

Safety Data Sheet

according to UK REACH Regulation

PLASTIFLOOR® 113

Revision date: 30.05.2022

Product code:

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

PLASTIFLOOR® 113

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

Coatings.

Uses advised against

Any non-intended use.

1.3. Details of the supplier of the safety data sheet

Company name:	Plasti Chemie Produktionsgesellschaft mbH
Street:	Falgardring 1
Place:	D-08223 Falkenstein
Telephone:	+49(0)3745/74432-0 / +49(0)3745/74432-27
e-mail:	volkmar.lull@plasti-chemie.de
Contact person: Internet:	Mr.Volkmar Lull, +493745/74432-14

1.4. Emergency telephone number:

+49 (0)3745/74432-0
volkmar.lull@plasti-chemie.de Hr. Volkmar Lull
www.plasti-chemie.de volkmar.lull@plasti-chemie.de
Chemtrec: 1-800-424-9300 for US
+1 703-527-3887 outside US
NHS Direct (UK): +44 (0) 845 46 47; 111

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**Classification according to regulation (EG) 272/2008/WE

Skin Irrit. H315, Skin Sens. 1 H317, Eye Irrit. H319, Acute Tox. 4 H332, Resp. Sens. 1 H334, STOT SE 3 H335,
Carc. 2 H351, STOT RE 2 H373, Aquatic Chronic 3 H412

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.

2.2. Label elements GB

This substance is graded and classified according to (EG) Nr. 1272/2008 [2008]

Signal word: Danger**Pictograms:****Product identifier:**

Conatins: Prepolymer based on aromatic polyisocyanate,
Diphenylmethane-4,4'-diisocyanate,
Diphenylmethane-diisocyanate, isomers and homologues,
Diphenylmethane-2,4'-diisocyanate,
2,2'-Methylenediphenyl diisocyanate.

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Hazard statements

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.
H412	Harmful to aquatic life with long lasting effects

Precautionary statements

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	Wear respiratory protection.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P308 + P313	IF exposed or concerned: Get medical advice/attention.

2.3. Other hazards

In use, may form flammable/explosive vapour-air mixture.

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients
3.2. Mixtures
Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
67815-87-6	Prepolymer based on aromatic polyisocyanate			50-55%
	-	-	-	
	Classification acc. to 1272/2008/WE: Skin Irrit. H315, Skin Sens. 1 H317, Eye Irrit. H319, Acute Tox. 4 H332, Resp. Sens. 1 H334, STOT SE 3 H335, STOT RE 2 H373			
101-68-8	Diphenylmethane-4,4'-diisocyanate			25-30%
	202-966-0	615-005-00-9	01-2119457014-47-0006	
	Classification acc. to 1272/2008/WE: Skin Irrit. H315, Skin Sens. 1 H317, Eye Irrit. H319, Acute Tox. 4 H332, Resp. Sens. 1 H334, STOT SE 3 H335, Carc. 2 H351, STOT RE 2 H373			
5873-54-1	Diphenylmethane-2,4'-diisocyanate			5-10%
	-	615-005-00-9	01-2119480143-45-0000	0-10%
	Classification acc. to 1272/2008/WE: Skin Irrit. H315, Skin Sens. 1 H317, Eye Irrit. H319, Acute Tox. 4 H332, Resp. Sens. 1 H334, STOT SE 3 H335, Carc. 2 H351, STOT RE 2 H373			
32055-14-4	Diphenylmethane-diisocyanate, isomers and homologues			10-15%
	600-079-6		01-2119457024-46-0006	
	Classification acc. to 1272/2008/WE: Skin Irrit. H315, Skin Sens. 1 H317, Eye Irrit. H319, Acute Tox. 4 H332, Resp. Sens. 1 H334, STOT SE 3 H335, Carc. 2 H351, STOT RE 2 H373			
2536-05-2	2,2'-Methylenediphenyl diisocyanate			<0,5%
	219-799-4	615-005-00-9	01-2119927323-43-0000	

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Classification acc. to 1272/2008/WE: Skin Irrit. H315, Skin Sens. 1 H317, Eye Irrit. H319, Acute Tox. 4 H332, Resp. Sens. 1 H334, STOT SE 3 H335, Carc. 2 H351, STOT RE 2 H373
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Further Information

Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH)

SECTION 4: First aid measures**4.1. Description of first aid****measures General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Take off immediately all contaminated clothing.

First aider: Pay attention to self-protection!

After inhalation

Move victim to fresh air and keep calm. Consult doctor if symptoms persist.

After contact with skin

Wash immediately, preferably with cleanser based on polyethylene glycol or with soap and water and rinse thoroughly.

Directly remove contaminated clothing. Consult doctor if symptoms persist.

After contact with eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

After ingestion

Do not induce vomiting. Rinse mouth with water.

Consult doctor if symptoms persist. Show the container or label.

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

The product irritates the respiratory tract and may trigger sensitisation of the skin and respiratory tract. Treatment of acute irritation or bronchial constriction is primarily symptomatic. Extended medical treatment may be required depending on the degree of exposure and the severity of symptoms.

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

No further information relevant

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide (CO₂). Dry extinguishing powder. alcohol resistant foam.

In case of major fire and large quantities: Atomized water.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Under certain fire conditions traces of other toxic substances are possible. Cracked Hydrocarbons, carbon monoxide and carbon dioxide.

5.3. Advice for firefighters

Airtight sealed containers may rupture explosively if heated.

Special protective equipment: Self-contained breathing apparatus, chemical-resistant protective clothing.

Additional information: Do not allow contaminated extinguishing water to enter the soil, ground-water or surface waters.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Exclude sources of ignition.

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Do not breathe vapours. Ensure adequate ventilation.

Use personal protective measures. Keep unprotected persons away.

Avoid skin and eye contamination.

6.2. Environmental precautions

Do not allow product to reach sewage system, water bodies or ground/soil.

6.3. Methods and material for containment and cleaning up

Remove mechanically; cover the remainder with wet, absorbent material (e.g. sawdust, chemical binder based on calcium silicate hydrate, sand). After approx. one hour transfer to waste container and do not seal (evolution of CO₂!).

Keep damp in a safe ventilated area for several days.

6.4. Reference to other sections

Disposal Section 13. Personal protective equipment Section 8

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Provide adequate ventilation as well as local exhaust at critical locations.

Do not breathe gas/vapour/aerosol. Avoid contact with skin, eyes and clothes.

Wear suitable protective clothing. (See section 8.)

Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharges.

Flammable vapours can accumulate in head space of closed systems. In use, may form flammable/explosive vapour-air mixture. Heating causes rise in pressure with risk of bursting.

Advice on general occupational hygiene

The usual precautions for handling chemicals should be considered.

Keep away from food, drink and animal feedingstuffs.

Always close containers tightly after the removal of product. When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Protect skin by using skin protective cream. Take off contaminated clothing and wash it before reuse.

Further information on handling

General protection and hygiene measures: See section 8.

7.2. Conditions for safe storage, including any incompatibilities

General information: Observe country-specific requirements for the storage of hazardous substances.

Requirements for storage rooms and containers:

Store in labelled and closed original container. Store in well ventilated rooms.

Storage compatibility: Keep away from foodstuffs, beverages and food.

Additional information: Keep container tightly closed. Protect from heat and direct sunlight.

storage temperature: 5-25°C

storage class: 10

7.3. Specific end use(s)

See section 1.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

Components with community workplace exposure limits:

Diphenylmethane-4,4'-diisocyanate, CAS 101-68-8

Exposition assessment value

0,05 mg/m³

Diphenylmethane-diisocyanate, isomers and homologues, CAS 9016-87-9

Exposition assessment value

0,05 mg/m³

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Diphenylmethane-2,4'-diisocyanate, CAS 5873-54-1

 Exposition assessment value 0,05 mg/m³
2,2'-Methylenediphenyl diisocyanate, CAS 2536-05-2

 Exposition assessment value 0,05 mg/m³

The product may contain traces of phenylisocyanate

Phenylisocyanate, CAS 103-71-9

Exposition assessment value 0,01 ppm

DNEL
101-68-8 Diphenylmethane-4,4'-diisocyanate:

DNEL	Oral	Inhalation	Dermal
Worker, long-term, local effects	1	0,05 mg/m ³	-
Worker, long-term, systemic effects	1	0,05 mg/m ³	-
Worker, short-term, local effects	1	0,1 mg/m ³	28,7 mg/cm ²
Worker, short-term, systemic effects	1	0,1 mg/m ³	50 mg/kg KG/day
Consumers, long-term, local effects	1	0,025 mg/m ³	-
Consumers, long-term, systemic effects	1	0,025 mg/m ³	-
Consumers, short-term, local effects	1	0,05 mg/m ³	17,2 mg/cm ²
Consumers, short-term, systemic effects	20 mg/kg KG/day	0,05 mg/m ³	25 mg/kg KG/day

9016-87-9 Diphenylmethane-diisocyanate, isomers and homologues:

DNEL	Oral	Inhalation	Dermal
Worker, long-term, local effects	1	0,05 mg/m ³	-
Worker, long-term, systemic effects	1	0,05 mg/m ³	-
Worker, short-term, local effects	1	0,1 mg/m ³	28,7 mg/cm ²
Worker, short-term, systemic effects	1	0,1 mg/m ³	50 mg/kg KG/day
Consumers, long-term, local effects	1	0,025 mg/m ³	-
Consumers, long-term, systemic effects	1	0,025 mg/m ³	-
Consumers, short-term, local effects	1	0,05 mg/m ³	17,2 mg/cm ²
Consumers, short-term, systemic effects	20 mg/kg KG/day	0,05 mg/m ³	25 mg/kg KG/day

5873-54-1 Diphenylmethane-2,4'-diisocyanate:

DNEL	Oral	Inhalation	Dermal
Worker, long-term, local effects	1	0,05 mg/m ³	-
Worker, long-term, systemic effects	1	0,05 mg/m ³	-
Worker, short-term, local effects	1	0,1 mg/m ³	28,7 mg/cm ²
Worker, short-term, systemic effects	1	0,1 mg/m ³	50 mg/kg KG/day
Consumers, long-term, local effects	1	0,025 mg/m ³	-
Consumers, long-term, systemic effects	1	0,025 mg/m ³	-
Consumers, short-term, local effects	1	0,05 mg/m ³	17,2 mg/cm ²
Consumers, short-term, systemic effects	20 mg/kg KG/day	0,05 mg/m ³	25 mg/kg KG/day

2536-05-2 2,2'-Methylenediphenyl diisocyanate:

DNEL	Oral	Inhalation	Dermal
Worker, long-term, local effects	1	0,05 mg/m ³	-
Worker, long-term, systemic effects	1	0,05 mg/m ³	-
Worker, short-term, local effects	1	0,1 mg/m ³	28,7 mg/cm ²
Worker, short-term, systemic effects	1	0,1 mg/m ³	50 mg/kg KG/day
Consumers, long-term, local effects	1	0,025 mg/m ³	-
Consumers, long-term, systemic effects	1	0,025 mg/m ³	-
Consumers, short-term, local effects	1	0,05 mg/m ³	17,2 mg/cm ²
Consumers, short-term, systemic effects	20 mg/kg KG/day	0,05 mg/m ³	25 mg/kg KG/day

1) low oral toxicity: DNEL not calculated.

2) Long-term DNEL.

PNEC
101-68-8 Diphenylmethane-4,4'-diisocyanate:

PNEC freshwater >1 mg/L

PNEC seawater >0,1 mg/L

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PNEC sewage treatment plant	>1 mg/kg
PNEC soil	>1 mg/kg Dry weight
<u>9016-87-9 Diphenylmethane-diisocyanate, isomers and homologues:</u>	
PNEC freshwater	>1 mg/L
PNEC seawater	>0,1 mg/L
PNEC sewage treatment plant	>1 mg/kg
PNEC soil	>1 mg/kg Dry weight
<u>5873-54-1 Diphenylmethane-2,4'-diisocyanate:</u>	
PNEC freshwater	>1 mg/L
PNEC seawater	>0,1 mg/L
PNEC sewage treatment plant	>1 mg/kg
PNEC soil	>1 mg/kg Dry weight
<u>2536-05-2 2,2'-Methylenediphenyl diisocyanate:</u>	
PNEC freshwater	>1 mg/L
PNEC seawater	>0,1 mg/L
PNEC sewage treatment plant	>1 mg/kg
PNEC soil	>1 mg/kg Dry weight

8.2.Exposure controls



Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Provide adequate ventilation as well as local exhaust at critical locations.

Individual protection measures, such as personal protective equipment

Eye/face protection

Recommended eye protection brand: Tightly sealed safety glasses. (BS/EN 166)

Hand protection

In case of prolonged or frequently repeated skin contact: Wear suitable gloves.

Suitable material: Butyl rubber.

Thickness of glove material: 0,5 mm

Breakthrough time >= 480 min. penetration time (maximum wearing period): ~ 120 min. (estimated)

In the case of wanting to use the gloves again, clean them before taking off and air them well. Before using check leak tightness / impermeability.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

The selected protective gloves have to satisfy the specifications of EU Directive EC/2016/425 and the standard EN 374 derived from it.

Skin protection

Wear fire/flame resistant/retardant clothing.

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

Generation/formation of aerosols

Exceeding exposure limit values

Insufficient ventilation

Suitable respiratory protective equipment: Combination filtering device (EN 14387) Type: A/P1-3

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

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Environmental exposure controls

Do not allow uncontrolled discharge of product into the environment.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Appearance:

Physical state: Liquid

Colour: Dark brown

Odour: earthy musty

Odour threshold: Not determined.

Safety relevant basic data:

Parameters		Unit	Remark
Density:	1,15	g/cm ³	
Bulk density:			not determined
pH value:			
Melting point/Melting range:			not determined
Boiling point/Boiling range:	368	°C	
Flash point:	>250	°C	DIN EN 22719
Inflammability (solid/gaseous)			not determined
Explosion dangerousness:			not determined
lower Explosion limit:			not determined
upper Explosion limit:			not determined
Ignition temperature			not determined
Vapour pressure	16	hPa	at 20°C (MMA)
Viscosity	5400	mPa.s	Brookfield

9.2. Other Information

VOC: 0,01%

SECTION 10: Stability and reactivity**10.1. Reactivity**

No further relevant information available

10.2. Chemical stabilityPolymerises at about 200°C with evolution of CO₂.**10.3. Possibility of hazardous reactions**Exothermic reactions with amines and alcohols. Reacts with water forming CO₂. In closed containers, risk of bursting owing to increase of pressure.**10.4. Conditions to avoid**

No further relevant information available.

10.5. Incompatible materials

No further relevant information available..

10.6. Hazardous decomposition products

No hazardous decomposition products known when stored and handled correctly

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in GB CLP Regulation****Acute Toxicity**

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Relevant LD/LC50 Values:

Oral: product LD50 (Rat) >5000mg/kg

Dermal: 67815-87-6 Prepolymer based on aromatic polyisocyanate:

LD50 (Rabbit) > 9400 mg/kg

101-68-8 Diphenylmethane-4,4'-diisocyanate:

LD50 (Rabbit) > 9400 mg/kg

9016-87-9 Diphenylmethane-diisocyanate, isomers and homologues:

LD50 (Rabbit) > 9400 mg/kg

5873-54-1 Diphenylmethane-2,4'-diisocyanate:

LD50 (Rabbit) > 9400 mg/kg

2536-05-2 2,2'-Methylenediphenyl diisocyanate:

LD50 (Rabbit) > 9400 mg/kg

Inhalation: 67815-87-6 Prepolymer based on aromatic polyisocyanate:

Converted acute toxicity point estimate 1,5 mg/l

101-68-8 Diphenylmethane-4,4'-diisocyanate:

LC50 (Rat) > 0,368 mg/l / 4 h

9016-87-9 Diphenylmethane-diisocyanate, isomers and homologues:

LC50 (Rat) > 0,31 mg/l / 4 h

5873-54-1 Diphenylmethane-2,4'-diisocyanate:

LC50 (Rat) > 0,387 mg/l / 4 h

2536-05-2 2,2'-Methylenediphenyl diisocyanate:

LC50 (Rat) > 0,527 mg/l / 4 h

Causes skin irritation.

Causes serious eye irritation.

May cause allergic reactions.

11.2. Information on other hazards Endocrine disrupting properties

No data available.

SECTION 12: Ecological information**12.1. Toxicity**

Aquatic Toxicity

Product: EC50 (daphnia magna): 83 mg/l 48h (OECD202)

ErC 50 (desmodesmus subspicatus): > 100 mg/l / 72 h (OECD 201)

LC 50 (brachydanio rerio): > 100 mg/l / 96 h

NOEC (daphnia magna): > 10 mg/l (OECD 202 Part 2, 21 d)

EC 50 (activated sludge): > 100 mg/L / 3 h (OECD 209)

12.2. Persistence and degradability**Biodegradability:**

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Product: OECD 301 D Biodegradation: 0%, 23d; Not potentially degradable

Stability in water:

Product: OECD 111 Half-life time: 20 h at 25 °C (pH 7)

Volatility (Henry's law constant):

Product: Calculated value = 0.0299 Pa * m³ / mol

The product is classified as biologically not readily degradable. It hydrolyses rapidly in water and is classified as slightly volatile from water.

12.3. Bioaccumulative potential

Enrichment in aquatic organisms is not to be expected.

12.4. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.5. Mobility in soil

No relevant information available.

12.6. Other adverse effects

Ecotoxic effects: The product is classified as harmful to aquatic life with long lasting effects.

General information: Do not allow product to reach ground water, sewers or into the sewage system.

Isocyanate reacts with water at the interface forming CO₂ and a solid insoluble product with high melting point (polyurea). This reaction is accelerated by surfactants (e.g. detergents) or by water soluble solvents. Previous experience shows that polyuria is inert and non-degradable.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Dispose of waste according to applicable legislation. Consult the local waste disposal expert about waste disposal. Non-contaminated waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

List of Wastes Code - residues/unused products

080299 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND PRINTING INKS; wastes from MFSU of other coatings (including ceramic materials); wastes not otherwise specified

List of Wastes Code - used product

080299 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS PRINTING INKS; wastes from MFSU of other coatings (including ceramic materials); wastes not otherwise specified

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information**Land transport (ADR/RID)**

14.1. UN number: not dangerous goods

14.2. UN proper shipping name:

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Not dangerous goods

14.3. Transport hazard class(es):

Not dangerous goods

14.4. Packing group

Not dangerous goods

14.5. Environmental hazards

Not dangerous goods

14.6. Special precautions for user

Not applicable.

Transport/Additional information:

Not dangerous cargo.

Irritating to skin and mucous membranes.

Keep separated from foodstuffs.

SECTION 15: Regulatory information

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

National regulations

This product has to be labelled in accordance with the Ordinance on Hazardous Substances in the latest version.

Employment restrictions

Observe employment restrictions for young people. Observe employment restrictions for expectant and nursing mothers.

Water hazard class:

WGK 1 (self-classification): slightly water endangering.

Other regulations, limitations and prohibitive regulations

Note:

Apply the appropriate local regulations.

15.2. Chemical safety assessment

A chemical safety assessment has been carried out for:

Diphenylmethane-2,4'-diisocyanate

Diphenylmethane-diisocyanate, isomers and homologues

Diphenylmethane-2,4'-diisocyanate

2,2'-Methylenediphenyl diisocyanate

SECTION 16: Other information

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)

CAS: Chemical Abstracts Service CLP: Classification, Labelling and Packaging of substances and mixtures DNEL: Derived No

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Effect Level

d: day(s)

EINECS: European INventory of Existing Commercial chemical Substances

ELINCS: European List of Notified Chemical Substances

ECHA: European Chemicals Agency

EWC: European Waste Catalogue

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

h: hour

LOAEL: Lowest observed adverse effect level

LOAEC: Lowest observed adverse effect concentration

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NOAEL: No observed adverse effect level

NOAEC: No observed adverse effect concentration

NLP: No-Longer Polymers

N/A: not applicable

OECD: Organisation for Economic Co-operation and Development

PNEC: predicted no effect concentration

PBT: Persistent bioaccumulative toxic

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

REACH: Registration, Evaluation, Authorisation of Chemicals

SVHC: substance of very high concern

TRGS: Technische Regeln für Gefahrstoffe

UN: United Nations

VOC: Volatile Organic Compounds

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Skin Irrit. 2; H315	Calculation method
Skin Sens. 1; H317	Calculation method
STOT SE 3; H335	Calculation method

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
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.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

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H412

Harmful to aquatic life with long lasting effects.

Further Information

Classification according to Regulation (EC) No 1272/2008 [CLP] - Classification procedure:

Health hazards: Calculation method.

Environmental hazards: Calculation method.

Physical hazards: On basis of test data and / or calculated and / or estimated.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)