

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Issue date: 01/06/2021 Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : UR3005 Clear A

1.2. Recommended use and restrictions on use

Recommended use : Isocyanates

Restrictions on use : Product for industrial use only

1.3. Supplier

ResinLab, LLC N109 W13300 Ellsworth Drive Germantown, WI 53022 - United States T 1-877-259-1669

msds@resinlab.com - www.resinlab.com

1.4. Emergency telephone number

Emergency number : CHEMTREC:1-800-424-9300 (USA); +1 703-527-3887 (International)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Acute toxicity (inhalation:dust,mist) Category 4
Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2
H332
Harmful if inhaled
Causes skin irritation
Causes serious eye irritation
Causes serious eye irritation

Respiratory sensitization, Category 1 H334 May cause an allergy or asthma symptoms or breathing difficulties if inhaled

Skin sensitization, Category 1 H317 May cause an allergic skin reaction Specific target organ toxicity — Single exposure, Category 3, H335 May cause respiratory irritation

Respiratory tract irritation

Specific target organ toxicity (repeated exposure) Category 2 H373 May cause damage to organs through prolonged or repeated exposure

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :





Signal word (GHS US) : Danger

Hazard statements (GHS US) : H315 - Causes skin irritation

H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H334 - May cause an allergy or asthma symptoms or breathing difficulties if inhaled

H335 - May cause respiratory irritation

H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statements (GHS US)

P260 - Do not breathe dust/fume/gas/mist/vapors/spray. P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P264 - Wash hands, forearms and face thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area.

P272 - Contaminated work clothing must not be allowed out of the workplace. P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P284 - [In case of inadequate ventilation] wear respiratory protection.

P302+P352 - If on skin: Wash with plenty of water.

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.

P304+P341 - If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for

breathing.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

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P312 - Call a poison center or doctor if you feel unwell.

P314 - Get medical advice/attention if you feel unwell.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P342+P311 - If experiencing respiratory symptoms: Call a poison center or doctor.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

Other hazards which do not result in classification

: Possible sensitizer, reacts with common materials such as water and alcohols releasing CO2.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Polymer of 4,4'-diisocyanatodiphenylmethane	(CAS-No.) 9016-87-9	30 – 50	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335 STOT RE 2, H373
4,4'-diisocyanatodiphenylmethane	(CAS-No.) 101-68-8	10 – 30	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335 STOT RE 2, H373
o-(p-isocyanatobenzyl)phenyl isocyanate	(CAS-No.) 5873-54-1	1 – 5	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335 STOT RE 2, H373
2,2'-methylenediphenyl diisocyanate	(CAS-No.) 2536-05-2	0.1 – 0.5	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335 STOT RE 2, H373

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general

: MDI vapors at concentrations above the PEL or TLV can cause asthma like symptoms. Persons with preexisting bronchial conditions may respond at concentrations below the TLV or PEL. These effects can be delayed for several hours and are usually reversible. Call a poison center/doctor/physician if you feel unwell.

First-aid measures after inhalation

: If inhaled: Remove person to fresh air and keep comfortable for breathing. Asthmatic sensitization can occur from a single large inhalation exposure or from repeated lower inhalation exposures. Observe OELs. Symptoms may be delayed. The affected person must rest and be kept under medical observation 48 hours. If experiencing respiratory symptoms, call a doctor

First-aid measures after skin contact

: Polyglycol based skin cleansers such as Tam D or PEG 400 or corn oil may be more effective than using soap and water. If no corn oil or polyglycol-based skin cleanser available, Rinse immediately with plenty of water for 15 minutes. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

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First-aid measures after eye contact

: 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.

First-aid measures after ingestion

: Never give anything by mouth to an unconscious person. Rinse mouth out with water. Do not induce vomiting. Obtain medical attention. Call a poison center/doctor/physician if you feel unwell

Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation

: May cause respiratory irritation. May cause an allergy or asthma symptoms or breathing difficulties if inhaled.

Symptoms/effects after skin contact

Irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact

: Eye irritation.

Most Important Symptoms/Effects

: Contains diisocyanate. Skin contact may aggravate existing condition, inhalation of aerosol or vapor above or at OEL may aggravate existing respiratory condition.

Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media Unsuitable extinguishing media

- : Water spray. Dry powder. Foam. Carbon dioxide.
- Do not use water jet to extinguish. Water may be used if no other available and then in copious quantities. Reaction between water and hot isocyanate may be vigorous.

5.2 Specific hazards arising from the chemical

Special protective equipment and precautions for fire-fighters

Protection during firefighting

: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures

: Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eves.

6.1.2. For emergency responders

Protective equipment

: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2 **Environmental precautions**

Avoid release to the environment

Methods and material for containment and cleaning up

Methods for cleaning up

: Take up liquid spill into absorbent material. Ventilate and remove ignition sources. Cover spill area with suitable absorbant material. Shovel into vented container. Repeat if necessary. Decontaminate spill area with a mixture of 90% water and 10% non ionic surfactant such as

Other information

: Dispose of materials or solid residues at an authorized site.

Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

Precautions for safe handling

Precautions for safe handling

: Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Wear personal protective equipment.

Hygiene measures

: Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

Conditions for safe storage, including any incompatibilities

Storage conditions

: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Polymer of 4,4'-diisocyanatodiphenylmethane (9016-87-9)			
Not applicable			
4,4'-diisocyanatod	4,4'-diisocyanatodiphenylmethane (101-68-8)		
ACGIH	Local name	Methylene bisphenyl isocyanate (MDI)	
ACGIH	ACGIH OEL TWA [ppm]	0.005 ppm	
ACGIH	Remark (ACGIH)	TLV® Basis: Resp sens	
ACGIH	Regulatory reference	ACGIH 2020	
OSHA	OSHA PEL (Ceiling)	0.2 mg/m³	
OSHA	OSHA PEL C [ppm]	0.02 ppm	
OSHA Regulatory reference (US-OSHA) OSHA Annotated Table Z-1			
o-(p-isocyanatobenzyl)phenyl isocyanate (5873-54-1)			
Not applicable			
2.2'-methylenediphenyl diisocyanate (2536-05-2)			

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station, ventilate curing ovens to prevent emissions in the

workplace.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Not applicable

Protective gloves

Eye protection:

Safety glasses with side shields

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of inadequate ventilation, wear respiratory protection. When using a spray gun or other means to aerosolize the material, respiratory protection is required.

Personal protective equipment symbol(s):







SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Color : Black
Odor : characteristic
Odor threshold : No data available
pH : No data available
Melting point : Not applicable

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Freezing point : No data available Boiling point : > 208 °C Flash point : > 198 °C Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : Not applicable. Vapor pressure : No data available Relative vapor density at 20 °C : No data available Relative density No data available : 1.11 g/cm³ Specific gravity / density Solubility : No data available Partition coefficient n-octanol/water (Log Pow) : No data available Auto-ignition temperature : No data available : No data available Decomposition temperature Viscosity, dynamic : No data available **Explosion limits** : No data available Explosive properties No data available Oxidizing properties : No data available VOC content No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Contact with moisture, other materials that react with isocyanates or temperatures above 177C may cause polymerization.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). Moisture.

10.5. Incompatible materials

Amines. Strong bases. Water. copper. alcohols.

10.6. Hazardous decomposition products

Carbon oxides (CO, CO2). Nitrogen oxides. isocyanate vapor and irritating organic vapors.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Harmful if inhaled.

ATE US (dust, mist)	2.574 mg/l/4h	
Polymer of 4,4'-diisocyanatodiphenylmethane (9016-87-9)		
LD50 oral rat	> 10000 mg/kg (Rat, Literature study, Oral)	
LD50 dermal rabbit	> 5000 mg/kg (Rabbit, Literature study, Dermal)	
ATE US (gases)	4500 ppmV/4h	
ATE US (vapors)	11 mg/l/4h	
ATE US (dust, mist)	1.5 mg/l/4h	

4,4'-diisocyanatodiphenylmethane (101-68-8)	
LD50 oral rat	> 7616 mg/kg (Equivalent or similar to OECD 401, Rat, Female, Read-across, Oral)
LD50 dermal rabbit	> 9400 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Read-across, Dermal)
LC50 Inhalation - Rat	0.49 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Read-across, Inhalation (aerosol))

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4,4'-diisocyanatodiphenylmethane (101	1-68-8)
ATE US (gases)	4500 ppmV/4h
ATE US (vapors)	11 mg/l/4h
ATE US (dust, mist)	1.5 mg/l/4h
o-(p-isocyanatobenzyl)phenyl isocyana	ate (5873-54-1)
LD50 oral rat	> 2000 mg/kg body weight (Rat, Male / female, Read-across, Oral, 14 day(s))
LD50 dermal rabbit	> 9400 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Read-across, Dermal, 14 day(s))
LC50 Inhalation - Rat	0.42 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value of similar product, Inhalation (aerosol))
ATE US (gases)	4500 ppmV/4h
ATE US (vapors)	11 mg/l/4h
ATE US (dust, mist)	1.5 mg/l/4h
2,2'-methylenediphenyl diisocyanate (2	2536-05-2)
LD50 oral rat	> 2000 mg/kg body weight (Other, Rat, Male / female, Read-across, Oral)
LD50 dermal rabbit	> 9400 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Read-across, Dermal)
LC50 Inhalation - Rat	527 mg/m³ air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male, Experimental value, Inhalation (aerosol))
ATE US (gases)	4500 ppmV/4h
ATE US (vapors)	11 mg/l/4h
ATE US (dust, mist)	1.5 mg/l/4h
kin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: May cause an allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Polymer of 4,4'-diisocyanatodiphenylm	nethane (9016-87-9)
IARC group	3 - Not classifiable
4,4'-diisocyanatodiphenylmethane (10°	1-68-8)
IARC group	3 - Not classifiable
Poproductive toxicity	: Not classified
Reproductive toxicity	
TOT-single exposure	: May cause respiratory irritation.
Polymer of 4,4'-diisocyanatodiphenylm	
STOT-single exposure	May cause respiratory irritation.
4,4'-diisocyanatodiphenylmethane (10'	1-68-8)
STOT-single exposure	May cause respiratory irritation.
o-(p-isocyanatobenzyl)phenyl isocyana	ate (5873-54-1)
STOT-single exposure	May cause respiratory irritation.
2,2'-methylenediphenyl diisocyanate (2	2536-05-2)
STOT-single exposure	May cause respiratory irritation.
TOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.
Polymer of 4,4'-diisocyanatodiphenylm	nethane (9016-87-9)
OTOT 1	May cause damage to organs through prolonged or repeated exposure.
STOT-repeated exposure	
4,4'-diisocyanatodiphenylmethane (10'	1-68-8)
<u> </u>	1-68-8) May cause damage to organs through prolonged or repeated exposure.
4,4'-diisocyanatodiphenylmethane (10'	May cause damage to organs through prolonged or repeated exposure.

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2,2'-methylenediphenyl diisocyanate (2536-05-2)		
STOT-repeated exposure	osure May cause damage to organs through prolonged or repeated exposure.	
Aspiration hazard	: Not classified	
Symptoms/effects after inhalation	: May cause respiratory irritation. May cause an allergy or asthma symptoms or breathing difficulties if inhaled.	
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.	
Symptoms/effects after eye contact	: Eye irritation.	
Most Important Symptoms/Effects	: Contains diisocyanate. Skin contact may aggravate existing condition, inhalation of aerosol or vapor above or at OEL may aggravate existing respiratory condition.	

SECTION 12: Ecological information

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К	171	г	n	vi	М	itv

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

eneda in the Grivinorine.		
Polymer of 4,4'-diisocyanatodiphenylmethane (9016-87-9)		
> 1000 mg/l (96 h, Literature study)		
> 1000 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system, Fresh water, Read-across, Nominal concentration)		
129.7 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 24 h, Daphnia magna, Static system, Fresh water, Read-across, Locomotor effect)		
(3-54-1)		
> 1000 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system, Fresh water, Read-across, Nominal concentration)		
> 1000 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 24 h, Daphnia magna, Static system, Fresh water, Read-across, Nominal concentration)		
> 1640 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Read-across, GLP)		
-2)		
> 1000 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system, Fresh water, Read-across, GLP)		
> 1000 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 24 h, Daphnia magna, Static system, Fresh water, Read-across, GLP)		

12.2. Persistence and degradability

Polymer of 4,4'-diisocyanatodiphenylmethane (9016-87-9)		
Persistence and degradability	Not readily biodegradable in water.	
4,4'-diisocyanatodiphenylmethane (101-68-8)		
Persistence and degradability	Not readily biodegradable in water.	
o-(p-isocyanatobenzyl)phenyl isocyanate (5873-54-1)		
Persistence and degradability	Not readily biodegradable in water.	
2,2'-methylenediphenyl diisocyanate (2536-05-2)		
Persistence and degradability	Not readily biodegradable in water.	

12.3. Bioaccumulative potential

Polymer of 4,4'-diisocyanatodiphenylmethane (9016-87-9)		
BCF - Fish [1]	1 (Pisces, Literature study)	
Partition coefficient n-octanol/water (Log Pow)	10.46 (Calculated, KOWWIN)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
4,4'-diisocyanatodiphenylmethane (101-68-8)		
BCF - Fish [1]	92 – 200 (OECD 305: Bioconcentration: Flow-Through Fish Test, 4 week(s), Cyprinus carpio, Flow-through system, Fresh water, Experimental value, GLP)	
Partition coefficient n-octanol/water (Log Pow)	4.51 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 22 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	

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o-(p-isocyanatobenzyl)phenyl isocyanate (5873-54-1)			
BCF - Fish [1]	92 – 200 (OECD 305: Bioconcentration: Flow-Through Fish Test, 28 day(s), Cyprinus carpio, Flow-through system, Fresh water, Read-across, GLP)		
Partition coefficient n-octanol/water (Log Pow)	artition coefficient n-octanol/water (Log Pow) 4.51 (Read-across, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 22 °C)		
Bioaccumulative potential Low potential for bioaccumulation (BCF < 500).			
2,2'-methylenediphenyl diisocyanate (2536-05-2)			
BCF - Fish [1]	92 – 200 (OECD 305: Bioconcentration: Flow-Through Fish Test, 28 day(s), Cyprinus carpio, Flow-through system, Fresh water, Read-across, GLP)		
Partition coefficient n-octanol/water (Log Pow)	Partition coefficient n-octanol/water (Log Pow) 5.22 (QSAR, KOWWIN)		
Bioaccumulative potential Low potential for bioaccumulation (BCF < 500).			

12.4. Mobility in soil

Polymer of 4,4'-diisocyanatodiphenylmethane (9016-87-9)			
Partition coefficient n-octanol/water (Log Koc)	9.078 – 10.597 (log Koc, SRC PCKOCWIN v2.0, Calculated value)		
Ecology - soil	Adsorbs into the soil.		
4,4'-diisocyanatodiphenylmethane (101-68-8)			
Surface tension	Data waiving		
Ecology - soil	No (test)data on mobility of the substance available.		
o-(p-isocyanatobenzyl)phenyl isocyanate (5873-54-1)			
Ecology - soil No (test)data on mobility of the substance available.			
2,2'-methylenediphenyl diisocyanate (2536-05-2)			
Ecology - soil	No (test)data on mobility of the substance available.		

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description (DOT) : NA3082 Other regulated substances, liquid, n.o.s. (4,4'-diisocyanatodiphenylmethane), 9, III

UN-No.(DOT) : NA3082

Proper Shipping Name (DOT) : Other regulated substances, liquid, n.o.s.

4,4'-diisocyanatodiphenylmethane

Class (DOT) : 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140

Packing group (DOT) : III - Minor Danger

Hazard labels (DOT) : 9 - Class 9 (Miscellaneous dangerous materials)



DOT Packaging Non Bulk (49 CFR 173.xxx) : 203 DOT Packaging Bulk (49 CFR 173.xxx) : 241

DOT Symbols : D - Proper shipping name for domestic use only, or to and from Canada, G - Identifies PSN

requiring a technical name

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DOT Special Provisions (49 CFR 172.102)

: A189 - Except where the defining criteria of another class or division are met, concentrations of formaldehyde solution: a. With less than 25 percent but not less than 10 percent formaldehyde, must be described as UN3334, Aviation regulated liquid, n.o.s; and b. With less than 10 percent formaldehyde, are not subject to this subchapter.

IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).

T2 - 1.5 178.274(d)(2) Normal...... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

DOT Packaging Exceptions (49 CFR 173.xxx)

DOT Quantity Limitations Passenger aircraft/rail

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : No limit

CFR 175.75)

DOT Vessel Stowage Location

: No limit

: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel.

Other information : No supplementary information available.

Transportation of Dangerous Goods

Not applicable

Transport by sea

Not regulated

Air transport

Not regulated

SECTION 15: Regulatory information

15.1. US Federal regulations

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372

Polymer of 4,4'-diisocyanatodiphenylmethane	CAS-No. 9016-87-9	30 – 50%
4,4'-diisocyanatodiphenylmethane	CAS-No. 101-68-8	10 – 30%

Polymer of 4,4'-diisocyanatodiphenylmethane (9016-87-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313

XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting **EPA TSCA Regulatory Flag** Rule, (40 CFR 711).

4,4'-diisocyanatodiphenylmethane (101-68-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313

Listed on EPA Hazardous Air Pollutant (HAPS)

CERCLA RQ 5000 lb

o-(p-isocyanatobenzyl)phenyl isocyanate (5873-54-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

2,2'-methylenediphenyl diisocyanate (2536-05-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

Polymer of 4,4'-diisocyanatodiphenylmethane (9016-87-9)

Listed on the Canadian DSL (Domestic Substances List)

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4 4'-diisoc	vanatodinhe	nvlmethane	(101-68-8)
4,4 -ulisuc	vanatuunnie	IIVIIIIeulalie	1101-00-01

Listed on the Canadian DSL (Domestic Substances List)

o-(p-isocyanatobenzyl)phenyl isocyanate (5873-54-1)

Listed on the Canadian DSL (Domestic Substances List)

2,2'-methylenediphenyl diisocyanate (2536-05-2)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

Contains no REACH candidate substance

National regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Component	State or local regulations
Polymer of 4,4'-diisocyanatodiphenylmethane(9016-87-9)	U.S New Jersey - Right to Know Hazardous Substance List
4,4'-diisocyanatodiphenylmethane(101-68-8)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full text of H-phrases:

H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H332	Harmful if inhaled
H334	May cause an allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H373	May cause damage to organs through prolonged or repeated exposure

NFPA health hazard

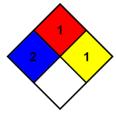
: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA fire hazard

: 1 - Materials that must be preheated before ignition can occur.

NFPA reactivity

: 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.



Hazard Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids,

solids and semi solids having a flash point above 200 F. (Class IIIB)

Physical

: 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

SDS US - ResinLab

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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