oxidizing agents. Finely powdered metals.

#### **Hazardous Decomposition Products**

Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides (NOx). Hydrogen cyanide. 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 May cause irritation of respiratory tract. May cause sensitization by inhalation. Harmful by

inhalation.

Eye contact Irritating to eyes.

**Skin contact**Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

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Irritating to skin.

Ingestion

Based on available data, the classification criteria are not met.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	= 49 g/kg (Rat)	> 9400 mg/kg ( Rabbit )	= 490 mg/m³ ( Rat ) 4 h
4,4-Methylenediphenyl diisocyanate = 31600 mg/kg (Rat) = 9200 mg/kg (Rat)		-	= 369 mg/m³ ( Rat ) 4 h

#### Information on toxicological effects

**Symptoms** May cause an allergic skin reaction. Redness.

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

Sensitization
Germ cell mutagenicity
Carcinogenicity

Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.

This product contains one or more substances which are classified by IARC as

carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly

carcinogenic to humans (Group 2B).

Chemical Name	ACGIH	IARC	NTP	OSHA
lsocyanic acid, polymethylenepolyphenylen e ester 9016-87-9	-	Group 3	-	-
4,4-Methylenediphenyl diisocyanate 101-68-8	•	Group 3	-	-

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
Based on available data, the classification criteria are not met.
Causes damage to organs through prolonged or repeated exposure.

Chronic toxicity Repeated or prolonged exposure may cause central nervous system damage. Repeated or

prolonged contact causes sensitization, asthma and eczemas.

Target Organ EffectsRespiratory system, Eyes, Skin, Central nervous system.Aspiration hazardBased on available data, the classification criteria are not met.

# Numerical measures of toxicity - Product Information

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

**ATEmix (oral)** 18,281.00 **ATEmix (dermal)** 17,108.00

ATEmix (inhalation-dust/mist) 3.30 18282 17094 4

# 12. ECOLOGICAL INFORMATION

# **Ecotoxicity**

100 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

#### 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 accordance with applicable regional, national and local laws and

regulations.

**Contaminated packaging** Do not reuse container.

# 14. TRANSPORT INFORMATION

DOTNot regulatedTDGNot regulatedIATANot regulatedIMDGNot regulated

# 15. REGULATORY INFORMATION

**International Inventories** 

TSCA Complies
DSL/NDSL Complies
EINECS/ELINCS 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 contains a chemical or 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 %	
Isocyanic acid, polymethylenepolyphenylene ester - 9016-87-9	1.0	
4,4-Methylenediphenyl diisocyanate - 101-68-8	1.0	
Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl] 5873-54-1	1.0	

### 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, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

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Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
4,4-Methylenediphenyl diisocyanate	5000 lb	-	RQ 5000 lb final RQ
101-68-8			RQ 2270 kg final RQ

# **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
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	X	-	-
4,4-Methylenediphenyl diisocyanate 101-68-8	Х	Х	Х
Benzene, 1-isocyanato-2-[(4-isocyanatophenyl )methyl]- 5873-54-1	X	-	-

# U.S. EPA Label Information

**EPA Pesticide Registration Number** Not applicable

# 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA Health hazards 3 Flammability 1 Instability 0 Physical and Chemical

Properties -

HMIS Health hazards 3\* Flammability 1 Physical hazards 0 Personal protection X

Issue Date02-Jun-2015Revision Date02-Jun-2015

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**