

Safety Data Sheet

according to 29 CFR 1910.1200(g)

Revision No: 2,13
Revision date: 05/18/2021
Print date: 07/01/2021

US Formliner PUR-Sealant

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1. Identification

Product identifier

US Formliner PUR-Sealant

Recommended use of the chemical and restrictions on use

Use of the substance/mixture

Sealant

Details of the supplier of the safety data sheet

Company name:	US Formliner, Inc.	
Street:	380 Commerce Blvd.	
Place:	USA Athens, GA 30606	
Telephone:	(706) 549-6787	Telefax: (706) 355-9199
e-mail:	info@USFormliner.com	
Contact person:	Brian Drummond	Telephone: (706) 549-6787
e-mail:	brian.drummond@usformliner.com	

Emergency phone number: INFOTRAC - (800) 535-5053 (Continental US); (352) 323-3500 (Outside US)

2. Hazard(s) identification

Classification of the chemical

29 CFR Part 1910.1200

Flammable liquids: Flam. Liq. 3
Acute toxicity: Acute Tox. 4 (inhalation)
Skin corrosion/irritation: Skin Irrit. 2
Serious eye damage/eye irritation: Eye Irrit. 2A
Respiratory or skin sensitization: Resp. Sens. 1
Respiratory or skin sensitization: Skin Sens. 1
Specific target organ toxicity single exposure: STOT SE 3 (narcotic effects)
Specific target organ toxicity single exposure: STOT SE 3 (respiratory tract irritation)
Specific target organ toxicity repeated or prolonged exposure: STOT RE 1
OSHA information: This mixture is classified as hazardous according to 29CFR 1910.1200.

Label elements

29 CFR Part 1910.1200

Signal word: Danger

Pictograms:



Hazard statements

Flammable liquid and vapor
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 drowsiness or dizziness
Causes damage to organs through prolonged or repeated exposure

Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Do not breathe gas/vapor/spray.

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Wear protective gloves and eye/face protection.
In case of inadequate ventilation wear respiratory protection.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
If experiencing respiratory symptoms: Call a poison center/doctor.
Avoid release to the environment.

Hazards not otherwise classified

Further information:
SECTION 12: Ecological information

3. Composition/information on ingredients

Mixtures

Chemical characterization

Mixture of isocyanates. - solventborne

Hazardous components

CAS No	Components	Quantity
1330-20-7	xylene	30 - 40 %
64742-95-6	hydrocarbons, C9, aromatics	10 - 15 %
54839-24-6	2-ethoxy-1-methylethyl acetate, 2PG1EEA	10 - 15 %
9016-87-9	diphenylmethanediisocyanate, isomers and homologues	5 - 10 %
101-68-8	4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate	1 - 5 %
5873-54-1	o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate	1 - 5 %
2536-05-2	2,2'-methylenediphenyl diisocyanate; diphenylmethane-2,2'-diisocyanate	0.1 - 1 %
4083-64-1	4-isocyanatosulphonyltoluene, tosyl isocyanate	0.1 - 1 %

Further Information

The hazardous components' concentrations are given in ranges due to the variability of the product's constitution.

4. First-aid measures

Description of first aid measures

General information

Move victim out of danger zone. First aider: Pay attention to self-protection!
Change contaminated, saturated clothing. Do not leave affected person unattended.

After inhalation

Remove casualty to fresh air and keep warm and at rest.
Call a physician immediately. If breathing is irregular or stopped, administer artificial respiration.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap.
In case of skin reactions, consult a physician.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.
Consult an ophthalmologist.

After ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.
Call a physician immediately.

Most important symptoms and effects, both acute and delayed

The following symptoms may occur: Allergic reactions, Headache, Cough, Nausea, Dizziness, Impaired consciousness, Respiratory complaints, Pulmonary oedema.

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Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Foam, Water mist, Carbon dioxide (CO₂), Extinguishing powder.
Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

Full water jet.

Specific hazards arising from the chemical

Flammable. Vapors may form explosive mixtures with air.

In case of fire may be liberated: Carbon dioxide (CO₂), Carbon monoxide (CO), Nitrogen oxides (NO_x), Hydrogen cyanide (hydrocyanic acid). Burning produces heavy smoke. Vapors are heavier than air. Reignition possible over considerable distance.

Special protective equipment and precautions for fire-fighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Use water spray/stream to protect personnel and to cool endangered containers. Suppress gases/vapors/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Additional information

Flammability classification (NFPA 704): IC

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

General measures

Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/vapor. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

Methods and material for containment and cleaning up

For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Other information

Treat the recovered material as prescribed in the section on waste disposal.

Reference to other sections

Safe handling: see section 7

Personal protection equipment (PPE): see section 8

Disposal: see section 13

7. Handling and storage

Precautions for safe handling

Advice on safe handling

Provide adequate ventilation. Do not breathe mist/vapors/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.
Vapors may form explosive mixtures with air.

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Advice on general occupational hygiene

Change contaminated, saturated clothing. Draw up and observe skin protection programme. Wash hands before breaks and after work. When using do not eat or drink.

Further information on handling

Additional information: See section 8.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. The floor should be leak tight, jointless and not absorbent.

Hints on joint storage

Do not store together with: Pyrophoric or self-heating substances, Oxidising agent.
Keep away from food, drink and animal feedings.

8. Exposure controls/personal protection

Control parameters

Exposure limits

CAS No.	Substance	ppm	mg/m ³	f/cc	Category	Origin
101-68-8	Methylene bisphenyl isocyanate (MDI)	C 0.02	C 0.2		Ceiling	PEL
101-68-8	Methylene bisphenyl isocyanate	0.005	0.05		TWA (8 h)	REL
		C 0.02	C 0.2		Ceiling	REL
1330-20-7	Xylenes (o-,m-,p-isomers)	100	435		TWA (8 h)	PEL

Exposure controls



Appropriate engineering controls

Provide adequate ventilation. If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

Individual protection measures, such as personal protective equipment

Eye/face protection

Tightly sealed safety glasses.

Hand protection

Suitable gloves type Gloves with long cuffs.

Suitable material:

- NBR (Nitrile rubber)

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Skin protection

Wear anti-static footwear and clothing

Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Environmental exposure controls

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

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9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state:	Liquid
Color:	brown
Odor:	like: hydrocarbons, aromatic.
Odour threshold:	No information available.

Test method

Changes in the physical state

Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	138 - 170 °C
Flash point:	30 °C

Flammability

Solid/liquid:	not applicable
Gas:	not applicable

Explosive properties

Vapors may form explosive mixtures with air.

Lower explosion limits:	1,0 vol. %
Upper explosion limits:	9,8 vol. %
Auto-ignition temperature:	335 °C

Self-ignition temperature

Solid:	not applicable
Gas:	not applicable

Decomposition temperature:	not determined
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Oxidizing properties

Not oxidising.

pH-Value:	not determined
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Viscosity / dynamic: (at 21 °C)	50 mPa·s ISO 2555
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Water solubility: (at 21 °C)	Immiscible
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Solubility in other solvents

not determined

Partition coefficient n-octanol/water:	not determined
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Vapor pressure: (at 20 °C)	9 hPa calculated
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Density (at 20 °C):	1,00 g/cm ³ ISO 2811
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Relative vapour density:	not determined
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Other information

Other safety characteristics

Solvent content:	59 %
Solid content:	41 %

Further Information

No further relevant information available.

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10. Stability and reactivity

Reactivity

Ignition hazard.
Contains: Isocyanates.

Chemical stability

Stability: Stable
The product is stable under storage at normal ambient temperatures.

Possibility of hazardous reactions

Hazardous reactions: Will not occur
Vapors may form explosive mixtures with air.

Conditions to avoid

Keep away from heat. Protect from direct sunlight.
Take precautionary measures against static discharges.

Incompatible materials

Oxidising agent, Acid, Amines, Alcohols, Water.

Hazardous decomposition products

Hydrogen cyanide (hydrocyanic acid), Isocyanate.

11. Toxicological information

Information on toxicological effects

Route(s) of Entry

Inhalation: Yes. Skin contact: Yes. Eye contact: Yes. Ingestion: Yes.

Toxicokinetics, metabolism and distribution

It can take hours before symptoms of poisoning show up following exposure.

Acute toxicity

Harmful if inhaled

ATEmix calculated

ATE (inhalation aerosol) 3,224 mg/l

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CAS No	Components				
	Exposure route	Dose	Species	Source	Method
1330-20-7	xylene				
	oral	LD50 4300 mg/kg	Rat	GESTIS	
	dermal	LD50 1700 mg/kg	Rabbit	GESTIS	
	inhalation (4 h) vapour	LC50 27,1 mg/l	Rat	ECHA	
	inhalation aerosol	ATE 1,5 mg/l			
64742-95-6	hydrocarbons, C9, aromatics				
	oral	LD50 3592 mg/kg	Rat	MSDS	
	dermal	LD50 > 3160 mg/kg	Rabbit	MSDS	
54839-24-6	2-ethoxy-1-methylethyl acetate, 2PG1EEA				
	oral	LD50 > 5000 mg/kg	Rat	ECHA	OECD 401
9016-87-9	diphenylmethanediisocyanate, isomers and homologues				
	oral	LD50 > 10000 mg/kg	Rat	MSDS	OECD 401
	dermal	LD50 > 9400 mg/kg	Rabbit	MSDS	OECD 402
	inhalation vapour	ATE 11 mg/l			
	inhalation (4 h) aerosol	LC50 1,5 mg/l		MSDS	
101-68-8	4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate				
	oral	LD50 > 2000 mg/kg	Rat	MSDS	
	dermal	LD50 > 9400 mg/kg	Rabbit	MSDS	OECD 402
	inhalation vapour	ATE 11 mg/l			
	inhalation (4 h) aerosol	LC50 1,5 mg/l		MSDS	
5873-54-1	o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate				
	oral	LD50 > 2000 mg/kg	Rat	MSDS	
	dermal	LD50 > 9400 mg/kg	Rabbit	MSDS	OECD 402
	inhalation vapour	ATE 11 mg/l			
	inhalation (4 h) aerosol	LC50 1,5 mg/l		MSDS	
2536-05-2	2,2'-methylenediphenyl diisocyanate; diphenylmethane-2,2'-diisocyanate				
	oral	LD50 > 2000 mg/kg	Rat	MSDS	
	dermal	LD50 > 9400 mg/kg	Rabbit	MSDS	OECD 402
	inhalation vapour	ATE 11 mg/l			
	inhalation (4 h) aerosol	LC50 1,5 mg/l		MSDS	
4083-64-1	4-isocyanatosulphonyltoluene, tosyl isocyanate				
	oral	LD50 2330 mg/kg	Rat	ECHA	OECD 401
	dermal	LD50 > 2000 mg/kg	Rat	ECHA	OECD 402

Irritation and corrosivity

- Causes skin irritation
- Causes serious eye irritation

Sensitizing effects

May cause allergy or asthma symptoms or breathing difficulties if inhaled (diphenylmethanediisocyanate, isomers and homologues; 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate; o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; 2,2'-methylenediphenyl diisocyanate; diphenylmethane-2,2'-diisocyanate; 4-isocyanatosulphonyltoluene, tosyl isocyanate)

May cause an allergic skin reaction (diphenylmethanediisocyanate, isomers and homologues; 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate; o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; 2,2'-methylenediphenyl diisocyanate; diphenylmethane-2,2'-diisocyanate)

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Carcinogenic/mutagenic/toxic effects for reproduction

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

Specific target organ toxicity (STOT) - single exposure

May cause respiratory irritation (xylene)

May cause drowsiness or dizziness

Specific target organ toxicity (STOT) - repeated exposure

Causes damage to organs through prolonged or repeated exposure (diphenylmethanediisocyanate, isomers and homologues; 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate; o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate)

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): Xylenes (CAS 1330-20-7) is listed in group 3. Polymethylene polyphenyl isocyanate (CAS 9016-87-9) is listed in group 3. 4,4'-Methylenediphenyl diisocyanate (CAS 101-68-8) is listed in group 3.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

Aspiration hazard

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

Information on other hazards

Other information

No further relevant information available.

Further information

Classification for mixtures and used evaluation method according to regulation 29 CFR 1910.1200. There are no data available on the preparation/mixture itself.

12. Ecological information

Ecotoxicity

Harmful to aquatic life with long lasting effects.

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CAS No	Components						
Aquatic toxicity		Dose		[h] [d]	Species	Source	Method
1330-20-7	xylene						
Acute fish toxicity		LC50	16,9 mg/l	96 h	Carassius auratus (goldfish)	MSDS	
Acute crustacea toxicity		EC50	8,5 mg/l	48 h		GESTIS	
64742-95-6	hydrocarbons, C9, aromatics						
Acute fish toxicity		LC50	9,2 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	MSDS	
Acute algae toxicity		ErC50	2,6 - 2,9 mg/l	72 h	Pseudokirchneriella subcapitata	MSDS	
Acute crustacea toxicity		EC50	3,2 mg/l	48 h	Daphnia magna	MSDS	
9016-87-9	diphenylmethanediisocyanate, isomers and homologues						
Acute fish toxicity		LC50	> 1000 mg/l	96 h	Danio rerio (zebrafish)	MSDS	OECD 203
Acute algae toxicity		ErC50	> 1640 mg/l	72 h	Scenedesmus subspicatus	MSDS	OECD 201
Acute crustacea toxicity		EC50	> 1000 mg/l	48 h	Daphnia magna	MSDS	OECD 202
Crustacea toxicity		NOEC	> 10 mg/l	21 d	Daphnia magna	MSDS	OECD 202
Acute bacteria toxicity		(> 100 mg/l)		3 h	Activated sludge	MSDS	OECD 209
101-68-8	4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate						
Acute fish toxicity		LC50	> 1000 mg/l	96 h	Danio rerio (zebrafish)	MSDS	OECD 203
Acute algae toxicity		ErC50	> 1640 mg/l	72 h	Scenedesmus subspicatus	MSDS	OECD 201
Acute crustacea toxicity		EC50	> 1000 mg/l	48 h	Daphnia magna	MSDS	OECD 202
Crustacea toxicity		NOEC	> 10 mg/l	21 d	Daphnia magna	MSDS	OECD 202
Acute bacteria toxicity		(> 100 mg/l)		3 h	Activated sludge	MSDS	OECD 209
5873-54-1	o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate						
Acute fish toxicity		LC50	> 1000 mg/l	96 h	Danio rerio (zebrafish)	MSDS	OECD 203
Acute algae toxicity		ErC50	> 1640 mg/l	72 h	Scenedesmus subspicatus	MSDS	OECD 201
Acute crustacea toxicity		EC50	> 1000 mg/l	48 h	Daphnia magna	MSDS	OECD 202
Crustacea toxicity		NOEC	> 10 mg/l	21 d	Daphnia magna	MSDS	OECD 202
Acute bacteria toxicity		(> 100 mg/l)		3 h	Activated sludge	MSDS	OECD 209
2536-05-2	2,2'-methylenediphenyl diisocyanate; diphenylmethane-2,2'-diisocyanate						
Acute fish toxicity		LC50	> 1000 mg/l	96 h	Danio rerio (zebrafish)	MSDS	OECD 203
Acute algae toxicity		ErC50	> 1640 mg/l	72 h	Scenedesmus subspicatus	MSDS	OECD 201
Acute crustacea toxicity		EC50	> 1000 mg/l	48 h	Daphnia magna	MSDS	OECD 202
Crustacea toxicity		NOEC	> 10 mg/l	21 d	Daphnia magna	MSDS	OECD 202
Acute bacteria toxicity		(> 100 mg/l)		3 h	Activated sludge	MSDS	OECD 209
4083-64-1	4-isocyanatosulphonyltoluene, tosyl isocyanate						
Acute algae toxicity		ErC50	30 mg/l	72 h		ECHA	

Persistence and degradability

Some of the components are poorly biodegradable.

Bioaccumulative potential

No information available.

Mobility in soil

No information available.

Endocrine disrupting properties

No information available.

Other adverse effects

No further relevant information available.

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Further information

Classification for mixtures and used evaluation method according to regulation 29 CFR 1910.1200.

There are no data available on the mixture itself. The ecotoxicological properties of this mixture are determined by the ecotoxicological properties of the single components (see section 3).

13. Disposal considerations

Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

Dispose of waste according to applicable legislation.

Contaminated packaging

Handle contaminated packages in the same way as the substance itself. Non-contaminated packages may be recycled.

14. Transport information

US DOT 49 CFR 172.101

UN/ID number:

UN 1993

Proper shipping name:

FLAMMABLE LIQUID, N.O.S. (Xylene (o,m,p), aromatic hydrocarbons)

Transport hazard class(es):

3

Packing group:

III

Hazard label:

3



Marine transport (IMDG)

UN number:

UN 1993

UN proper shipping name:

FLAMMABLE LIQUID, N.O.S. (Xylene (o,m,p), aromatic hydrocarbons)

Transport hazard class(es):

3

Packing group:

III

Hazard label:

3



Marine pollutant:

no

Special Provisions:

223, 274, 955

Limited quantity:

5 L

Excepted quantity:

E1

EmS:

F-E, S-E

Segregation group:

not applicable

Air transport (ICAO-TI/IATA-DGR)

UN number:

UN 1993

UN proper shipping name:

FLAMMABLE LIQUID, N.O.S. (Xylene (o,m,p), aromatic hydrocarbons)

Transport hazard class(es):

3

Packing group:

III

Hazard label:

3

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Special Provisions:	A3	
Limited quantity Passenger:	10 L	
Passenger LQ:	Y344	
Excepted quantity:	E1	
IATA-packing instructions - Passenger:		355
IATA-max. quantity - Passenger:		60 L
IATA-packing instructions - Cargo:		366
IATA-max. quantity - Cargo:		220 L

Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

Special precautions for user

Keep away from food, drink and animal feedingstuffs.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

15. Regulatory information

U.S. Regulations

National Inventory TSCA

All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

National regulatory information

SARA Section 304 CERCLA:

Xylene (mixed isomers) (1330-20-7): Reportable quantity = 100 (45.4) lbs. (kg)

Methylenebis(phenylisocyanate)(MDI) (101-68-8): Reportable quantity = 5,000 (2270) lbs. (kg)

SARA Section 311/312 Hazards:

Xylene (mixed isomers) (1330-20-7): Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard

hydrocarbons, C9, aromatics (64742-95-6): Fire hazard, Immediate (acute) health hazard

2-ethoxy-1-methylethyl acetate, 2PG1EEA (54839-24-6): Fire hazard, Immediate (acute) health hazard

Polymeric diphenylmethane diisocyanate (9016-87-9): Immediate (acute) health hazard, Delayed (chronic) health hazard

Methylenebis(phenylisocyanate)(MDI) (101-68-8): Immediate (acute) health hazard, Delayed (chronic) health hazard

o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate (5873-54-1): Immediate (acute) health hazard, Delayed (chronic) health hazard

2,2'-methylenediphenyl diisocyanate; diphenylmethane-2,2'-diisocyanate (2536-05-2): Immediate (acute) health hazard, Delayed (chronic) health hazard

4-isocyanatosulphonyltoluene, tosyl isocyanate (4083-64-1): Immediate (acute) health hazard

SARA Section 313 Toxic release inventory:

Xylene (mixed isomers) (1330-20-7): De minimis limit = 1.0 %, Reportable threshold = Standard

Polymeric diphenylmethane diisocyanate (9016-87-9): De minimis limit = 1.0 %, Reportable threshold = Standard

Methylenebis(phenylisocyanate)(MDI) (101-68-8): De minimis limit = 1.0 %, Reportable threshold = Standard

Clean Air Act Section 112(b):

Xylene (mixed isomers) (1330-20-7), Methylenebis(phenylisocyanate)(MDI) (101-68-8)

State Regulations

Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

WARNING: This product can expose you to chemicals including Ethylbenzene (cancer), which are known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to

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www.P65Warnings.ca.gov.

Additional information

Entries in the "State Right to Know" Lists:

- xylene (CAS 1330-20-7): CA, FL, MA, MI, MN, NJ, PA, RI.
- ethylbenzene (CAS 100-41-49): FL, MA, MN, NJ, PA.
- Methylenebis(phenylisocyanate) (CAS 101-68-8): CA, FL, MA, MN, NJ, PA, RI.
- Diphenylmethane-2,4'-diisocyanate (CAS 5873-54-1): MN, NJ.
- Diphenylmethane-2,2'-diisocyanate (CAS 2536-05-2): MN, NJ.
- Polymeric diphenylmethane diisocyanate (CAS 9016-87-9): MN, NJ.

EU regulatory information

2004/42/EC (VOC):

VOC-value: 590 g/L (59 %)

16. Other information

Hazardous Materials Information Label (HMIS)

Health: *2
Flammability: 3
Physical Hazard: 1
Personal Protection: B

NFPA Hazard Ratings

Health: 2
Flammability: 3
Reactivity: 1
Unique Hazard:



Changes

Revision date: 05/18/2021

Revision No: 2,13

This data sheet contains changes from the previous version in section(s): 1,3,4,5,6,9,11,12,14,15,16.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
ATE: acute toxicity estimates
ECHA: european chemicals agency
(<http://echa.europa.eu/information-on-chemicals>)
GESTIS: Gefahrstoffinformationssystem der Deutschen Gesetzlichen Unfallversicherung
(<http://dguv.de/ifa/GESTIS/GESTIS-Stoffdatenbank/index.jsp>)
MSDS:
The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.

Other data

The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.