

UR3005 Clear A Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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AN ELLSWORTH ADHESIVES COMPANY 🙆

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Version: 1.1

SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Product name	: UR3005 Clear A
1.2. Recommended use and restri	ictions 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.cor	
1.4. Emergency telephone numbe	ər
Emergency number	: CHEMTREC:1-800-424-9300 (USA); +1 703-527-3887 (International)
SECTION 2: Hazard(s) identific	
2.1. Classification of the substand	ce or mixture
GHS US classification Acute toxicity (inhalation:dust,mist) Cate	egory 4 H332 Harmful if inhaled
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 ex Respiratory tract irritation	 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317 May cause an allergic skin reaction
2.2. GHS Label elements, includir GHS US labeling	ng precautionary statements
Hazard pictograms (GHS US)	
Signal word (GHS US)	Danger
	: H315 - Causes skin irritation
Hazard statements (GHS US)	 H313 - Gauses skin initiation H319 - Causes serious eye irritation H319 - Causes serious eye irritation H332 - Harmful if inhaled H334 - May cause 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

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

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	%
Diundecyl phthalate (DUP)	(CAS-No.) 3648-20-2	30 - 50
Isocyanic acid, polymethylenepolyphenylene ester	(CAS-No.) 9016-87-9	30 – 50
4,4'-diisocyanatodiphenylmethane	(CAS-No.) 101-68-8	10 – 30
o-(p-isocyanatobenzyl)phenyl isocyanate	(CAS-No.) 5873-54-1	1 – 5
2,2'-methylenediphenyl diisocyanate	(CAS-No.) 2536-05-2	0.1 – 0.5

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.		
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.		
4.2. Most important symptoms and effects (acute and delayed)			
Symptoms/effects after inhalation	: May cause respiratory irritation. May cause 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.		

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

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SECTION 5: Fire-fighting measures		
5.1. Suitable (and unsuitable) extinguishing media		
(,)	: Water spray. Dry powder. Foam. Carbon dioxide.	
Suitable extinguishing media Unsuitable extinguishing media	 Water spray. Dry powder, Foarn, 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 che	emical	
Hazardous decomposition products in case of fire	: Toxic fumes may be released	
5.3. Special protective equipment and pre	ecautions 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 meas	ures	
6.1. Personal precautions, protective equ	ipment 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 eyes.	
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.		
6.3. Methods and material for containment	it 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 Tergitol.	
Other information	: Dispose of materials or solid residues at an authorized site.	
6.4. Reference to other sections		
For further information refer to section 13.		
SECTION 7: Handling and storage		
7.1. 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.	
7.2. Conditions for safe storage, including	g any incompatibilities	
Storage conditions	: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.	

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)		
Not applicable		
4,4'-diisocyanatodiphenylmethane (101-68-8)		
ACGIH	Local name	Methylene bisphenyl isocyanate (MDI)
ACGIH	ACGIH OEL TWA	0.005 ppm
ACGIH	Remark (ACGIH)	TLV® Basis: Resp sens
ACGIH	Regulatory reference	ACGIH 2024
OSHA	OSHA PEL (Ceiling)	0.2 mg/m ³

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4,4'-diisocyanatodiphenylmethane (101-68-8)		
OSHA	OSHA PEL (Ceiling)	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)		
Not applicable		
Diundecyl phthalate (DUP) (3648-20-2)		
Not applicable		

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:

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 recommended.

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: Amber
Odor	: characteristic
Odor threshold	: No data available
pH	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: > 208 °C
Flash point	: > 198 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Density	: 1.11 g/cm³
Solubility	: No data available
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Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
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.

ECTION 11: Toxicological int	formation
I.1. Information on toxicological	effects
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Inhalation:dust,mist: Harmful if inhaled.
ATE US (dust, mist)	2.574 mg/l/4h
Isocyanic acid, polymethylenepoly	phenylene ester (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	> 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))
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 isoc	yanate (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	387 mg/m ³ 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
2,2'-methylenediphenyl diisocyana	ite (2536-05-2)
LD50 oral rat	> 5000 mg/kg body weight (Rat, Read-across, Oral, 15 day(s))
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2,2'-methylenediphenyl diisocyanate (2	
LD50 dermal rabbit	> 9400 mg/kg body weight (24 h, Rabbit, Male / female, Read-across, Dermal, 14 day(s))
LC50 Inhalation - Rat	0.53 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male, Experimental value, Inhalation (dust))
ATE US (gases)	4500 ppmV/4h
ATE US (vapors)	11 mg/l/4h
ATE US (dust, mist)	1.5 mg/l/4h
Diundecyl phthalate (DUP) (3648-20-2)	
LD50 oral rat	> 15800 mg/kg (Rat, Oral)
LD50 dermal rat	 > 2000 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 402
	(Acute Dermal Toxicity)
LD50 dermal rabbit	> 7900 mg/kg (Rabbit, Dermal)
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an
	allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Isocyanic acid, polymethylenepolypher	iylene ester (9016-87-9)
IARC group	3 - Not classifiable
4,4'-diisocyanatodiphenylmethane (101	-68-8)
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause respiratory irritation.
Isocyanic acid, polymethylenepolypher	ıylene ester (9016-87-9)
STOT-single exposure	May cause respiratory irritation.
4.4 dije e venete din henvlmethene (404	C0 0)
4,4'-diisocyanatodiphenylmethane (101 STOT-single exposure	May cause respiratory irritation.
o-(p-isocyanatobenzyl)phenyl isocyana	ite (5873-54-1)
STOT-single exposure	May cause respiratory irritation.
2,2'-methylenediphenyl diisocyanate (2	536-05-2)
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.
Isocyanic acid, polymethylenepolypher	ıylene ester (9016-87-9)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
4,4'-diisocyanatodiphenylmethane (101	-68-8)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
· ·	
o-(p-isocyanatobenzyl)phenyl isocyana	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
2,2'-methylenediphenyl diisocyanate (2	536-05-2)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Diversional relation (DUD) (2040-20-2)	
Diundecyl phthalate (DUP) (3648-20-2) LOAEL (oral.rat.90 days)	500 mg///g hady weight Animaly sat Animal apy, mala, Cuidaling, OECD, Cuidaling, 407
LOAEL (oral, rat, 90 days)	500 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)
Aspiration hazard	: Not classified
Symptoms/effects after inhalation	: May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficultie if inhaled.
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Eye irritation.
	-
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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

12.1. Toxicity

Ecology - general

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

Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)			
LC50 - Other aquatic organisms [1]	> 1000 mg/l (96 h, Literature study)		
4,4'-diisocyanatodiphenylmethane (101-68-8)			
NOEC (chronic)	≥ 10 mg/l Test organisms (species): Daphnia magna Duration: '21 d'		
o-(p-isocyanatobenzyl)phenyl isocyanate (587	o-(p-isocyanatobenzyl)phenyl isocyanate (5873-54-1)		
LC50 - Fish [1]	> 1000 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system, Fresh water, Read-across, Nominal concentration)		
EC50 - Crustacea [1]	> 1000 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 24 h, Daphnia magna, Static system, Fresh water, Read-across, Locomotor effect)		
ErC50 algae	> 1640 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Read-across, GLP)		
NOEC (chronic)	≥ 10 mg/l Test organisms (species): Daphnia magna Duration: '21 d'		
2,2'-methylenediphenyl diisocyanate (2536-05-2)			
LC50 - Fish [1]	> 100 mg/l (96 h, Pisces, Fresh water, Read-across)		
NOEC (chronic)	≥ 10 mg/l Test organisms (species): Daphnia magna Duration: '21 d'		
Diundecyl phthalate (DUP) (3648-20-2)			
EC50 - Crustacea [1]	> 0.02 mg/l Test organisms (species): Daphnia magna		
NOEC (chronic)	0.059 mg/l Test organisms (species): Daphnia magna Duration: '21 d'		
NOEC chronic fish	0.3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '155 d'		

12.2. Persistence and degradability

Isocyanic acid, polymethylenepolyphenylene ester (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.	
Diundecyl phthalate (DUP) (3648-20-2)		
Persistence and degradability	Biodegradability in soil: no data available. Biodegradable in water.	

12.3. Bioaccumulative potential

Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)		
BCF - Fish [1]	268 l/kg (BCFBAF v3.01, Estimated value, Fresh weight)	
Partition coefficient n-octanol/water (Log Pow)	10 (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, 28 day(s), Cyprinus carpio, Flow-through system, Fresh water, Experimental value, GLP)	
Partition coefficient n-octanol/water (Log Pow)	4.5 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 22 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
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)	4.5 (Read-across, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 22 °C)	

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o-(p-isocyanatobenzyl)phenyl isocyanate (5873-54-1)		
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)	
Partition coefficient n-octanol/water (Log Pow)	5.22 (QSAR, KOWWIN)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
Diundecyl phthalate (DUP) (3648-20-2)		
Partition coefficient n-octanol/water (Log Pow)	4.95 – 12.1	
Bioaccumulative potential	Bioaccumable.	

12.4. Mobility in soil

Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)		
Surface tension	No data available in the literature	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	9.1 – 11 (log Koc, SRC PCKOCWIN v2.0, Calculated value)	
Ecology - soil	Adsorbs into the soil.	
4,4'-diisocyanatodiphenylmethane (101-68-8)		
Surface tension	No data available in the literature	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	4.5 – 5.5 (log Koc, SRC PCKOCWIN v2.0, Calculated value)	
Ecology - soil	Adsorbs into the soil.	
o-(p-isocyanatobenzyl)phenyl isocyanate (5873-54-1)		
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	4.5 – 5.5 (log Koc, SRC PCKOCWIN v2.0, Calculated value)	
Ecology - soil	Adsorbs into the soil.	
2,2'-methylenediphenyl diisocyanate (2536-05-2)		
Surface tension	No data available in the literature	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	4.5 (log Koc, SRC PCKOCWIN v2.0, Calculated value)	
Ecology - soil	Adsorbs into the soil.	

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal consideration	15
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) UN-No.(DOT)	: NA3082 Other regulated substances, liquid, n.o.s. (4,4'-diisocyanatodiphenylmethane), 9, III : 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

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Hazard labels (DOT)	: 9 - Class 9 (Misc	ellaneous dangerous materials)	
	9		
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203		
DOT Packaging Bulk (49 CFR 173.xxx)	: 241		
DOT Symbols	: D - Proper shipp requiring a techn		or to and from Canada,G - Identifies PSN
DOT Special Provisions (49 CFR 172.102)	formaldehyde so must be describe formaldehyde, ar IB3 - Authorized (31HZ1 and 31H with a vapor pres C (1.3 bar at 131 2 for UN2672). T2 - 1.5 178.274 TP1 - The maxin following: Degree	lution: a. With less than 25 perce ad as UN3334, Aviation regulated e not subject to this subchapter. IBCs: Metal (31A, 31B and 31N) A2, 31HB2, 31HN2, 31HD2 and ssure less than or equal to 110 k F) are authorized, except for UN (d)(2) Normal); Rigid plastics (31H1 and 31H2); Composite 31HH2). Additional Requirement: Only liquids Pa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 N2672 (also see Special Provision IP8 in Table
DOT Packaging Exceptions (49 CFR 173.xxx)	: 155	1 3	1 3 5
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: No limit		
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: No limit		
DOT Vessel Stowage Location	: A - The material passenger vesse	5	nder deck" on a cargo vessel and on a
Other information	: No supplementa	ry information available.	
Transportation of Dangerous Goods			
Not applicable			
Transport by sea			
Not regulated			
Air transport			
Not regulated			
SECTION 15: Regulatory information			
5.1. US Federal regulations			
Chemical(s) subject to the reporting requirement 1986 and 40 CFR Part 372.	ts of Section 313 or	Title III of the Superfund Amend	ments and Reauthorization Act (SARA) of
Isocyanic acid, polymethylenepolyphenylene es	ter	CAS-No. 9016-87-9	30 – 50%
4,4'-diisocyanatodiphenylmethane		CAS-No. 101-68-8	10 – 30%
Isocyanic acid, polymethylenepolyphenylen	. ,		
Listed on the United States TSCA (Toxic Subst Subject to reporting requirements of United Sta			
EPA TSCA Regulatory Flag	XU - XU - indicat Rule, (40 CFR 7		porting under the Chemical Data Reporting
4,4'-diisocyanatodiphenylmethane (101-68-8			
Subject to reporting requirements of United Sta Listed on EPA Hazardous Air Pollutant (HAPS)	tes SARA Section 3	13	
CERCLA RQ	5000 lb		

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

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2,2'-methylenediphenyl diisocyanate (2536-05-2)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Diundecyl phthalate (DUP) (3648-20-2)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)
Listed on the Canadian DSL (Domestic Substances List)
4,4'-diisocyanatodiphenylmethane (101-68-8)
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)
Diundecyl phthalate (DUP) (3648-20-2)
Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

Contains no substance(s) listed on the REACH Candidate List

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

Listed on the EEC inventory EINECS (European	Inventory of Existing Commercial Chemical Substances)
	, , ,

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

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

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

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Diundecyl phthalate (DUP) (3648-20-2)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

- Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
- Listed on KECL/KECI (Korean Existing Chemicals Inventory)
- Listed on NZIoC (New Zealand Inventory of Chemicals)
- Listed on INSQ (Mexican National Inventory of Chemical Substances)
- Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

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

- Listed on the United States TSCA (Toxic Substances Control Act) inventory Status: Active
- Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on KECL/KECI (Korean Existing Chemicals Inventory)
- Listed on NZIOC (New Zealand Inventory of Chemicals)
- Listed on INSQ (Mexican National Inventory of Chemical Substances)
- Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

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

- Listed on the United States TSCA (Toxic Substances Control Act) inventory Status: Active
- Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
- Listed on KECL/KECI (Korean Existing Chemicals Inventory) Listed on NZIoC (New Zealand Inventory of Chemicals)
- Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

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

- Listed on the United States TSCA (Toxic Substances Control Act) inventory Status: Active
- Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
- Listed on KECL/KECI (Korean Existing Chemicals Inventory)
- Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

Safety Data Sheet

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Diundecyl phthalate (DUP) (3648-20-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on KECL/KECI (Korean Existing Chemicals Inventory) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

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
Isocyanic acid, polymethylenepolyphenylene ester(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

Revision date

: 04/04/2024

Full text of hazard classes and H-statements:

H315	Causes skin irritation
11313	
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H332	Harmful if inhaled
H334	May cause 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

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.