## SAFETY DATA SHEET

### Section 1. Identification

**GHS** product identifier ISO 1090A ISO 1090A Product code

Other means of identification: **Product type** Liquid.

Material uses Urethane Elastomer

Forsch Polymer Corp Supplier's details

3025 S. Wyandot St. Englewood, Co. 80110

Non-Emergency phone: (303) 322-9611

e-mail address of person responsible for this SDS

Bill@forschpolymer.com James@forschpolymer.com

**Emergency telephone** number (24h/7day)

: 303-548-7716

### Section 2. Hazards identification

: This material is considered hazardous by the OSHA Hazard Communication

Standard (29 CFR 1910.1200).

**OSHA/HCS** status

ACUTE TOXICITY (oral) - Category 4

ACUTE TOXICITY (inhalation) - Category 4

SERIOUS EYE DAMAGE! EYE IRRITATION - Category 2A

Classification of the RESPIRATORY SENSITIZATION - Category 1

substance or mixture SKIN SENSITIZATION - Category 1 AQUATIC HAZARD (ACUTE) - Category 3

AQUATIC HAZARD (LONG-TERM) - Category 3

**GHS** label elements **Hazard pictograms** 





Danger

Harmful if swallowed or if inhaled.

Causes serious eye irritation.

Signal word

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

May cause an allergic skin reaction.

Harmful to aquatic life with long lasting effects.

### Section 2. Hazards identification

#### **Precautionary statements**

Wear protective gloves: > 8 hours (breakthrough time); butyl rubber, Ethyl Vinyl Alcohol Laminate (EVAL). Wear eye or face protection. In case of inadequate ventilation wear respiratory protection. Use only outdoors or in a well-ventilated area. Avoid release to the environment, Avoid breathing vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. If experiencing respiratory symptoms: Call a POISON CENTER or physician. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical 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 attention. Dispose of contents and container in accordance with all local, regional, national and international regulations.

Other hazards which do not: None known. result in classification

### Section 3. Composition/information on ingredients

Substance/mixture

Mixture

%	CAS number
13 - 30	5124-30-1
1-3	4098-71-9
	13 - 30

Any concentration shown as a range is to protect confidentiality or is due to batch variation. Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

#### Description of necessary first aid measures

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. In the event of any complaints or symptoms, avoid further exposure.

Skin contact

Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

#### Section 4. First aid measures

Ingestion

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

# Most important symptoms/effects, acute and delayed Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if

inhaled. Exposure to decomposition products may cause a health hazard.

Serious effects may be delayed following exposure.

**Skin contact** : May cause an allergic skin reaction.

Ingestion : Harmful if swallowed. Irritating to mouth, throat and stomach.

Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:

Pain or irritation

Redness

Inhalation : Adverse symptoms may include the following:

Wheezing and breathing difficulties

asthma

Skin contact : Adverse symptoms may include the following:

Irritation

**Ingestion** Redness

: No specific data

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

No specific treatment. Treat symptomatically. Call medical doctor or poison control

center immediately if large quantities have been ingested.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it

is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing

thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

### Section 5. Fire-fighting measures

Flash point

: Closed cup: >150°C (>302°F) [DIN 51758 EN 22719 (Pensky-Martens Closed Cup)]

**Extinguishing media** 

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

: None known.

Specific hazards arising from the chemical

In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products

Decomposition products may include the following materials: carbon dioxide

carbon monoxide nitrogen oxides

Special protective actions for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure

#### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

:If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

Methods and materials for containment and cleaning up

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### Section 7. Handling and storage

#### Precautions for safe handling

#### **Protective measures**

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

# Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

# Conditions for safe storage, including any incompatibilities

Store between the following temperatures: 2 to 40°C (35.6 to 104°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

### Section 8. Exposure controls/personal protection

#### **Control parameters**

Occupational exposure limits

Ingredient name	Exposure limits		
Dicyclohexylmethane-4,4'-diisocyanate  3-isocyanatomethy1-3,5,5-trimethylcyclohexylisocyanate	ACGIH TLV (United States, 6/2013). TWA: 0.054 mg/m³ 8 hours. TWA: 0.005 ppm 8 hours. OSHA PEL (United States, 2/2013). Absorbed through skin. TWA: 5 mg/m³, (as CN) 8 hours. ACGIH TLV (United States, 6/2013). TWA: 0.005 ppm 8 hours. OSHA PEL (United States, 2/2013).		
	Absorbed through skin. TWA: 5 mg/m³, (as CN) 8 hours.		

# Appropriate engineering controls

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

# **Environmental exposure** controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### **Individual protection measures**

### Section 8. Exposure controls/personal protection

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

**Hand protection** 

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. > 8 hours (breakthrough time): butyl rubber, Ethyl Vinyl Alcohol Laminate (EVAL)

**Body protection** 

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Thermal hazards

Not available.

### Section 9. Physical and chemical properties

**Appearance** 

Physical state Liquid.
Color : Amber.
Odor : Slight

Odor threshold : Not available.

PH : Not available.

Melting point/Freezing point : Not available.

Boiling/condensation point : >200°C (>392°F)

Flash point : Closed cup: >150°C (>302°F) [DIN 51758 EN 22719 (Pensky-Martens Closed Cup)]

Evaporation rate : Not available.
Flammability (solid, gas) : Not available.
Lower and upper explosive : Not available.

(flammable) limits

Vapor pressure : Not available.
Vapor density : Not available.

Relative density : 1.05

Solubility in water : Reacts violently with water.

### Section 9. Physical and chemical properties

Partition coefficient: n-

octanol/water

: Not available.

**Auto-ignition temperature** 

: Not available.

**Decomposition temperature** 

: >200°C (>392°F) : 1.05 g/cm³ [25°C (77°F)]

Density Viscosity

: Not available.

### Section 10. Stability and reactivity

Reactivity

: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** 

: The product is stable.

Possibility of hazardous

occur, reactions

: Under normal conditions of storage and use, hazardous reactions will not

Conditions to avoid

: No specific data.

Incompatible materials

: No specific data.

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

### Section 11. Toxicological information

#### Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Test	Endpoint	Species	Result
Dicyclohexylmethane-4,4'-diisocyanate	OECD 403 Acute Inhalation Toxicity	LC50 Inhalation Dusts and mists	Rat - Male, Female	0.43 mg/l
	OECD 402 Acute Dermal Toxicity	LD50 Dermal	Rat - Male, Female	>7000 mg/kg
		LD50 Oral	Rat - Male, Female	18200 mg/kg
3-isocyanatomethyl-3,5, 5-trimethylcyclohexylisocyanate	OECD 403 Acute Inhalation Toxicity	LC50 Inhalation Dusts and mists	Rat - Male, Female	0.04 mg/l
	OECD 401 Acute Oral Toxicity	LD50 Oral	Rat	4814 mg/kg

#### Irritation/Corrosion

Product/ingredient name	Test	Species	Result
Dicyclohexylmethane-4,4'- diisocyanate	OECD 404 Acute Dermal	Rabbit	Skin - Irritant
	OECD 405 Acute Eye Irritation/	Rabbit	Eyes - Irritant
3-isocyanatomethyl-3,5, 5- trimethylcyclohexylisocyanate	Corrosion	Rabbit	Eyes - Irritant

Conclusion/Summary Skin

### Section 11. Toxicological information

Dicyclohexylmethane-4,4'-

diisocyanate 3-

Severely irritating to the skin.

isocyanatomethyl-3, 5, 5-

trimethylcyclohexylisocyanate

No additional information.

Eyes

Dicyclohexylmethane-4,4'- Irritating to eyes.

diisocyanate

3-isocyanatomethy1-3,5, Irritating to eyes.

5-trimethylcyclohexylisocyanate

Respiratory

Dicyclohexylmethane-4,4'- No additional information.

diisocyanate

3-isocyanatomethy1-3,5,

No additional information.

5-trimethylcyclohexylisocyanate

#### Sensitization

Product/ingredient name	Test	Route of exposure	Species	Result
Dicyclohexylmethane-4,4'- diisocyanate	-	-Guinea skin	Guinea pig	Sensitizing
3-isocyanatomethyl-3,5, 5-		skinRespiratory	Guinea pig pig	Sensitizing Sensitizing
trimethylcyclohexylisocyanate		Respiratory	Human	Sensitizing

#### Mutagenicity

Product/ingredient name	Test	Result
Dicyclohexylmethane-4,4'-diisocyanate	Experiment: In vitro Subject: Bacteria Metabolic activation: +/-	Negative
	Experiment: In vitro Subject: Mammalian-Animal Metabolic activation: +/-	Negative
	Experiment: In vitro Subject: Mammalian-Animal Metabolic activation: +/-	Negative

#### Conclusion/Summary

Dicyclohexylmethane-4,4'- Not mutagenic in a standard battery of genetic diisocyanate toxicological tests.

#### Carcinogenicity

Not available.

#### Reproductive toxicity

Product/ingredient name	Test	Species	Maternal toxicity	Fertility	Developmental effects
Dicyclohexylmethane-4,4'-diisocyanate	OECD 421 Reproduction/ Developmental Toxicity Screening Test	Rat - Male, Female	Positive	Negative	Negative

#### **Teratogenicity**

# Section 11. Toxicological information

Product/ingredient name	Test	Species	Result/Result type
Dicyclohexylmethane-4,4'-diisocyanate	OECD 414 Prenatal Developmental Toxicity Study	Rat - Female	Negative - Inhalation

#### Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Dicyclohexylmethane-4,4'-diisocyanate	Category 3	Not applicable.	Respiratory tract
3-isocyanatomethy1-3,5, 5- trimethylcyclohexylisocyanate	Category 3	Not applicable.	Respiratory tract irritation

#### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

Information on the likely

: Not available.

routes of exposure

#### Potential acute health effects

Eye contact

Causes serious eye irritation.

Inhalation

Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Exposure to decomposition products may cause a health hazard.

Serious effects may be delayed following exposure.

Skin contact

May cause an allergic skin reaction.

Ingestion

Harmful if swallowed. Irritating to mouth, throat and stomach.

#### Symptoms related to the physical, chemical and

toxicological characteristics

Eye contact

Adverse symptoms may include the following:

pain or irritation

watering redness

Inhalation

Adverse symptoms may include the following:

wheezing and breathing difficulties

asthma

Skin contact

Adverse symptoms may include the following:

irritation redness

Ingestion

**Delayed and immediate** 

Short term exposure

effects and also chronic effects from short and long term exposure

**Potential** 

: Not available.

immediate effects

: Not available.

Potential delayed

effects

Long term exposure

Potential

: Not available.

immediate effects

No specific data.

# Section 11. Toxicological information

Potential delayed

: Not available.

effects

#### Potential chronic health effects

Product/ingredient name	Test	Endpoint	Species	Result	
Dicyclohexylmethane-4,4'- diisocyanate	OECD 413 Subchronic Inhalation Toxicity: 90-day Study	Sub-chronic NOEC Inhalation Dusts and mists	Rat - Male, Female	3 mg/m³	

General Once sensitized, a severe allergic reaction may occur when subsequently exposed

to very low levels.

Carcinogenicity No known significant effects or critical hazards. Mutagenicity No known significant effects or critical hazards. **Teratogenicity** No known significant effects or critical hazards. **Developmental** No known significant effects or critical hazards.

effects

**Fertility effects** : No known significant effects or critical hazards.

#### **Numerical measures of toxicity**

**Acute toxicity estimates** 

Not available.

Other information

: Not available.

### Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Test	Endpoint		Exposure	Species	Result	
Dicyclohexylmethane-4,4'-diisocyanate	EU EC C.2 Acute Toxicity for Daphnia	Acute	EC50	48 hours Daphnia	>8.3	mg/l	
	EU EC C.3 Algal Inhibition Test	Acute	EgC50	72 hours Static	Algae	>5	mg/l
	EU EC C.1 Acute Toxicity for Fish	Acute	LC50	96 hours Static	Fish	>8.1	mg/l
	EU EC C.3 Algal Inhibition Test	Chronic	NOECr	72 hours Static	Algae	0.31	mg/l
3-isocyanatomethyl-3,5, 5-trimethylcyclohexylisocyanate	-	Acute	EC50	72 hours	Algae	118.7	mg/l
	EU EC 88/302/EC DIN 38412 (Lumistox test)	Acute Acute	EC50 EC50	3 hours 24 hours	Bacteria Daphnia	263 83.7	mg/l mg/l
	DIN 38412 (Lumistox test)	Acute	LC50	48 hours	Fish	1.8	mg/l
	OECD	Chronic	NOEC	21 days	Daphnia	3	mg/l

#### Persistence and degradability

Product/ingredient name	Test	Period	Result	
Dicyclohexylmethane-4,4'- diisocyanate	EU	28 days	0 %	
3-isocyanatomethyl-3,5, 5- trimethylcyclohexylisocyanate	EU Tested according to Directive 92/69/EEC	28 days	0 %	

### Section 12. Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Dicyclohexylmethane-4,4'-diisocyanate 3-		-	Not readily
isocyanatomethy1-3,5, 5- trimethylcyclohexylisocyanate			Not readily

#### Bioaccumulative potential

Not available.

#### **Mobility in soil**

Not available.

#### Other adverse effects

#### Other ecological information

: No known significant effects or critical hazards.

BOD5 Not Determined

COD Not Determined

**TOC** Not Determined

### Section 13. Disposal considerations

#### **Disposal methods**

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

### Section 14. Transport information

#### **Proper shipping name**

DOT: Not regulated.
TDG: Not regulated.
IMDG: Not regulated.
IATA: Not regulated.

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

Regulatory information	UN number	Classes	PG*	Label	Additional information
DOT Classification	Not regulated.	-	-		-
TDG Classification	Not regulated.	-			-
IMDG Classification	Not regulated.	-	_		-
IATA Classification	Not reg ulated.	-	-		-

PG\*: Packing group

### Section 15. Regulatory information

Safety, health and environmental regulations specific for the product United States Regulations

TSCA 8(b) inventory : All components are listed or exempted.

TSCA 5(a)2 final significant new use rule

(SNUR)

: No ingredients listed.

TSCA 5(e) substance consent order

TSCA 12(b) export

notification

: No ingredients listed.

: No ingredients listed.

SARA 311/312 : Immediate (acute) health hazard

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)

Clean Air Act - Ozone Depleting Substances (ODS) Product name Concentration %

Dicyclohexylmethane-4,4'-diisocyanate 14.624
3-isocyanatomethy1-3,5, 2.265 5trimethylcyclohexylisocyanate

EPCRA Section 313 (40 CFR 372) CERCLA (Comprehensive Environmental Response, Compensation and Liability Act): 4,4-Methylene diphenyl diisocyanate (CAS 101-68-8) has a 5,000 lb. RQ (reportable quantity). Any spill or release above the RQ must be reported to the National Response Center (800-424-8802).

This product does not contain nor is it manufactured with ozone depleting substances.

SARA 313
Form R - Reporting

Product name
Concentration %

14.624
3-isocyanatomethy1-3,5,
2.265 5trimethylcyclohexylisocyanate

### Section 15. Regulatory information

	Ingredient name	<u>%</u>	Section 304 CERCLA Hazardous Substance	CERCLA Reportable Quantity (Lbs)	Product Reportable Quantity (Lbs)
CERCLA Hazardous substances	Dicyclohexylmethane-	14.624	Listed	No RQ	
	4,4'-diisocyanate 3- isocyanatomethyl-3, 5.	2.265	Listed	assigned No RQ assigned	
	5-trimethylcyclohexylisocy	anate			

Cin	-			-41	one
Sta		انط	ш	au	UIIS

PENNSYLVANIA - RTK Dicyclohexylmethane-4,4'-diisocyanate, 3-isocyanatomethy1-3,5,

5-trimethylcyclohexylisocyanate

California Prop 65 : 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.

#### Canadian regulations

CEPA DSL : At least one component is not listed.

WHMIS Classes : Class D-1A: Material causing immediate and serious toxic effects (Very toxic).

Class D-2A: Material causing other toxic effects (Very toxic).

Class D-2B: Material causing other toxic effects (Toxic).

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

#### **Brazil Regulations**

Classification system : Norma ABNT-NBR 14725-2:2012

used

International lists

: Australia inventory (AICS): All components are listed or exempted.
China inventory (IECSC): At least one component is not listed.
Japan inventory: All components are listed or exempted.
Korea inventory: At least one component is not listed.
Malaysia Inventory (EHS Register): Not determined.

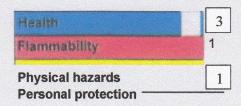
New Zealand Inventory of Chemicals (NZIoC): At least one component is not listed.

Philippines inventory (PICCS): At least one component is not listed.

Taiwan inventory (CSNN): Not determined.

### Section 16. Other information

Hazardous Material Information System (U.S.A.)



The customer is responsible for determining the PPE code for this material.

#### Section 16. Other information

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify

#### **Further information**

Date of issue 5/15/15

® Indicates information that has changed from previously issued version.

chemicals does so at their own risk.

#### Notice to reader

While the information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE.

IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE.

THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

Hazards, toxicity and behavior of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behavior should be determined by the user and made known to handlers, processors and end users.