

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

1.1. Product identifier

Product form : Mixture
 Trade name : Primer PU Turbo

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

1.2.1. Relevant identified uses

Main use category : Professional use

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

DL CHEMICALS
 Roterijstraat 201-203
 B-8793 Waregem - Belgium
 T + 32 56 62 70 51 - F + 32 56 60 95 68
info@dl-chem.com - www.dl-chem.com

1.4. Emergency telephone number

Emergency number : + 32 70 245 245

Country	Official advisory body	Address	Emergency number	Comment
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (inhalation:dust,mist) H332
 Category 4
 Skin corrosion/irritation, Category 2 H315
 Serious eye damage/eye irritation, Category 2 H319
 Respiratory sensitisation, Category 1 H334
 Skin sensitisation, Category 1 H317
 Carcinogenicity, Category 2 H351
 Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation H335
 Specific target organ toxicity — Repeated exposure, Category 2 H373

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :



CLP Signal word : Danger

Hazardous ingredients : 1,1-methylenebis(isocyanatebenzene) polymer; 4,4'-methylenediphenyl diisocyanate; 4,4'-methylenediphenyl diisocyanate, isomers and homologues; Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-

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Hazard statements (CLP)	: isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate : 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.
Precautionary statements (CLP)	: P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. P102 - Keep out of reach of children. P260 - Do not breathe dust, fume, gas, mist, vapours, spray. P280 - Wear protective gloves, protective clothing, eye protection, face protection.
EUH-statements	: EUH204 - Contains isocyanates. May produce an allergic reaction.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1,1-methylenebis(isocyanatebenzene) polymer	(CAS-No.) 39420-98-9	10 – 50	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373
4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (Note C)(Note 2)	(CAS-No.) 101-68-8 (EC-No.) 202-966-0 (EC Index-No.) 615-005-00-9 (REACH-no) 01-2119457014-47	10 – 50	Carc. 2, H351 Acute Tox. 4 (Inhalation), H332 STOT RE 2, H373 Eye Irrit. 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315 Resp. Sens. 1, H334 Skin Sens. 1, H317
4,4'-methylenediphenyl diisocyanate, isomers and homologues	(CAS-No.) 9016-87-9 (EC-No.) 618-498-9	10 – 50	Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373
Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate	(EC-No.) 905-806-4 (REACH-no) 01-2119457015-45	10 – 50	Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373

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Specific concentration limits:

Name	Product identifier	Specific concentration limits
4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate	(CAS-No.) 101-68-8 (EC-No.) 202-966-0 (EC Index-No.) 615-005-00-9 (REACH-no) 01-2119457014-47	(0,1 C < 100) Resp. Sens. 1, H334 (5 C < 100) STOT SE 3, H335 (5 C < 100) Skin Irrit. 2, H315 (5 C < 100) Eye Irrit. 2, H319

Note 2 : The concentration of isocyanate stated is the percentage by weight of the free monomer calculated with reference to the total weight of the mixture.

Note C : Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Move to fresh air. If breathing stops, give artificial respiration. Get immediate medical advice/attention.
- First-aid measures after skin contact : After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Wash contaminated clothing before reuse. Get immediate medical advice/attention.
- First-aid measures after eye contact : Contact lenses should be removed. Immediately flush eyes thoroughly with water for at least 15 minutes. Consult an eye specialist if necessary.
- First-aid measures after ingestion : Get immediate medical advice/attention. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : No supplementary information available.

4.3. Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : All extinguishing media allowed. Powder. Foam. Water fog. Carbon dioxide.
- Unsuitable extinguishing media : None.

5.2. Special hazards arising from the substance or mixture

Fire hazard : In case of fire and/or explosion do not breathe fumes.

5.3. Advice for firefighters

- Precautionary measures fire : Use water spray or fog for cooling exposed containers.
- Firefighting instructions : Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
- Protection during firefighting : Wear self-contained breathing apparatus and protective suit (see section 8). Wear fire/flame resistant/retardant clothing. EN 469. Gloves. EN 659. Self-contained breathing apparatus. EN 137.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Wear protective clothing. Concerning personal protective equipment to use, see item 8.

6.1.2. For emergency responders

Protective equipment : Wear protective clothing. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Not in groundwater, surfacewater or sewerage.

6.3. Methods and material for containment and cleaning up

- For containment : Collect spills and put it into appropriated container. Refer to Section 10 on Incompatible Materials. Take up liquid spill into inert absorbent material.
- Methods for cleaning up : For disposal of contaminated materials refer to section 13 : "Disposal considerations".

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Other information : Ensure adequate air ventilation.

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment.

Precautions for safe handling : Keep away from ignition sources (including static discharges). Provide adequate ventilation to minimize dust and/or vapour concentrations.

Hygiene measures : Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Product must only be kept in the original packaging. Store in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Refer to Section 10 on Incompatible Materials.

7.3. Specific end use(s)

No additional information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (101-68-8)		
EU	IOELV TWA (mg/m ³)	0,052 mg/m ³
EU	IOELV TWA (ppm)	0,005 ppm

4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (101-68-8)	
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	50 mg/kg bodyweight/day
Acute - systemic effects, inhalation	0,1 mg/m ³
Acute - local effects, dermal	28,7 mg/cm ²
Acute - local effects, inhalation	0,1 mg/m ³
Long-term - systemic effects, inhalation	0,05 mg/m ³
Long-term - local effects, inhalation	0,05 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, dermal	25 mg/kg bodyweight
Acute - systemic effects, inhalation	0,05 mg/m ³
Acute - systemic effects, oral	20 mg/kg bodyweight
Acute - local effects, dermal	17,2 mg/cm ²
Acute - local effects, inhalation	0,05 mg/m ³
Long-term - systemic effects, inhalation	0,025 mg/m ³
Long-term - local effects, inhalation	0,025 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	1 mg/l
PNEC aqua (marine water)	0,1 mg/l
PNEC (Soil)	
PNEC soil	> 1 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	> 1 mg/l

Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate	
DNEL/DMEL (Workers)	
Acute - systemic effects, inhalation	0,1 mg/m ³
Long-term - local effects, inhalation	0,05 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	1 mg/l
PNEC aqua (marine water)	0,1 mg/l
PNEC aqua (intermittent, freshwater)	10 mg/l

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Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate	
PNEC (Soil)	
PNEC soil	1 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	1 mg/l

8.2. Exposure controls

Appropriate engineering controls:

Local exhaust and general ventilation must be adequate to meet exposure standards. Safety shower.

Hand protection:

The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN 374. CE certificate. Time of penetration is to be checked with the glove producer

Eye protection:

tightly fitting safety goggles. DIN EN 166. Emergency eye wash fountain with clean water

Skin and body protection:

Long sleeved protective clothing. safety foot-wear. EN ISO 20344. Wash hands and other exposed areas with soap and water before leaving work

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. High gas/vapour concentration: gas mask with filter type A. Air-fed respiratory protective equipment should be worn when this product is sprayed if the exposure of the sprayer or other people nearby cannot be controlled to below the occupational exposure limit. In case of any doubt wear a half-mask respirator according to EN 529.

Environmental exposure controls:

Assure that emissions are compliant with all applicable air pollution control regulations.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Colour	: brown.
Odour	: odourless.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: > 100 °C
Flash point	: 210 °C
Auto-ignition temperature	: > 400 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1,16
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 230 mPa·s
Explosive properties	: No data available
Oxidising properties	: No data available

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Explosive limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with water. Exothermic reaction on contact with : Amines. alcohols. with: pressure rise and possible bursting of container.

10.2. Chemical stability

No supplementary information available.

10.3. Possibility of hazardous reactions

Amines. Ammonia. Strong acids. Strong bases. Acids. water. Alcohol.

10.4. Conditions to avoid

Moisture. Do not store at or below 15 °C, to facilitate handling.

10.5. Incompatible materials

No additional information available.

10.6. Hazardous decomposition products

Nitrogen oxides. Carbon oxides (CO, CO₂). Hydrogen cyanide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (inhalation) : Harmful if inhaled.

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LC50 inhalation rat (Dust/Mist - mg/l/4h)	3,13 mg/l/4h
1,1-methylenebis(isocyanatebenzene) polymer (39420-98-9)	
LD50 oral rat	> 10000 mg/kg
LD50 dermal rabbit	> 9400 mg/kg
LC50 inhalation rat (mg/l)	0,49 mg/l/4h
4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (101-68-8)	
LD50 oral rat	> 10000 mg/kg
LD50 dermal rabbit	> 9400 mg/kg
LC50 inhalation rat (mg/l)	0,49 mg/l/4h
4,4'-methylenediphenyl diisocyanate, isomers and homologues (9016-87-9)	
LD50 oral rat	> 10000 mg/kg
LD50 dermal rabbit	> 9400 mg/kg
LC50 inhalation rat (mg/l)	0,49 mg/l/4h
Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 9400 mg/kg
LC50 inhalation rat (mg/l)	0,49 mg/l

Skin corrosion/irritation : Irritating to skin

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : Respiratory or skin sensitisation

Germ cell mutagenicity : No mutagenic effect (Based on available data, the classification criteria are not met)

Carcinogenicity : Possibly human carcinogenic

Reproductive toxicity : No indications of human reproductive toxicity exist. (Based on available data, the classification criteria are not met)

STOT-single exposure : May cause respiratory irritation

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STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
Potential adverse human health effects and symptoms	: Harmful if swallowed. Harmful if inhaled. Irritation of the respiratory tract and the other mucous membranes. Symptoms include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. May be harmful in contact with skin. Causes serious eye irritation. Causes skin irritation.

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute)	: Not classified (Based on available data, the classification criteria are not met)
Hazardous to the aquatic environment, long-term (chronic)	: Not classified (Based on available data, the classification criteria are not met)

4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (101-68-8)	
LC50 fish 1	1000 mg/l
EC50 Daphnia 1	1000 mg/l
NOEC (chronic)	10 mg/l Daphnia magna (Big water flea)

4,4'-methylenediphenyl diisocyanate, isomers and homologues (9016-87-9)	
LC50 fish 1	> 1000 mg/l (OECD 203 method)
EC50 Daphnia 1	> 1000 mg/l (OECD 202 method)
EC50 other aquatic organisms 2	100 mg/l Bacteria
EC50 72h algae (1)	> 1640 mg/l (OECD 201 method)
ErC50 (algae)	72h 1640 mg/l (OECD 201 method)
NOEC (chronic)	10000 mg/l Daphnia magna (Big water flea)
NOEC chronic crustacea	10 mg/l (OECD 211 method)

Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate	
LC50 fish 1	> 1000 mg/l
EC50 Daphnia 1	> 1000 mg/l
EC50 72h algae (1)	1640 mg/l
NOEC chronic crustacea	> 10 mg/l
NOEC chronic algae	> 1640 mg/l

12.2. Persistence and degradability

4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (101-68-8)	
Persistence and degradability	Not easily bio-degradable (according to OECD-criteria).
Biodegradation	28d 0 %

4,4'-methylenediphenyl diisocyanate, isomers and homologues (9016-87-9)	
Persistence and degradability	Not easily bio-degradable (according to OECD-criteria).
Biodegradation	28d 0 %

12.3. Bioaccumulative potential

4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (101-68-8)	
Bioconcentration factor (BCF REACH)	200
Partition coefficient n-octanol/water (Log Pow)	4,51
Bioaccumulative potential	highly bioaccumulative.

4,4'-methylenediphenyl diisocyanate, isomers and homologues (9016-87-9)	
BCF fish 1	200
Bioaccumulative potential	highly bioaccumulative.

Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate	
Partition coefficient n-octanol/water (Log Pow)	4,51 at 22 °C

12.4. Mobility in soil

No additional information available

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12.5. Results of PBT and vPvB assessment

Primer PU Turbo
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : This material and its container must be disposed of as hazardous waste.
 Product/Packaging disposal recommendations : Disposal must be done according to official regulations.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

14.6. Special precautions for user

- Overland transport
Not regulated
- Transport by sea
Not regulated
- Air transport
Not regulated
- Inland waterway transport
Not regulated
- Rail transport
Not regulated

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:	
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Primer PU Turbo ; 4,4'-methylenediphenyl diisocyanate, isomers and homologues ; Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate
56. Methylenediphenyl diisocyanate (MDI)	4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate

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56(a) Methylenediphenyl diisocyanate (MDI) isomers: 4,4'-Methylenediphenyl diisocyanate	4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate
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Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out

4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate

SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation: dust, mist)	Acute toxicity (inhalation: dust, mist) Category 4
Acute Tox. 4 (Inhalation: vapour)	Acute toxicity (inhalation: vapour) Category 4
Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
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.
EUH204	Contains isocyanates. May produce an allergic reaction.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Acute Tox. 4 (Inhalation: dust, mist)	H332	On basis of test data
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Resp. Sens. 1	H334	Calculation method
Skin Sens. 1	H317	Calculation method
Carc. 2	H351	Calculation method
STOT SE 3	H335	Calculation method
STOT RE 2	H373	Calculation method

MSDS Reach Annex II DL-Chem

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.