

EC safety data sheet

Trade name: Giessharz Isocyanat KG-Härter

Product no.: B9

Current version : 3.0.0, issued: 03.07.2014

Replaced version: 2.0.0, issued: 07.03.2012

Region: GB

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name

Giessharz Isocyanat KG-Härter

1.2 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

1.3 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

Email electrical.products@cellpack.com

Information provided by / telephone

+49 (0)7741 6007-0

Advice on Safety Data Sheet

msds@cellpack.com

1.4 Emergency telephone number

For medical advice (in German and English):
+49 (0)551 192 40 (Giftinformationszentrum Nord)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 (CLP)

Skin Sens. 1; H317

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

R43

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)

Hazard pictograms



GHS07

Signal word

Warning

Hazardous component(s) to be indicated on label:

Aliphatic polyisocyanate

Hazard statements

H317 May cause an allergic skin reaction.

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Hazard statements (EU)

EUH204 Contains isocyanates. May produce an allergic reaction.
EUH208 Contains 4-isocyanatosulphonyltoluene, tosyl isocyanate. May produce an allergic reaction.

Precautionary statements

P261 Avoid breathing vapours/spray.
P280 Wear protective gloves/protective clothing.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents / container in accordance with local / regional / national / international regulations.

2.3 Other hazards

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

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Chemical characterization

Polyisocyanat prepolymer

Hazardous ingredients

No	Substance name	Classification	Classification (EC)	Additional information	
	CAS / EC / Index / REACH no	67/548/EEC	1272/2008 (CLP)	Concentration	%
1	Aliphatic polyisocyanate				
	28182-81-2 931-274-8 - -	R43	Skin Sens. 1; H317	> 5.00 - < 10.00	%-b.w.
2	6,6'-DI-TERT-2,2'-METHYLENEDI-P-KRESOL (BPH)				
	119-47-1 204-327-1 - -	Repr.Cat.3; R62 R53	Aquatic Chronic 4; H413 Repr. 2; H361f	> 0.50 - < 1.00	%-b.w.
3	4-isocyanatosulphonyltoluene, tosyl isocyanate				
	4083-64-1 223-810-8 615-012-00-7 -	R14 Xi; R36/37/38 R42	EUH014 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Irrit. 2; H315 STOT SE 3; H335	> 0.50 - < 1.00	%-b.w.
4	di-isononyl phthalate				
	28553-12-0 249-079-5 - -	-	-	> 70.00 - < 90.00	%-b.w.

Full Text for all R-phrases , H-phrases and EUH-phrases: pls. see section 16

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
3	-	Eye Irrit. 2; H319: C >= 5% Skin Irrit. 2; H315: C >= 5% STOT SE 3; H335: C >= 5%	-	-

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SECTION 4: First aid measures

4.1 Description of 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. Call a doctor immediately. Never give anything by mouth to an unconscious person. Keep at rest.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Alcohol resistant foam, CO₂, powders, water spray

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

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

5.3 Advice for firefighters

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

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

For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

6.2 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.

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6.3 Methods and material for containment and cleaning up

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

6.4 Reference to other sections

No data available.

SECTION 7: Handling and storage

7.1 Precautions for safe 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.

General protective and hygiene measures

Do not eat or drink during work - no smoking. Avoid product contact with skin, eyes and clothing

Advice on protection against fire and explosion

No special measures necessary.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and 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 !! Avoid temperatures below +10 ° C and +50 ° C.

Recommended storage temperature

Value	15	-	25	°C
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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 closed and kept upright to prevent leakage.

Advice on storage assembly

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

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

No	Substance name	CAS no.	EC no.
1	di-isononyl phthalate	28553-12-0	249-079-5
List of approved workplace exposure limits (WELs) / EH40			
Diisononyl phthalate			
	TWA	5	mg/m ³

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8.2 Exposure controls

Appropriate engineering 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.

Eye / face protection

Tightly fitting safety glasses (EN 166).

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves 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. Design operations thus to avoid permanent use of protective gloves. In case of short-term contact / splash protection: In case of longer-term contact:

Appropriate Material	nitrile rubber		
Material thickness	>=	0.4	mm
Breakthrough time	>	30	min.
Appropriate Material	nitrile rubber		
Material thickness	>=	0.4	mm
Breakthrough time	>	480	min.

Other

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.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form/Colour
liquid
light yellow
Odour
aromatic

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Odour threshold			
No data available			
pH value			
No data available			
Boiling point / boiling range			
No data available			
Melting point / melting range			
No data available			
Decomposition point / decomposition range			
No data available			
Flash point			
Value	>	200	°C
Auto-ignition temperature			
No data available			
Oxidising properties			
No data available			
Explosive properties			
No data available			
Flammability (solid, gas)			
No data available			
Lower flammability or explosive limits			
No data available			
Upper flammability or explosive limits			
No data available			
Vapour pressure			
No data available			
Vapour density			
No data available			
Evaporation rate			
No data available			
Relative density			
No data available			
Density			
Value	appr. 0.94	- 1.04	g/cm³
Reference temperature		20	°C
Solubility in water			
Remarks	immiscible		
Solubility(ies)			
No data available			
Partition coefficient: n-octanol/water			
No data available			
Viscosity			
Value	100	- 200	mPa*s
Reference temperature		20	°C
Type	dynamic		

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9.2 Other information

Other information
No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

stable if stored and handled properly.

10.3 Possibility of hazardous reactions

Reacts with water, alcohols, amines.

10.4 Conditions to avoid

Protect against humidity.

10.5 Incompatible materials

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.

10.6 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.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity		
No	Product Name	
1	Giessharz Isocyanat KG-Härter	
LD50	>	5000 mg/kg
Species	rat	
Reference substance	Hexamethylene-1,6-diisocyanate homopolymer	

Acute dermal toxicity		
No data available		

Acute inhalational toxicity		
No data available		

Skin corrosion/irritation		
No	Product Name	
1	Giessharz Isocyanat KG-Härter	
Species	rabbit	
Reference substance	Hexamethylene-1,6-diisocyanate homopolymer	
Method	OECD 404	
Evaluation	low-irritant	

Serious eye damage/irritation		
No	Product Name	
1	Giessharz Isocyanat KG-Härter	
Species	rabbit	
Reference substance	Hexamethylene-1,6-diisocyanate homopolymer	
Method	OECD 405	
Evaluation	low-irritant	

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Respiratory or skin sensitisation	
No	Product Name
1	Giessharz Isocyanat KG-Härter
Route of exposure	Skin
Species	guinea pig
Reference substance	Hexamethylene-1,6-diisocyanate homopolymer
Method	OECD 406
Source	Magnuson/Klingmann-Test
Evaluation	sensitizing
Germ cell mutagenicity	
No data available	
Reproduction toxicity	
No data available	
Carcinogenicity	
No data available	
STOT-single exposure	
No data available	
STOT-repeated exposure	
No data available	
Aspiration hazard	
No data available	
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.	

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acute)			
No	Product Name		
1	Giessharz Isocyanat KG-Härter		
LC50	>	100	mg/l
Duration of exposure		96	h
Species	Brachydanio rerio		
Reference substance	Hexamethylene-1,6-diisocyanate homopolymer		
Method	OECD 203		
Toxicity to fish (chronic)			
No data available			
Toxicity to Daphnia (acute)			
No	Product Name		
1	Giessharz Isocyanat KG-Härter		
EC50	>	100	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Reference substance	Hexamethylene-1,6-diisocyanate homopolymer		
Method	OECD 202		

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Toxicity to Daphnia (chronic)	
No data available	

Toxicity to algae (acute)	
No	Product Name
1	Giessharz Isocyanat KG-Härter
IC50	> 1000 mg/l
Duration of exposure	72 h
Species	Scenedesmus subspicatus
Reference substance	Hexamethylene-1,6-diisocyanate homopolymer
Method	OECD 201

Toxicity to algae (chronic)	
No data available	

Bacteria toxicity	
No	Product Name
1	Giessharz Isocyanat KG-Härter
EC50	1000 mg/l
Duration of exposure	3 h
Species	activated sludge
Reference substance	Hexamethylene-1,6-diisocyanate homopolymer
Method	OECD 209

12.2 Persistence and degradability

Biodegradability	
No	Product Name
1	Giessharz Isocyanat KG-Härter
Value	0 %
Reference substance	Hexamethylene-1,6-diisocyanate homopolymer
Method	OECD 301 C
Evaluation	not readily biodegradable

Physico-chemical eliminability	
No	Product Name
1	Giessharz Isocyanat KG-Härter
Remarks	The product reacts with water in the boundary layer forming CO ₂ 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.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

12.7 Other information

Other information
The product should not be allowed to enter drains or water courses.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

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.

SECTION 14: Transport information

14.1 Transport ADR/RID/ADN

The product is not subject to ADR/RID/ADN regulations.

14.2 Transport IMDG

The product is not subject to IMDG regulations.

14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

If transported within the user's premises: To be transported always in closed, upright and safe containers. Make sure that persons handling these containers are aware of the rules of conduct in case of incident or spillage.

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

Not relevant

SECTION 15: Regulatory information

15.1 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.

15.2 Chemical safety assessment

No data available.

SECTION 16: Other information

Sources of key data used to compile the data sheet:

EC Directive 67/548/EC resp. 1999/45/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/EU

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.

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Full text of the R-, H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

R14	Reacts violently with water.
R36/37/38	Irritating to eyes, respiratory system and skin.
R42	May cause sensitization by inhalation.
R43	May cause sensitisation by skin contact.
R53	May cause long-term adverse effects in the aquatic environment.
R62	Possible risk of impaired fertility.
EUH014	Reacts violently with water.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H361f	Suspected of damaging fertility.
H413	May cause long lasting harmful effects to aquatic life.

This information is based on our present state of knowledge and experience.

The security data sheet describes products with a view to the security requirements.

However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.