

EC safety data sheet

Trade name: Giessharz Isocyanat KG-Härter

Product no.: B9

Version: 1.0.0 / GB

Status: 18.08.2011

1.) Identification of the substance/mixture and of the company/undertaking

Trade name

Giessharz Isocyanat KG-Härter

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture

filling compound for electrotechnical use

Details of the supplier of the safety data sheet

Address

Cellpack GmbH

Electrical Products

Carl-Zeiss-Strasse 20

79761 Waldshut-Tiengen

Telephone no. +49 (0)7741 6007-0

Fax no. +49 (0)7741 64989

Information provided by / telephone

+49 (0)7741 6007-0

Emergency telephone

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

Advice on Safety Data Sheet

msds@cellpack.com

2.) Hazards identification

Classification of the substance or mixture

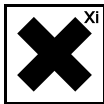
Classification in accordance with Directive 67/548/EEC or 1999/45/EC

R43

Label elements

Labelling according to Directive 1999/45/CE

Hazard symbols



Irritant

Hazardous component(s) to be indicated on label, contains:

Aliphatic polyisocyanate

R phrases

43 May cause sensitisation by skin contact.

S phrases

2 Keep out of the reach of children.

36/37 Wear suitable protective clothing and gloves.

46 If swallowed, seek medical advice immediately and show this container or label.

Supplemental label elements

Contains isocyanates. Observe manufacturer's instructions.

Other hazards

The product may be a skin sensitiser. It may also be a severe skin irritant.

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3.) Composition / information on ingredients

Substance / product identification

Chemical characterization

Polyisocyanat prepolymer

Hazardous ingredients

Aliphatic polyisocyanate

EC no.	500-060-2	Index no.	-	CAS no.	28182-81-2
Concentration	> 5	<	10	%-b.w.	
Classification	R43				
Hazard symbols	Xi	R phrases		43	

4-isocyanatosulphonyltoluene, tosyl isocyanate

EC no.	223-810-8	Index no.	615-012-00-7	CAS no.	4083-64-1
Concentration	> 0,1	<	1	%-b.w.	
Classification	R14 Xi; R36/37/38	R42			
Hazard symbols	Xn	R phrases		14-36/37/38-42	

di-"isononyl" phthalate

EC no.	249-079-5	Index no.	-	CAS no.	28553-12-0
Concentration	> 70	<	90	%-b.w.	
Classification	-				
Hazard symbols	-	R phrases		-	

4.) First aid measures

General information

In all cases of doubt, or when sickness symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. Remove soiled or soaked clothing immediately.

After inhalation

Remove to fresh air, keep patient warm and at rest. Irregular breathing/no breathing: artificial respiration. If unconscious place in recovery position and seek medical advice.

After skin contact

Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners !

After eye contact

Remove contact lenses, irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart and seek medical advice.

After ingestion

Do not induce vomiting. Summon a doctor immediately. Never give anything by mouth to an unconscious person. Keep at rest.

5.) Fire-fighting measures

Suitable extinguishing media

Alcohol resistant foam, CO₂, powders, water spray

Extinguishing media that must not be used for safety reasons

Full water jet

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

Special protective equipment for fire-fighters

Appropriate breathing apparatus may be required.

Other information

Cool endangered containers with water in case of fire. DO NOT ALLOW RUN-OFF FROM FIRE FIGHTING TO ENTER DRAINS OR WATER COURSES: Fire residues must be disposed of in a proper manner.

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6.) Accidental release measures

Personal precautions

Exclude sources of ignition and ventilate the area. Do not inhale vapours. Refer to protective measures listed in sections 7 and 8.

Environmental precautions

Do not allow to enter drains. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations. Add the same decontaminant to the remnants and let stand for several days until no further reaction in non-sealed container. Once this stage is reached, close container and dispose according to local regulations.

Methods for cleaning up/taking up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see chapter 13). Clean preferably with a detergent; avoid use of solvents.

Additional informations (chapter 6)

Immediately clean contaminated areas with following substances :

usable(flammable):	Water	45 Vol.%
	Ethanol or Isopropyl Alcohol	50 Vol.%
	Ammonia solution (density=0,88)	5 Vol.%

Alternative applicable to that (not flammable):

Sodium Carbonate	5 Vol.%
Water	95 Vol.%

7.) Handling and storage

Handling

Advice on safe handling

Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this preparation is used !; The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Comply with the health and safety at work laws.

Advice on protection against fire and explosion

No special measures necessary.

Storage

Requirements for storage rooms and vessels

Keep container tightly closed. Never use pressure to empty: container is not a pressure vessel. No smoking. Prevent unauthorized access!; Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Advice on storage assembly

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.

Further information on storage conditions

Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight. Keep container dry in a cool, well-ventilated place. Precautions should be taken to minimise exposure to atmospheric humidity or water: CO₂ will be formed which in closed containers can result in pressurisation. DO NOT KEEP THE CONTAINERS SEALED !!; store at 15 - 30 °C.

8.) Exposure controls / personal protection

Exposure limit values

di-"isononyl" phthalate

CAS no.	28553-12-0
EC no.	249-079-5

List of approved workplace exposure limits (WELs) / EH40

Diisononyl phthalate		
TWA	5	mg/m ³

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Exposure controls**Occupational exposure controls**

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn. Air-fed protective respiratory equipment must be worn by spray operator even when good ventilation is provided.

Personal protective equipment**Respiratory protection**

By spraying: air-fed respirator

By other operations than spraying: in well ventilated areas, air-fed respirators could be replaced by a combination of charcoal filter and particulate filter mask.

Hand protection

Adhere to the professional organisation rule "Use of protective gloves".

Appropriate chemicals resistant glove tested in compliance with EN 374.

Recommendation for protection against components generally found in the products:

For short-term contact (i.e. splash protection):

Appropriate material: nitrile rubber, Neopren

Material thickness: > 0,4 mm

Breakthrough time: > 480 min

Before use, the protective glove should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties).

Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves.

Protective gloves shall be replaced immediately when physically damaged or worn. Preventive hand protection (skin protection cream) recommended. Wash immediately contaminated skin).

Design operations thus to avoid permanent use of protective gloves.

Eye protection

Wear safety goggles to protect against solvent splashes.

Skin protection

Personal should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber. All parts of the body should be washed after contact.

General protective and hygiene measures

Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this preparation is used. Do not eat or drink during work - no smoking. Avoid product contact with skin, eyes and clothing

9.) Physical and chemical properties**General information**

Form	liquid
Colour	brown
Odour	aromatic

Important health, safety and environmental information**Flash point**

Value	>	200	° C
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Density

Value	appr. 94	- 0,99	g/cm ³
Reference temperature	20	° C	

Viscosity

Type	dynamic		
Value	100	- 200	mPa*s
Reference temperature	20	° C	

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Solubility in water

Remarks immiscible

10.) Stability and reactivity**Conditions to avoid**

Stable under recommended storage and handling conditions(See section 7).

Materials to avoid

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions. The product reacts slowly with water resulting in evolution of carbon dioxide. In closed containers, pressure build up could result distortion blowing and in extreme cases bursting of the container.

Hazardous decomposition products

In a fire, hazardous decomposition products, such as smoke, carbon monoxide, carbon dioxide, oxides of nitrogen, hydrogen cyanide, monomers of isocyanates, amines and alcohols may be produced.

11.) Toxicological information**Acute toxicity****Acute oral toxicity**

LD50	>	5000	mg/kg
Species		rat	
Reference substance		Hexamethylene-1,6-diisocyanate homopolymer	

Irritant/corrosive effects**Irritant effect on skin**

Species	rabbit
Reference substance	Hexamethylene-1,6-diisocyanate homopolymer
Evaluation	low-irritant
Method	OECD 404

Irritant effect on eyes

Species	rabbit
Reference substance	Hexamethylene-1,6-diisocyanate homopolymer
Evaluation	low-irritant
Method	OECD 405

Sensitisation

Species	guinea pig
Reference substance	Hexamethylene-1,6-diisocyanate homopolymer
Evaluation	sensitizing
Method	OECD 406
Source	Magnuson/Klingmann-Test

Other information

Based on the properties of the isocyanate components and considering toxicological data on similar preparations: This preparation may cause acute irritation and/or sensitisation of the respiratory system leading to an asthmatic condition, wheeziness and a tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability.

12.) Ecological information**Ecotoxicity****Fish toxicity**

LC50	>	100	mg/l
Species		Brachydanio rerio	
Duration of exposure		96	h
Method		OECD 203	
Reference substance		Hexamethylene-1,6-diisocyanate homopolymer	

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Daphnia toxicity

EC50	> 100	mg/l
Species	Daphnia magna	
Duration of exposure	48	h
Method	OECD 202	
Reference substance	Hexamethylene-1,6-diisocyanate homopolymer	

Algae toxicity

IC50	> 100	mg/l
Species	Scenedesmus subspicatus	
Duration of exposure	72	h
Method	OECD 201	
Reference substance	Hexamethylene-1,6-diisocyanate homopolymer	

Bacteria toxicity

EC50	1000	mg/l
Species	activated sludge	
Duration of exposure	3	h
Method	OECD 209	
Reference substance	Hexamethylene-1,6-diisocyanate homopolymer	

Persistence and degradability**Biodegradability**

Value	0	%
Method	OECD 301 C	
Evaluation	not readily biodegradable	
Reference substance	Hexamethylene-1,6-diisocyanate homopolymer	

Other information

The product should not be allowed to enter drains or water courses. The product reacts with water in the boundary layer forming CO₂ and a solid insoluble product with high melting point (polyurea). This reaction is accelerated by surfactants (e.g. detergents) or by watersoluble solvents. According to experience to date, polyurea is inert and is not degradable.

13.) Disposal considerations**Product**

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed of in agreement with the regional waste disposal company.

14.) Transport information**Other information**

If transported within the user's premises: The product is not defined under national/international road, rail, sea and air dangerous goods transport regulations as a hazardous material.

15.) Regulatory information**Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations****Restriction of occupation**

Adhere to the national sanitary and occupational safety regulations when using this product.

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16.) Other information

Sources of key data used to compile the data sheet:

EC Directive 67/548/EC resp. 99/45/EC as amended in each case.

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EC

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

Full text of R-phrases referred to under section 3

R14	Reacts violently with water.
R36/37/38	Irritating to eyes, respiratory system and skin.
R42	May cause sensitisation by inhalation.
R43	May cause sensitisation by skin contact.

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.