



Safety Data Sheet according to GB/T 16483 and GB/T 17519

LOCTITE PC 7350 400ML PT B

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Material No.: 2320555

V001.4

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1. Identification of the substance/preparation and of the company/undertaking

Product name: LOCTITE PC 7350 400ML PT B

Intended use: 2-Component polyurethane adhesive

Manufacturer/Importer/Distributor Representative Company

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Chemical Accidents:

2. Hazards identification

EMERGENCY OVERVIEW:

Amber, Mild, liquid, 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. Suspected of causing cancer. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure.

Classification of the substance or mixture according to GB 30000.1 (Specification for classification and labelling of chemicals—Part 1 : General rules):

<u>Hazard Class</u>	<u>Hazard Category</u>	<u>Route of Exposure</u>	<u>Target organ</u>
Acute toxicity	Category 4	Inhalation	
Skin corrosion/irritation	Category 2		
Serious eye damage/eye irritation	Category 2A		
Respiratory sensitizer	Category 1		
Skin sensitizer	Category 1		
Carcinogenicity	Category 2		
Specific target organ toxicity - single exposure	Category 3		respiratory tract irritation
Specific target organ toxicity - repeated exposure	Category 2		Respiratory system

Label elements according to GB 15258 (General rules for preparation of precautionary label for chemicals):

Hazard pictogram:



Signal word:

Danger

Hazard statement:	H315 Causes skin irritation. 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. H351 Suspected of causing cancer. H373 May cause damage to organs through prolonged or repeated exposure.
Prevention:	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash hands thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing should 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.
Response:	P302+P352 IF ON SKIN: Wash with plenty of water. P304+P340+P312 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. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 IF exposed or concerned: Get medical advice/attention. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse.
Storage:	P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.
Disposal:	P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Physical and chemical hazards:

Based on current information, there are no physical or chemical hazards.

Health hazards:

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. Suspected of causing cancer. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure.

Environmental hazards:

Based on current information, there are no environmental hazards.

3. Composition / information on ingredients
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Substance or Mixture:

Mixture

Declaration of the ingredients according to GB 30000.1:

Hazard component CAS-No.	Content	GHS Classification
4,4'- methylenediphenyl diisocyanate 101-68-8	20- < 30 %	Acute toxicity 4; Inhalation H332 Skin corrosion/irritation 2 H315 Serious eye damage/eye irritation 2A H319 Respiratory sensitizer 1 H334 Skin sensitizer 1 H317 Carcinogenicity 2 H351 Specific target organ toxicity - single exposure 3 H335 Specific target organ toxicity - repeated exposure 2 H373
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	10- < 20 %	Acute toxicity 4; Inhalation H332 Skin corrosion/irritation 2 H315 Serious eye damage/eye irritation 2A H319 Respiratory sensitizer 1 H334 Skin sensitizer 1 H317 Carcinogenicity 2 H351 Specific target organ toxicity - single exposure 3 H335 Specific target organ toxicity - repeated exposure 2 H373
methylenediphenyl diisocyanate 26447-40-5	5- < 10 %	Acute toxicity 4; Inhalation H332 Skin corrosion/irritation 2 H315 Serious eye damage/eye irritation 2A H319 Respiratory sensitizer 1 H334 Skin sensitizer 1 H317 Carcinogenicity 2 H351 Specific target organ toxicity - single exposure 3 H335 Specific target organ toxicity - repeated exposure 2; Inhalation H373
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1	0.1- < 1 %	Acute toxicity 4; Inhalation H332 Skin corrosion/irritation 2 H315 Serious eye damage/eye irritation 2A H319 Respiratory sensitizer 1 H334 Skin sensitizer 1 H317 Carcinogenicity 2 H351 Specific target organ toxicity - single exposure 3 H335 Specific target organ toxicity - repeated exposure 2 H373

Only hazardous ingredients for which a classification according to GB 30000.1 is already available are displayed in this table. For full text of the Hazard statements see section 16 "Other information".

4. First aid measures

Description of necessary first-aid measures:

Skin contact:	Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and footwear. For severe exposures, get under safety shower after removing clothing, then get medical attention. For lesser exposure, seek medical attention if irritation develops or persists after area is washed. Wash clothing before reuse.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Inhalation:	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Asthmatic-type symptoms may develop and may be immediate or delayed up to several hours. Get medical attention.
Ingestion:	Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.
Most important symptoms/effects, acute and delayed:	The most important known symptoms and effects are described in chapters 2 and/or 11.
Indication of any immediate medical attention and special treatment needed, if necessary:	Post-exposure treatment should focus on controlling the patient's clinical symptoms and signs.

5. Fire fighting measures

Suitable extinguishing media:	Foam, dry chemical or carbon dioxide.
Fire-fighting method:	Do not store or use near heat, spark, open flame or other sources of ignition.
Special hazards arising from the substance or mixture:	Oxides of carbon. Oxides of nitrogen. Isocyanates. Tetrahydrofuran. Toxic fumes.
Special protective actions for fire-fighters:	Sealed containers at elevated temperatures or contaminated with water may rupture explosively. Do not allow run-off from fire fighting to enter drains or water courses. Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. During a fire, MDI vapors and other irritating, highly toxic gases may be generated by thermal decomposition or combustion. At temperatures above 204.4°C (400°F), polymeric MDI can polymerize and decompose which can cause pressure build-up in closed containers. Explosive rupture is possible.

6. Accidental release measures

Environmental precautions:	Do not allow product to enter sewer or waterways.
Methods and materials for containment and cleaning up:	<p>Remove all sources of ignition.</p> <p>Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment during clean-up.</p> <p>Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up.</p> <p>If temporary control of isocyanate vapor is required, a blanket of protein foam (available at most fire departments) may be placed over spill.</p> <p>Large quantities may be pumped into closed, but not sealed containers for disposal.</p> <p>For minor spills, absorb isocyanates with sawdust or other absorbent, shovel into suitable unsealed containers, transport to well ventilated area (outside) and treat with neutralizing solution: mixture of 80% water and 20% non-ionic surfactant Tergitol TMN-10; or 90% water, 3-8% concentrated ammonia and 2% detergent.</p> <p>Add about ten parts of neutralizer per part of isocyanate, with mixing.</p> <p>Allow to stand uncovered for 48 hours to let carbon dioxide escape.</p> <p>Decontaminate floor with decontamination solution letting stand for at least 15 minutes.</p>

7. Handling and storage

Precautions for safe handling:	<p>Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling.</p> <p>Exposure to vapors of heated MDI can be extremely dangerous.</p> <p>Use only with adequate ventilation.</p> <p>Protect from moisture.</p> <p>Keep container closed.</p> <p>Employee education and training in the safe use and handling of this compound are required under the OSHA Hazard Communication Standard.</p> <p>Refer to Section 8.</p>
Hygiene measures:	<p>Do not eat, drink, smoke or take snuff while working.</p> <p>Wash thoroughly after handling.</p> <p>Keep absolute tidiness at the working place. Avoid contact with skin and eyes. Remove soiled or soaked clothing immediately. Wash off any contamination that gets onto the skin with plenty of water and soap, skin care.</p>
Conditions for safe storage, including any incompatibilities:	Store in sealed original container.

8. Exposure controls / personal protection

Controls parameters:

Occupational Exposure Limits:

Hazardous components CAS-No.	GBZ 2.1-2019	ACGIH	NIOSH	OSHA
4,4'-methylenediphenyl diisocyanate 101-68-8	0.05 mg/m ³ PC-TWA 0.1 mg/m ³ PC-STEL	0.005 ppm TWA	none	none

Biological Exposure Indices: no data available

Engineering controls: Local exhaust should be used to maintain levels below the TLV whenever MDI is processed, heated or spray applied.
Standard reference sources regarding industrial ventilation (i.e., ACGIH Industrial Ventilation) should be consulted for guidance about adequate ventilation.
Air monitoring:
Monitoring of airborne isocyanates in the breathing zone of individuals should become part of the overall employee exposure characterization program.
Isocyanate exposure levels must be monitored.
Monitoring techniques have been developed by NIOSH and OSHA.
Medical Surveillance:
Medical supervision of all employees who handle or come in contact with isocyanates is recommended.
These should include preemployment and periodic medical examinations with pulmonary function tests (FEV, FVC as a minimum).
Persons with asthmatic-type conditions, chronic bronchitis, other chronic respiratory diseases or recurrent skin eczema or sensitization should be excluded from working with isocyanates.
Once a person is diagnosed as sensitized to an isocyanate, no further exposure can be permitted.

Respiratory protection: Ensure adequate ventilation.
An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area

Eye protection: Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing.
Full face protection should be used if the potential for splashing or spraying of product exists.
Safety showers and eye wash stations should be available.
Vapor resistant goggles should be worn when contact lenses are in use.

Body protection: Wear protective equipment.
Protective clothing that covers arms and legs.

Hand protection: Suitable protective gloves.

9. Physical and chemical properties

Physical state:	liquid	Appearance:	Amber
Evaporation rate:	Not available.	Odor:	Mild
pH:	Not applicable, Product reacts with water.	Melting point:	Not applicable, Product is a liquid
Boiling point:	Not available.	Density:	1.05 g/ml
Vapor density:	Not available.	Vapor pressure:	Not available.
Flash point:	212 °C (413.6 °F), Estimated	Ignition temperature:	Not available.

Lower explosive limit:	Not available.	Upper explosive limit:	Not available.
Solubility in water	Insoluble	Viscosity:	5,000 mPa.s
Auto-ignition temperature:	Not available.	Flammability:	Not available.
Octanol / water distribution coefficient:	Not applicable, Mixture	Decomposition temperature:	Not applicable, Substance/mixture is not self-reactive, no organic peroxide and does not decompose under foreseen conditions of use
VOC:	Bulk adhesive Polyurethane Assembly Industry < 50 g/kg, GB 33372-2020 Limit of volatile organic compounds content in adhesive		

10. Stability and reactivity

Reactivity:	Water. Oxidizing agents. Strong acids and strong bases. Amines. Will cause some corrosion of copper alloys and aluminum. Alcohols.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	See section reactivity.
Conditions to avoid:	Keep away from heat, ignition sources and incompatible materials. Contamination with water. Avoid moisture.
Incompatible materials:	See section reactivity.
Hazardous decomposition products:	Oxides of carbon. Oxides of nitrogen. Isocyanates. Tetrahydrofuran. Toxic fumes.

11. Toxicological information

General toxicological information:

No laboratory animal data available.

Acute oral toxicity:

4,4'- methylenediphenyl diisocyanate 101-68-8	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rat
	Method	other guideline:
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	Value type	LD50
	Value	> 10,000 mg/kg
	Species	rat
	Method	OECD Guideline 401 (Acute Oral Toxicity)
methylenediphenyl diisocyanate 26447-40-5	Value type	LD50
	Value	> 7,616 mg/kg
	Species	rat
	Method	OECD Guideline 401 (Acute Oral Toxicity)
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rat
	Method	other guideline:

Acute dermal toxicity:

4,4'- methylenediphenyl diisocyanate 101-68-8	Value type	LD50
	Value	> 9,400 mg/kg
	Species	rabbit
	Method	OECD Guideline 402 (Acute Dermal Toxicity)
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	Value type	LD50
	Value	> 9,400 mg/kg
	Species	rat
	Method	OECD Guideline 402 (Acute Dermal Toxicity)
methylenediphenyl diisocyanate 26447-40-5	Value type	LD50
	Value	> 9,400 mg/kg
	Species	rabbit
	Method	OECD Guideline 402 (Acute Dermal Toxicity)
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1	Value type	LD50
	Value	> 9,400 mg/kg
	Species	rabbit
	Method	OECD Guideline 402 (Acute Dermal Toxicity)

Acute inhalative toxicity:

4,4'- methylenediphenyl diisocyanate 101-68-8	Value type	Acute toxicity estimate (ATE)
	Value	1.5 mg/l
	Exposure time	4 h
	Species	
	Method	Expert judgement
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	Value type	Acute toxicity estimate (ATE)
	Value	1.5 mg/l
	Exposure time	4 h
	Species	
	Method	Expert judgement
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1	Value type	LC 50
	Value	645 mg/m3
	Exposure time	4 h
	Species	Rat
	Method	
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1	Value type	RD 50
	Value	0.032 mg/l
	Exposure time	4 h
	Species	Mouse
	Method	
o-(p-Isocyanatobenzyl)phenyl	Value type	LC 50

isocyanate 5873-54-1	Value	0.49 mg/l
	Exposure time	4 h
	Species	Rat
	Method	
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1	Value type	LC 50
	Value	310 mg/m3
	Exposure time	4 h
	Species	Rat
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1	Value type	LC 50
	Value	387 mg/m3
	Exposure time	4 h
	Species	Rat
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1	Value type	Acute toxicity estimate (ATE)
	Value	1.5 mg/l
	Exposure time	4 h
	Species	
	Method	Expert judgement

Skin corrosion/irritation:

4,4'- methylenediphenyl diisocyanate 101-68-8	Result	irritating
	Exposure time	4 h
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	Result	irritating
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
methylenediphenyl diisocyanate 26447-40-5	Result	highly irritating
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1	Result	irritating
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

4,4'- methylenediphenyl diisocyanate 101-68-8	Result	irritating
	Exposure time	
	Species	human
	Method	Weight of evidence
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	Result	irritating
	Exposure time	
	Species	human
	Method	Weight of evidence
methylenediphenyl diisocyanate 26447-40-5	Result	irritating
	Exposure time	
	Species	human
	Method	Weight of evidence

Respiratory or skin sensitization:

4,4'- methylenediphenyl diisocyanate 101-68-8	Result	sensitising
	Test type	Buehler test
	Species	guinea pig
	Method	OECD Guideline 406 (Skin Sensitisation)
4,4'- methylenediphenyl diisocyanate 101-68-8	Result	sensitising
	Test type	Respiratory sensitisation
	Species	guinea pig
	Method	not specified
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	Result	sensitising
	Test type	Skin sensitisation
	Species	guinea pig
	Method	OECD Guideline 406 (Skin Sensitisation)
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1	Result	sensitising
	Test type	Respiratory sensitisation
	Species	guinea pig
	Method	not specified
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1	Result	not sensitising
	Test type	Buehler test
	Species	guinea pig
	Method	OECD Guideline 406 (Skin Sensitisation)
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1	Result	sensitising
	Test type	Mouse local lymphnode assay (LLNA)
	Species	mouse
	Method	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

Germ cell mutagenicity:

4,4'-methylenediphenyl diisocyanate 101-68-8	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	EU Method B.13/14 (Mutagenicity)
4,4'-methylenediphenyl diisocyanate 101-68-8	Result	negative
	Type of study / Route of administration	inhalation
	Metabolic activation / Exposure time	
	Species	rat
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	EU Method B.13/14 (Mutagenicity)
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	Result	negative
	Type of study / Route of administration	inhalation
	Metabolic activation / Exposure time	
	Species	rat
methylenediphenyl diisocyanate 26447-40-5	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	not specified
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1	Result	negative
	Type of study / Route of administration	inhalation
	Metabolic activation / Exposure time	
	Species	rat
	Method	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Carcinogenicity

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Sex	Method
4,4'- methylenediphenyl diisocyanate 101-68-8	carcinogenic	inhalation: aerosol	2 y 6 h/d	rat	male/female	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
Isocyanic acid, polymethylenepolyphenyl ene ester 9016-87-9	carcinogenic	inhalation: aerosol	2 y 6 h/d	rat	male/female	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
o-(p- Isocyanatobenzyl)phenyl isocyanate 5873-54-1	carcinogenic	inhalation: aerosol	2 y 6 h/d, 5 d/w	rat	male/female	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

Reproductive toxicity:

No data available.

STOT-single exposure:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous components CAS-No.	Assessment	Route of exposure	Target Organs	Remarks
4,4'- methylenediphenyl diisocyanate 101-68-8	May cause respiratory irritation.			
Isocyanic acid, polymethylenepolyphenyl ene ester 9016-87-9	May cause respiratory irritation.			
methylenediphenyl diisocyanate 26447-40-5	Category 3 with respiratory tract irritation.			

STOT-repeated exposure:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous components CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
4,4'- methylenediphenyl diisocyanate 101-68-8	NOAEL 0.0002 mg/l	inhalation: aerosol	main: 2 y; satellite:1 y 6 h/d; 5 d/w	rat	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
Isocyanic acid, polymethylenepolyphenyl ene ester 9016-87-9	NOAEL 0.0002 mg/l	inhalation: aerosol	2 y 6 h per d, 5 d per week	rat	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
o-(p- Isocyanatobenzyl)phenyl isocyanate 5873-54-1	NOAEL 0,2 mg/m ³	inhalation: aerosol	2 y 6 h/d, 5 d/w	rat	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

Aspiration hazard:
No data available.

12. Ecological information

General ecological information:

Do not empty into drains / surface water / ground water.

Toxicity:

Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous components CAS-No.	Value type	Value	Exposure time	Species	Method
4,4'- methylenediphenyl diisocyanate 101-68-8	LL50	> 100 mg/l	96 h	Danio rerio	OECD Guideline 203 (Fish, Acute Toxicity Test)
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	LC50	> 1,000 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
methylenediphenyl diisocyanate 26447-40-5	LC50	> 10,000 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	not specified
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1	LC50	Toxicity > Water Solubility	96 h	Danio rerio	OECD Guideline 203 (Fish, Acute Toxicity Test)

Toxicity (aquatic invertebrates):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous components CAS-No.	Value type	Value	Exposure time	Species	Method
4,4'- methylenediphenyl diisocyanate 101-68-8	EC50	> 100 mg/l	48 h	Daphnia magna	EU Method C.2 (Acute Toxicity for Daphnia)
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	EC50	> 1,000 mg/l	24 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
methylenediphenyl diisocyanate 26447-40-5	EC50	> 1,000 mg/l	24 h	Daphnia magna	not specified
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1	EC50	Toxicity > Water Solubility	24 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Chronic toxicity (aquatic invertebrates):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous components CAS-No.	Value type	Value	Exposure time	Species	Method
4,4'- methylenediphenyl diisocyanate 101-68-8	NOEC	10 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
Isocyanic acid, polymethylenepolyphenylene ester	NOEC	10 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

9016-87-9					
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1	NOEC	Toxicity > Water solubility	21 day	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous components CAS-No.	Value type	Value	Exposure time	Species	Method
4,4'- methylenediphenyl diisocyanate 101-68-8	EL50	> 100 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
4,4'- methylenediphenyl diisocyanate 101-68-8	NOELR	100 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	EC50	> 1,640 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
methylenediphenyl diisocyanate 26447-40-5	ErC50	> 100 mg/l	72 h	Desmodesmus subspicatus	not specified
methylenediphenyl diisocyanate 26447-40-5	NOEC	1,640 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	not specified
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1	EC50	Toxicity > Water Solubility	72 h	Desmodesmus subspicatus (reported as Scenedesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1	NOELR	Toxicity > Water Solubility	72 h	Desmodesmus subspicatus (reported as Scenedesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)

Toxicity (microorganisms):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous components CAS-No.	Value type	Value	Exposure time	Species	Method
4,4'- methylenediphenyl diisocyanate 101-68-8	EC50	> 1,000 mg/l	3 h	activated sludge of a predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	EC50	> 100 mg/l	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
methylenediphenyl diisocyanate 26447-40-5	EC50	> 100 mg/l	3 h		OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

Persistence and degradability

Hazardous components CAS-No.	Result	Test type	Degradability	Exposure time	Method
4,4'-methylenediphenyl diisocyanate 101-68-8	not readily biodegradable.	aerobic	0 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	not inherently biodegradable	aerobic	0 %	28 d	OECD Guideline 302 C (Inherent Biodegradability: Modified MITI Test (II))
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	not readily biodegradable.	not specified	0 %	28 d	OECD 301 A - F
methylenediphenyl diisocyanate 26447-40-5	not inherently biodegradable	aerobic	0 %	28 d	OECD Guideline 302 C (Inherent Biodegradability: Modified MITI Test (II))
methylenediphenyl diisocyanate 26447-40-5	not readily biodegradable.	not specified	0 %	28 d	OECD 301 A - F
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1	not inherently biodegradable	aerobic	0 %	28 d	OECD Guideline 302 C (Inherent Biodegradability: Modified MITI Test (II))

Bioaccumulative potential

Hazardous components CAS-No.	Bioconcentratio n factor (BCF)	Exposure time	Temperature	Species	Method
4,4'-methylenediphenyl diisocyanate 101-68-8	92 - 200	28 d		Cyprinus carpio	OECD Guideline 305 E (Bioaccumulation: Flow-through Fish Test)
4,4'-methylenediphenyl diisocyanate 101-68-8		28 d	25.0 °C	Cyprinus carpio	
4,4'-methylenediphenyl diisocyanate 101-68-8		28 d	25.0 °C	Cyprinus carpio	
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	200			Cyprinus carpio	OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)
methylenediphenyl diisocyanate 26447-40-5	< 1	112 d		Oncorhynchus mykiss	not specified
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1		28 d	25.0 °C	Cyprinus carpio	
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1		28 d	25.0 °C	Cyprinus carpio	
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1	200	28 day		Cyprinus carpio	OECD Guideline 305 E (Bioaccumulation: Flow-through Fish Test)

Mobility in soil:

Hazardous components CAS-No.	LogPow	Temperature	Method
4,4'-methylenediphenyl diisocyanate 101-68-8	4.51	22 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1	5.22		QSAR (Quantitative Structure Activity Relationship)

Endocrine disrupting properties

No data available.

Other adverse effects

No data available.

13. Disposal considerations

Product disposal:

Dispose of in accordance with local and national regulations.

Disposal of uncleaned packages:

After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

14. Transport information

Road transport CN_DG:

Not dangerous goods

Marine transport IMDG:

Not dangerous goods

Air transport IATA:

Not dangerous goods

Notice For Transportation:

Transport according to local and national regulations. Ensure containers will not leak, collapse, or being damaged when transported. DO NOT transport with incompatible materials. Transportation vehicle should be equipped with right fire-fighting equipment in case of emergency. Avoid solarization, drenched and high temperature when transported.

15. Regulatory information

The following laws and regulations lay down provisions in terms of chemicals safety use, storage, transportation, loading/unloading, classification as well as symbol.

“Law of the People's Republic of China on Work Safety”.

Law of the People's Republic of China on the Prevention and Treatment of Occupational Diseases”.

“Law of the People's Republic of China on environmental protection”.

“Regulation on the Safety Management of Hazardous Chemicals”.

“Regulations on License to Work Safety”.

China Inventory of Existing Chemicals:

All components are listed or are exempt from Inventory of Existing Chemical Substances in China.

16. Other information

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Others: **The full text of all abbreviations indicated by codes in this safety data sheet section 3 are as follows:**

H315 Causes skin irritation.

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.

H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or repeated exposure if inhaled.

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