

Hofman Animal Care
7468 DM Enter

Date printed 08.10.2025, Revision 07.10.2025

Version 1.0

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

1.1 Product identifier

Easy2do Glue Komp. A
UFI: 4FYD-797M-8209-0EVJ

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

1.2.1 Relevant uses

Adhesive
2-Component product

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company

Hofman Animal Care
De Leemkoele 2
7468 DM Enter / NETHERLANDS
Phone +31 (0)548 54 52 77
Homepage www.hofmananimalcare.nl
E-mail info@hofmananimalcare.nl

Address enquiries to

Technical information

info@hofmananimalcare.nl

Safety Data Sheet

sdb@chemiebuero.de (No dispatch of safety data sheets)
Safety data sheets are available from the supplier.

1.4 Emergency telephone number

Company

+31 (0)548 54 52 77 (8:00 - 17:00)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

Eye Irrit. 2: H319 Causes serious eye irritation.

2.2 Label elements

Hazard pictograms



The product is required to be labelled in accordance with regulation CLP.

Signal word

WARNING

Hazard statements

H319 Causes serious eye irritation.

Precautionary statements

P280 Wear eye protection / face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice / attention.

2.3 Other hazards

Human health dangers

Contains no ingredients with endocrine-disrupting properties.

Environmental hazards

Does not contain any PBT or vPvB substances.
Contains no ingredients with endocrine-disrupting properties.

Other hazards

Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

3.1 Substances

not applicable

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3.2 Mixtures

The product is a mixture.

Range [%]	Substance
10 - < 25	Ethylenediamine, propoxylated
	CAS: 25214-63-5, EINECS/ELINCS: 500-035-6, Reg-No.: 01-2119471485-32-XXXX
	GHS/CLP: Eye Irrit. 2: H319

Comment on component parts

For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Take off contaminated clothing and wash before reuse.
Remove affected person from danger area, lay down.
In the event of symptoms seek medical treatment.
If unconscious, place in recovery position and get medical attention immediately.

Inhalation

Ensure supply of fresh air.
If breathing is irregular or stopped, administer artificial respiration.
Consult a doctor immediately.

Skin contact

When in contact with the skin, clean with soap and water.
Consult a doctor if skin irritation persists.

Eye contact

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.

Ingestion

Rinse mouth.
Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray jet.
Carbon dioxide.
Dry powder.
Fire extinguishing method of surrounding areas must be considered.

Extinguishing media that must not be used

Full water jet

5.2 Special hazards arising from the substance or mixture

In the event of fire the following can be released:
Carbon monoxide (CO)
Carbon dioxide (CO₂)

5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.
Use self-contained breathing apparatus.
Collect contaminated firefighting water separately, must not be discharged into the drains.
Fire residues must be disposed of in accordance within the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove persons to safety.
Ensure adequate ventilation.
Use breathing apparatus if exposed to vapours/aerosol.

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6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.
Retain and dispose of contaminated wash water.

6.3 Methods and material for containment and cleaning up

Ensure adequate ventilation.
Wipe up with absorbent material (e.g. Rag).
Pick up with absorbent material (e.g. sand, universal absorbent, diatomaceous earth).
Dispose of absorbed material in accordance within the regulations (Section 13).

6.4 Reference to other sections

See SECTION 7+8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.
Avoid contact with eyes and skin. Use personal protective equipment.

Take off contaminated clothing and wash before reuse.
After worktime and before work breaks the affected skin areas must be thoroughly cleaned.
Do not eat, drink or smoke when using this product.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Keep container tightly closed and store it at a well-ventilated place.

Storage class (TRGS 510)

Storage class 10 (VCI)

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored DE (TRGS 900)

not relevant

Ingredients with occupational exposure limits to be monitored EU (2004/37/EG)

not relevant

DNEL

Substance
Ethylenediamine, propoxylated, CAS: 25214-63-5
Industrial, inhalative, Long-term - systemic effects, 35,2 mg/m ³
Industrial, dermal, Long-term - systemic effects, 5 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 10,4 mg/m ³
general population, dermal, Long-term - systemic effects, 3 mg/kg bw/day
general population, oral, Long-term - systemic effects, 3 mg/kg bw/day

PNEC

Substance
Ethylenediamine, propoxylated, CAS: 25214-63-5
freshwater, 0,085 mg/L
seawater, 0,009 mg/L
sediment (freshwater), 0,193 mg/kg sediment dw
sediment (seawater), 0,019 mg/kg sediment dw
soil, 0,018 mg/kg soil dw
sewage treatment plants (STP), 70 mg/L

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8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
Eye protection	Face shield. (EN 166) Safety glasses. (EN 166:2001)
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. Nitrile butyl rubber (NBR) > 0,11 mm, > 480 min, (EN 374-1/-2/-3).
Skin protection	Protective clothing (EN 340)
Other	Do not breathe vapour/spray. Avoid contact with eyes and skin. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
Respiratory protection	If workplace limit values are exceeded or if there is insufficient ventilation: Short term: filter apparatus, filter A. (DIN EN 14387)
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	Comply with applicable environmental regulations limiting discharge to air, water and soil.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Form	liquid
Color	whitish
Odor	characteristic
Odour threshold	No information available.
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point or initial boiling point and boiling range [°C]	287,6
Flash point [°C]	> 200
Flammability	Combustible not flammable
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Oxidising properties	not applicable
Vapour pressure/gas pressure [kPa]	0,0001 (20°C)
Density [g/cm³]	No information available.
Relative density	No information available.
Bulk density [kg/m³]	not applicable
Solubility in water [g/L]	insoluble
Solubility other solvents	No information available.
Partition coefficient n-octanol/water (log value)	not applicable
Kinematic viscosity	No information available.
Relative vapour density	No information available.
Melting point [°C]	No information available.
Auto-ignition temperature [°C]	305
Decomposition temperature [°C]	not relevant
Particle characteristics	not applicable

9.2 Other information

Temperature class (ATEX): T2

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SECTION 10: Stability and reactivity

10.1 Reactivity

When handled and stored properly, no hazardous reactions are anticipated.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

Oxidizing agent

10.6 Hazardous decomposition products

No decomposition if used and stored according to specifications.

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SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity Based on the available information, the classification criteria are not fulfilled.

Substance
Ethylenediamine, propoxylated, CAS: 25214-63-5
LD50, oral, Rat, > 2000 mg/kg bw

Acute dermal toxicity Based on the available information, the classification criteria are not fulfilled.

Substance
Ethylenediamine, propoxylated, CAS: 25214-63-5
LD50, dermal, Rat, > 2000 mg/kg bw

Acute inhalational toxicity Based on the available information, the classification criteria are not fulfilled.

Serious eye damage/irritation Irritant
Calculation method

Substance
Ethylenediamine, propoxylated, CAS: 25214-63-5
Rabbit, in vivo, OECD 405, irritant

Skin corrosion/irritation Based on the available information, the classification criteria are not fulfilled.

Substance
Ethylenediamine, propoxylated, CAS: 25214-63-5
Rabbit, in vivo, OECD 404, Slight irritant effect - does not require labelling.

Respiratory or skin sensitisation Based on the available information, the classification criteria are not fulfilled.

Substance
Ethylenediamine, propoxylated, CAS: 25214-63-5
Guinea pig, in vivo, OECD 406, non-sensitizing

Specific target organ toxicity — single exposure Based on the available information, the classification criteria are not fulfilled.

Specific target organ toxicity — repeated exposure Based on the available information, the classification criteria are not fulfilled.

Substance
Ethylenediamine, propoxylated, CAS: 25214-63-5
NOAEL, oral, Rat, 300 mg/kg bw/day (subchronic), no adverse effect observed

Mutagenicity Based on the available information, the classification criteria are not fulfilled.

Reproduction toxicity Based on the available information, the classification criteria are not fulfilled.

- Fertility

Substance
Ethylenediamine, propoxylated, CAS: 25214-63-5
NOAEL, oral, Rat, 1000 mg/kg bw/d, no adverse effect observed

- Development

Substance
Ethylenediamine, propoxylated, CAS: 25214-63-5
NOAEL, oral, Rat, 1000 mg/kg, no adverse effect observed

Carcinogenicity Based on the available information, the classification criteria are not fulfilled.

Aspiration hazard Based on the available information, the classification criteria are not fulfilled.

General remarks

Toxicological data of complete product are not available.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties Contains no ingredients with endocrine-disrupting properties.

11.2.2 Other information none

SECTION 12: Ecological information

12.1 Toxicity

Based on the available information, the classification criteria are not fulfilled.

Substance
Ethylenediamine, propoxylated, CAS: 25214-63-5
LC50, (96h), <i>Leuciscus idus</i> , 4600 mg/l
EC50, (48h), <i>Daphnia magna</i> , > 100 mg/l
ErC50, (72h), <i>Desmodesmus subspicatus</i> , 150,67 mg/l

12.2 Persistence and degradability

Behaviour in environment compartments No information available.

Behaviour in sewage plant No information available.

Biological degradability

Substance
Ethylenediamine, propoxylated, CAS: 25214-63-5
(28d), 9 %, OECD 301 F
(28d), 20 - 36 %, OECD 302 B

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

12.7 Other adverse effects

Ecological data of complete product are not available.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Dispose of contents/container in accordance with local/national regulation.

Waste no. (recommended)

080409*

Contaminated packaging

Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended)

150110* packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

14.1 UN number or ID number

Transport by land according to ADR/RID

not applicable

Inland navigation (ADN)

not applicable

Marine transport in accordance with IMDG

not applicable

Air transport in accordance with IATA not applicable

14.2 UN proper shipping name

Transport by land according to ADR/RID

NO DANGEROUS GOODS

Inland navigation (ADN)

NO DANGEROUS GOODS

Marine transport in accordance with IMDG

NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

Transport by land according to ADR/RID

not applicable

Inland navigation (ADN)

not applicable

Marine transport in accordance with IMDG

not applicable

Air transport in accordance with IATA not applicable

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14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

EEC-REGULATIONS	2008/98/EG (2000/532/EC); 2010/75/EU; 2004/42/EG; (EG) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EWG ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 2024/573; (EU) 2019/1148; (EU) 2019/1021, (EU) 2023/707
- Comment on component parts	Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
- Annex XIV (REACH)	According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not contain any substances $\geq 0.1\%$ that are subject to authorisation.
- Annex XVII (REACH)	According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product contains $\geq 0.1\%$ of substances with the following restrictions. 75 According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product is subject to the following restrictions. 3
TRANSPORT-REGULATIONS	ADR (2025); IMDG-Code (2025, 42. Amdt.); IATA-DGR (2025)
NATIONAL REGULATIONS (DE):	Hazardous Substances Ordinance - GefStoffV 21.07.2021; Detergent and Cleaning Agents Act - WRMG; Federal Water Act - WHG; Technical Rule for Hazardous Substances - TRGS: 200, 220, 615, 900, 905.
- Water hazard class	1, conf. AwSV, 18.04.2017
- Decree for case of interference, observe limits	not applicable
- Class. according to TA-Luft	1 - < 5 %: 5.2.5.
- Storage class (TRGS 510)	Storage class 10 (VCI)
- Observe employment restrictions for people	Observe employment restrictions for young people.
- VOC (2010/75/CE)	No information available.
- Other regulations	TRGS 400: Risk assessment TRGS 510: Storage of hazardous substances in non-stationary containers

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

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SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

H319 Causes serious eye irritation.

16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ATE = acute toxicity estimate
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging
DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level
EC50 = Median effective concentration
ECB = European Chemicals Bureau
EEC = European Economic Community
EINECS = European Inventory of Existing Commercial Chemical Substances
EL50 = Median effective loading
ELINCS = European List of Notified Chemical Substances
EmS = Emergency Schedules
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50 = Inhibition concentration, 50%
IMDG = International Maritime Code for Dangerous Goods
IUCLID = International Uniform Chemical Information Database
IVIS = In vitro irritation score
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
LC0 = lethal concentration, 0%
LOAEL = lowest-observed-adverse-effect level
LL50 = Median lethal loading
LQ = Limited Quantities
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
NOAEL = No Observed Adverse Effect Level
NOEC = No Observed Effect Concentration
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
STP = Sewage Treatment Plant
TLV®/TWA = Threshold limit value – time-weighted average
TLV®STEL = Threshold limit value – short-time exposure limit
VOC = Volatile Organic Compounds
vPvB = very Persistent and very Bioaccumulative

16.3 Other information

Classification procedure

Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)

Modified position

none

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

1.1 Product identifier

Easy2do Glue Komp. B
UFI: SMYD-79MD-V209-A41P

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

1.2.1 Relevant uses

Adhesive
2-Component product

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company

Hofman Animal Care
De Leemkoele 2
7468 DM Enter / NETHERLANDS
Phone +31 (0)548 54 52 77
Homepage www.hofmananimalcare.nl
E-mail info@hofmananimalcare.nl

Address enquiries to

Technical information

info@hofmananimalcare.nl

Safety Data Sheet

sdb@chemiebuero.de (No dispatch of safety data sheets)
Safety data sheets are available from the supplier.

1.4 Emergency telephone number

Company

+31 (0)548 54 52 77 (8:00 - 17:00)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

Skin Irrit. 2: H315 Causes skin irritation.
Skin Sens. 1: H317 May cause an allergic skin reaction.
Eye Irrit. 2: H319 Causes serious eye irritation.
Resp. Sens. 1: H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
STOT SE 3: H335 May cause respiratory irritation.
Carc. 2: H351 Suspected of causing cancer.
STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure.
Acute Tox. 4: H332 Harmful if inhaled.

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2.2 Label elements

The product is required to be labelled in accordance with regulation CLP.

Hazard pictograms



Signal word

DANGER

Contains:

4,4'-Methylenediphenyl diisocyanate
o-(p-isocyanatobenzyl)phenyl isocyanate
Diphenylmethanediisocyanate, isomeres and oligomers

Hazard statements

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
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.
H332 Harmful if inhaled.

Precautionary statements

P201 Obtain special instructions before use.
P260 Do not breathe vapours / spray.
P280 Wear protective gloves / protective clothing / eye protection / face protection.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER / doctor.
P362+P364 Take off contaminated clothing and wash it before reuse.
P312 Call a POISON CENTER / doctor if you feel unwell.
P501 Dispose of contents/container in accordance with local/national regulation.

Special labelling

EUH204 Contains isocyanates. May produce an allergic reaction.
As from 24 August 2023 adequate training is required before industrial or professional use

2.3 Other hazards

Human health dangers

Contains no ingredients with endocrine-disrupting properties.
Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

Environmental hazards

Does not contain any PBT or vPvB substances.
Contains no ingredients with endocrine-disrupting properties.

Other hazards

Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

The product is a mixture.

Range [%]	Substance
25 - < 50	4,4'-Methylenediphenyl diisocyanate CAS: 101-68-8, EINECS/ELINCS: 202-966-0, EU-INDEX: 615-005-00-9, Reg-No.: 01-2119457014-47-XXXX GHS/CLP: Skin Irrit. 2: H315 - Skin Sens. 1: H317 - Eye Irrit. 2: H319 - Acute Tox. 4: H332 - Resp. Sens. 1: H334 - STOT SE 3: H335 - Carc. 2: H351 - STOT RE 2: H373 - EUH204 SCL [%]: >= 0,1: Resp. Sens. 1: H334, >= 5: Skin Irrit. 2: H315, >= 5: Eye Irrit. 2: H319, >= 5: STOT SE 3: H335
25 - < 50	o-(p-isocyanatobenzyl)phenyl isocyanate CAS: 5873-54-1, EINECS/ELINCS: 227-534-9, EU-INDEX: 615-005-00-9, Reg-No.: 01-2119480143-45-XXXX GHS/CLP: Carc. 2: H351 - Acute Tox. 4: 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 - EUH204 SCL [%]: >= 5: Eye Irrit. 2: H319, >= 0,1: Resp. Sens. 1: H334, >= 5: Skin Irrit. 2: H315, >= 5: STOT SE 3: H335
10 - < 25	Diphenylmethanediisocyanate, isomers and oligomers CAS: 32055-14-4, EINECS/ELINCS: 500-079-6, Reg-No.: 01-2119457024-46-XXXX GHS/CLP: Skin Irrit. 2: H315 - Skin Sens. 1: H317 - Eye Irrit. 2: H319 - Acute Tox. 4: H332 - Resp. Sens. 1: H334 - STOT SE 3: H335 - Carc. 2: H351 - STOT RE 2: H373 SCL [%]: >= 0,1: Resp. Sens. 1: H334, >= 5: Skin Irrit. 2: H315, >= 5: Eye Irrit. 2: H319, >= 5: STOT SE 3: H335

Comment on component parts

For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Take off contaminated clothing and wash before reuse.
Remove affected person from danger area, lay down.
In the event of symptoms seek medical treatment.
If unconscious, place in recovery position and get medical attention immediately.

Inhalation

Ensure supply of fresh air.
If breathing is irregular or stopped, administer artificial respiration.
Consult a doctor immediately.

Skin contact

In the event of contact with the skin wash immediately with polyethylene glycol, then with plenty of water.
When in contact with the skin, clean with soap and water.
If skin irritation or rash occurs: Get medical advice/attention.

Eye contact

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.

Ingestion

Rinse mouth.
Do not induce vomiting.
Seek medical advice.
Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Allergic reactions

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray jet.
Carbon dioxide.
Dry powder.
Fire extinguishing method of surrounding areas must be considered.

Extinguishing media that must not be used

Full water jet

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5.2 Special hazards arising from the substance or mixture

In the event of fire the following can be released:

Carbon monoxide (CO)

Carbon dioxide (CO₂)

Nitrogen oxides (NO_x).

Attention! Reaction with water produces CO₂-gas.

5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.

Use self-contained breathing apparatus.

Cool containers at risk with water spray jet.

Collect contaminated firefighting water separately, must not be discharged into the drains.

Fire residues must be disposed of in accordance within the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove persons to safety.

Ensure adequate ventilation.

Use breathing apparatus if exposed to vapours/aerosol.

Wear suitable protective equipment. For personal protection see SECTION 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

Retain and dispose of contaminated wash water.

6.3 Methods and material for containment and cleaning up

Ensure adequate ventilation.

Pick up with absorbent material (e.g. sand, universal absorbent, diatomaceous earth).

Leave to react for at least 30 minutes.

For the absorbing process do not use organic materials (e.g. sawdust).

The leak area can be decontaminated with the following recommended decontamination solution:

Decontaminant 1: 8-10% sodium carbonate and 2% aqueous liquid soap.

Decontaminant 2: Concentrated ammonia solution: 3 - 8%, Liquid detergent: 0.2 - 2%, Water: balance up to 100%.

Test atmosphere for MDI vapour.

Dispose of absorbed material in accordance within the regulations (Section 13).

6.4 Reference to other sections

See SECTION 7+8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.

Vacuuming in situ required.

Avoid contact with eyes and skin. Use personal protective equipment.

Special instructions for safe handling must be obtained before use.

Take off contaminated clothing and wash before reuse.

After worktime and before work breaks the affected skin areas must be thoroughly cleaned.

Do not eat, drink or smoke when using this product.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Prevent penetration into the ground.

Do not store with amines

Keep away from water.

Keep container tightly closed and store it at a well-ventilated place.

Keep in a cool place. Store in a dry place.

Keep away from water or from damp surroundings.

Protect from sun.

Protect from contamination.

Storage class (TRGS 510)

Storage class 10 (VCI)

7.3 Specific end use(s)

See product use, SECTION 1.2

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SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored DE (TRGS 900)

Substance
o-(p-isocyanatobenzyl)phenyl isocyanate
CAS: 5873-54-1, EINECS/ELINCS: 227-534-9, EU-INDEX: 615-005-00-9, Reg-No.: 01-2119480143-45-XXXX
Exposure limit: 0,05 mg/m³, AGS, 11, 12
Factor: 1;=2=(I)
4,4'-Methylenediphenyl diisocyanate
CAS: 101-68-8, EINECS/ELINCS: 202-966-0, EU-INDEX: 615-005-00-9, Reg-No.: 01-2119457014-47-XXXX
Exposure limit: 0,05 mg/m³, E, DFG, 11, 12, H, Sah, Y
Factor: 1;=2=(I)
Diphenylmethanediisocyanate, isomeres and oligomers
CAS: 32055-14-4, EINECS/ELINCS: 500-079-6, Reg-No.: 01-2119457024-46-XXXX
Exposure limit: 0,05 mg/m³, (MDI) E, DFG, H, Sah, Y, 12
Factor: 1;=2=(I)

Ingredients with occupational exposure limits to be monitored EU (2004/37/EG)

Substance / EC LIMIT VALUES
o-(p-isocyanatobenzyl)phenyl isocyanate
CAS: 5873-54-1, EINECS/ELINCS: 227-534-9, EU-INDEX: 615-005-00-9, Reg-No.: 01-2119480143-45-XXXX
Eight hours: 0,010 mg/m³, (NCO)
Short-term (15-minute): 0,020 mg/m³
4,4'-Methylenediphenyl diisocyanate
CAS: 101-68-8, EINECS/ELINCS: 202-966-0, EU-INDEX: 615-005-00-9, Reg-No.: 01-2119457014-47-XXXX
Eight hours: 0,010 mg/m³, (NCO)
Short-term (15-minute): 0,020 mg/m³

DNEL

Substance
Diphenylmethanediisocyanate, isomeres and oligomers, CAS: 32055-14-4
Industrial, inhalative, Acute - local effects, 0,1 mg/m³
Industrial, inhalative, Long-term - local effects, 0,05 mg/m³
general population, inhalative, Long-term - local effects, 0,025 mg/m³
general population, inhalative, Acute - local effects, 0,05 mg/m³
o-(p-isocyanatobenzyl)phenyl isocyanate, CAS: 5873-54-1
Industrial, inhalative, Long-term - local effects, 0,05 mg/m³
Industrial, inhalative, Acute - local effects, 0,1 mg/m³
general population, inhalative, Long-term - local effects, 0,025 mg/m³
general population, inhalative, Acute - local effects, 0,05 mg/m³
4,4'-Methylenediphenyl diisocyanate, CAS: 101-68-8
Industrial, inhalative, Long-term - local effects, 0,05 mg/m³
Industrial, inhalative, Acute - local effects, 0,1 mg/m³
general population, inhalative, Acute - local effects, 0,05 mg/m³
general population, inhalative, Long-term - local effects, 0,025 mg/m³

PNEC

Substance
Diphenylmethanediisocyanate, isomeres and oligomers, CAS: 32055-14-4
freshwater, 3,7 µg/L
seawater, 0,37 µg/L
sediment (freshwater), 11,7 mg/kg sediment dw
sediment (seawater), 1,17 mg/kg sediment dw
soil, 2,33 mg/kg soil dw

o-(p-isocyanatobenzyl)phenyl isocyanate, CAS: 5873-54-1

freshwater, 1 mg/l

seawater, 0,1 mg/l

sewage treatment plants (STP), 1 mg/l

soil, 1 mg/kg

4,4'-Methylenediphenyl diisocyanate, CAS: 101-68-8

freshwater, 3,7 µg/L

seawater, 0,37 µg/L

sediment (freshwater), 11,7 mg/kg sediment dw

sediment (seawater), 1,17 mg/kg sediment dw

soil, 2,33 mg/kg soil dw

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
Eye protection	Face shield. (EN 166) Safety glasses. (EN 166:2001)
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. Nitrile butyl rubber (NBR) > 0,11 mm, > 480 min, (EN 374-1/-2/-3).
Skin protection	Protective clothing (EN 340)
Other	Do not breathe vapour/spray. Avoid contact with eyes and skin. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
Respiratory protection	If workplace limit values are exceeded or if there is insufficient ventilation: Short term: filter apparatus, filter A. (DIN EN 14387)
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	Comply with applicable environmental regulations limiting discharge to air, water and soil.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Form	liquid
Color	brown
Odor	characteristic
Odour threshold	No information available.
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point or initial boiling point and boiling range [°C]	> 300 (1013 hPa)
Flash point [°C]	> 140
Flammability	Combustible not flammable
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Oxidising properties	not applicable
Vapour pressure/gas pressure [kPa]	0,0003 (70°C)
Density [g/cm³]	1,13 - 1,23 (23°C)
Relative density	No information available.
Bulk density [kg/m³]	not applicable
Solubility in water [g/L]	insoluble
Solubility other solvents	No information available.
Partition coefficient n-octanol/water (log value)	not applicable
Kinematic viscosity	No information available.
Relative vapour density	No information available.
Melting point [°C]	No information available.
Auto-ignition temperature [°C]	> 600
Decomposition temperature [°C]	not relevant
Particle characteristics	not applicable

9.2 Other information

Temperature class (ATEX): T1

SECTION 10: Stability and reactivity

10.1 Reactivity

When handled and stored properly, no hazardous reactions are anticipated.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with alcohols, amines, aqueous acids and alkalis.
Reactions with water, with formation of carbon dioxide.

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

See SECTION 10.3.

10.6 Hazardous decomposition products

No decomposition if used and stored according to specifications.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity

Based on the available information, the classification criteria are not fulfilled.

Substance
Diphenylmethanediisocyanate, isomeres and oligomers, CAS: 32055-14-4
LD50, oral, Rat, > 10000 mg/kg, OECD 401
o-(p-isocyanatobenzyl)phenyl isocyanate, CAS: 5873-54-1
LD50, oral, Rat, > 2000 mg/kg
4,4'-Methylenediphenyl diisocyanate, CAS: 101-68-8
LD50, oral, Rat, > 2000 mg/kg

Acute dermal toxicity

Based on the available information, the classification criteria are not fulfilled.

Substance
Diphenylmethanediisocyanate, isomeres and oligomers, CAS: 32055-14-4
LD50, dermal, Rabbit, > 9400 mg/kg, OECD 402
o-(p-isocyanatobenzyl)phenyl isocyanate, CAS: 5873-54-1
LD50, dermal, Rabbit, > 9400 mg/kg
4,4'-Methylenediphenyl diisocyanate, CAS: 101-68-8
LD50, dermal, Rabbit, > 9400 mg/kg, OECD 402

Acute inhalational toxicity

Based on the available information, the classification criteria are fulfilled.

Product
ATE-mix, inhalativ (mist), > 1,5 - 3 mg/l
ATE-mix, inhalation (vapour), > 44 mg/l
Substance
Diphenylmethanediisocyanate, isomeres and oligomers, CAS: 32055-14-4
LD50, inhalativ (mist), Rat, 310 mg/m ³ , OECD 403, 4h
NOAEL, inhalative, Rat, 0,2 mg/m ³
LOAEL, inhalative, Rat, 1 mg/m ³
ATE, inhalation (vapour), 11 mg/l, 4h
o-(p-isocyanatobenzyl)phenyl isocyanate, CAS: 5873-54-1
LC50, inhalative, Rat, 0,387 mg/l, OECD 403, 4h
ATE, inhalativ (dust/mist), 1,5 mg/l
4,4'-Methylenediphenyl diisocyanate, CAS: 101-68-8
LC50, inhalativ (dust/mist), Rat, 431,18 mg/m ³ , OECD 403, 4h
LC50, inhalativ (dust/mist), Rat, 0,49 mg/l, 4h
LC50, inhalative, Rat, 0,368 mg/l, OECD 403, 4h
LC50, inhalative, Rat, > 2,24 mg/l/1h, OECD 403
ATE, inhalativ (dust/mist), 1,5 mg/l, 4h

Serious eye damage/irritation

Irritant
Calculation method

Substance
Diphenylmethanediisocyanate, isomeres and oligomers, CAS: 32055-14-4
Eye, irritant
o-(p-isocyanatobenzyl)phenyl isocyanate, CAS: 5873-54-1
Eye, Human, irritant, occupational case reports (NIOSH 1994),
4,4'-Methylenediphenyl diisocyanate, CAS: 101-68-8
Eye, Rabbit, OECD 405, irritant

Skin corrosion/irritation

Irritant
Calculation method

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Substance
Diphenylmethanediisocyanate, isomeres and oligomers, CAS: 32055-14-4
dermal, irritant
o-(p-isocyanatobenzyl)phenyl isocyanate, CAS: 5873-54-1
dermal, Human, irritant, occupational case reports (NIOSH 1994),
4,4'-Methylenediphenyl diisocyanate, CAS: 101-68-8
Rabbit, in vivo, OECD 404, irritant

Respiratory or skin sensitisation

May cause an allergic skin reaction.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Calculation method

Substance
Diphenylmethanediisocyanate, isomeres and oligomers, CAS: 32055-14-4
dermal, sensitising
inhalative, sensitising
o-(p-isocyanatobenzyl)phenyl isocyanate, CAS: 5873-54-1
dermal, sensitising
inhalative, sensitising
4,4'-Methylenediphenyl diisocyanate, CAS: 101-68-8
dermal, mouse, in vivo (LLNA), OECD 429, sensitising
inhalative, Rat, in vivo, OECD-GD 39, sensitising
Guinea pig, OECD 406, sensitising

Specific target organ toxicity — single exposure

May cause respiratory irritation.
Calculation method

Substance
Diphenylmethanediisocyanate, isomeres and oligomers, CAS: 32055-14-4
inhalative, irritant
o-(p-isocyanatobenzyl)phenyl isocyanate, CAS: 5873-54-1
inhalative, irritant
4,4'-Methylenediphenyl diisocyanate, CAS: 101-68-8
inhalative, irritant

Specific target organ toxicity — repeated exposure

May cause damage to organs through prolonged or repeated exposure.
Calculation method

Substance
Diphenylmethanediisocyanate, isomeres and oligomers, CAS: 32055-14-4
LOAEC, inhalative, Rat, 1 mg/m ³ (chronic), adverse effect observed
o-(p-isocyanatobenzyl)phenyl isocyanate, CAS: 5873-54-1
LOAEC, inhalative, Rat, 1 mg/m ³ , In vivo study, adverse effect observed
4,4'-Methylenediphenyl diisocyanate, CAS: 101-68-8
LOAEC, inhalative, Rat, 1 mg/m ³ , adverse effect observed

Mutagenicity

Based on the available information, the classification criteria are not fulfilled.

Substance
Diphenylmethanediisocyanate, isomeres and oligomers, CAS: 32055-14-4
in vitro, negativ
in vivo, negativ
o-(p-isocyanatobenzyl)phenyl isocyanate, CAS: 5873-54-1
in vitro, negativ
in vivo, negativ
4,4'-Methylenediphenyl diisocyanate, CAS: 101-68-8
inhalative, Rat, in vivo, OECD 474, negativ

Reproduction toxicity

Based on the available information, the classification criteria are not fulfilled.

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- Fertility

Substance
Diphenylmethanediisocyanate, isomeres and oligomers, CAS: 32055-14-4
NOAEC, inhalative, Rat, 200 µg/m³ (chronic), no adverse effect observed
o-(p-isocyanatobenzyl)phenyl isocyanate, CAS: 5873-54-1
NOAEC, inhalative, Rat, 0,2 mg/m³, negativ
4,4'-Methylenediphenyl diisocyanate, CAS: 101-68-8
NOAEC, inhalative, Rat, 200 µg/m³, no adverse effect observed

- Development

Substance
Diphenylmethanediisocyanate, isomeres and oligomers, CAS: 32055-14-4
NOAEC, inhalative, Rat, 4 mg/m³ (subacute), no adverse effect observed
o-(p-isocyanatobenzyl)phenyl isocyanate, CAS: 5873-54-1
NOAEC, inhalative, Rat, 4 mg/m³, no adverse effect observed
4,4'-Methylenediphenyl diisocyanate, CAS: 101-68-8
NOAEC, inhalative, Rat, 4 mg/m³, no adverse effect observed

Carcinogenicity

Suspected of causing cancer.
Calculation method

Substance
Diphenylmethanediisocyanate, isomeres and oligomers, CAS: 32055-14-4
NOAEC, inhalative, Rat, 1 mg/m³ (chronic), adverse effect observed
o-(p-isocyanatobenzyl)phenyl isocyanate, CAS: 5873-54-1
NOAEC, inhalative, Rat, 1 mg/m³, adverse effect observed
4,4'-Methylenediphenyl diisocyanate, CAS: 101-68-8
NOAEC, Rat, 1 mg/m³, adverse effect observed

Aspiration hazard

Based on the available information, the classification criteria are not fulfilled.

General remarks

Toxicological data of complete product are not available.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

11.2.2 Other information

none

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SECTION 12: Ecological information

12.1 Toxicity

Based on the available information, the classification criteria are not fulfilled.

Substance
Diphenylmethanediisocyanate, isomeres and oligomers, CAS: 32055-14-4
LC50, (96h), Danio rerio, > 1000 mg/l, OECD 203
EC50, (72h), Scenedesmus subspicatus, > 1640 mg/l, OECD 201
EC50, (24h), Daphnia magna, > 1000 mg/l, OECD 202
NOEC, (21d), Daphnia magna, > 10 mg/l, OECD 202
o-(p-isocyanatobenzyl)phenyl isocyanate, CAS: 5873-54-1
LC50, (96h), Fish, > 1000 mg/l
EC50, (3h), Bacteria, > 100 mg/l, OECD 209
EC50, (24h), Daphnia magna, > 1000 mg/l
NOEC, (21d), Daphnia magna, > 10 mg/l, OECD 202
ErC50, (72h), Scenedesmus subspicatus, > 1640 mg/l, OECD 201
4,4'-Methylenediphenyl diisocyanate, CAS: 101-68-8
LC50, (96h), Brachidanio rerio, > 100 mg/l, OECD 203
EC50, (3h), Microorganisms, > 1000 mg/l, OECD 209
EL50, (48h), Daphnia magna, 9 mg/l, OECD 202
NOEC, (21d), Daphnia magna, >= 10 mg/l, OECD 211
ErC50, (72h), Desmodesmus subspicatus, > 100 mg/l, OECD 201

12.2 Persistence and degradability

Behaviour in environment compartments No information available.

Behaviour in sewage plant No information available.

Biological degradability

Substance
o-(p-isocyanatobenzyl)phenyl isocyanate, CAS: 5873-54-1
(28d), 0 %, OECD 302 C
4,4'-Methylenediphenyl diisocyanate, CAS: 101-68-8
(28d), 0 %, OECD 301 F
(28d), 0 %, OECD 302 C

12.3 Bioaccumulative potential

Substance
o-(p-isocyanatobenzyl)phenyl isocyanate, CAS: 5873-54-1
BCF, 200, OECD 305
log Pow, 4,52 (22°C; pH=7)
4,4'-Methylenediphenyl diisocyanate, CAS: 101-68-8
BCF, 200, OECD 305
log Pow, 4,51 (22°C, pH: 7), OECD 117

12.4 Mobility in soil

Substance
4,4'-Methylenediphenyl diisocyanate, CAS: 101-68-8
log Koc: 4,5

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12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

12.7 Other adverse effects

Ecological data of complete product are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Dispose of contents/container in accordance with local/national regulation.

Waste no. (recommended)

080501*

Contaminated packaging

Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended)

150110* packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

14.1 UN number or ID number

Transport by land according to ADR/RID

not applicable

Inland navigation (ADN)

not applicable

Marine transport in accordance with IMDG

not applicable

Air transport in accordance with IATA not applicable

14.2 UN proper shipping name

Transport by land according to ADR/RID

NO DANGEROUS GOODS

Inland navigation (ADN)

NO DANGEROUS GOODS

Marine transport in accordance with IMDG

NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

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14.3 Transport hazard class(es)

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Maritime transport in bulk according to IMO instruments

not applicable

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SECTION 15: Regulatory information

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

EEC-REGULATIONS	2008/98/EG (2000/532/EC); 2010/75/EU; 2004/42/EG; (EG) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EWG ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 2024/573; (EU) 2019/1148; (EU) 2019/1021, (EU) 2023/707
- Comment on component parts	Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
- Annex XIV (REACH)	According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not contain any substances $\geq 0.1\%$ that are subject to authorisation.
- Annex XVII (REACH)	According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product contains $\geq 0.1\%$ of substances with the following restrictions. 56 a), 56 b), 74, 75 According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product is subject to the following restrictions. 3
TRANSPORT-REGULATIONS	ADR (2025); IMDG-Code (2025, 42. Amdt.); IATA-DGR (2025)
NATIONAL REGULATIONS (DE):	Hazardous Substances Ordinance - GefStoffV 21.07.2021; Detergent and Cleaning Agents Act - WRMG; Federal Water Act - WHG; Technical Rule for Hazardous Substances - TRGS: 200, 220, 615, 900, 905.
- Water hazard class	1, conf. AwSV, 18.04.2017
- Decree for case of interference, observe limits	not applicable
- Class. according to TA-Luft	5.2.5.
- Storage class (TRGS 510)	Storage class 10 (VCI)
- Observe employment restrictions for people	Observe employment restrictions for young people.
- VOC (2010/75/CE)	No information available.
- Other regulations	TRGS 400: Risk assessment TRGS 500: Protective measures

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

H373 May cause damage to organs through prolonged or repeated exposure through inhalation.
EUH204 Contains isocyanates. May produce an allergic reaction.
H373 May cause damage to organs through prolonged or repeated exposure.
H351 Suspected of causing cancer.
H335 May cause respiratory irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H332 Harmful if inhaled.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H315 Causes skin irritation.

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16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ATE = acute toxicity estimate
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging
DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level
EC50 = Median effective concentration
ECB = European Chemicals Bureau
EEC = European Economic Community
EINECS = European Inventory of Existing Commercial Chemical Substances
EL50 = Median effective loading
ELINCS = European List of Notified Chemical Substances
EmS = Emergency Schedules
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50 = Inhibition concentration, 50%
IMDG = International Maritime Code for Dangerous Goods
IUCLID = International Uniform Chemical Information Database
IVIS = In vitro irritation score
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
LC0 = lethal concentration, 0%
LOAEL = lowest-observed-adverse-effect level
LL50 = Median lethal loading
LQ = Limited Quantities
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
NOAEL = No Observed Adverse Effect Level
NOEC = No Observed Effect Concentration
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
STP = Sewage Treatment Plant
TLV®/TWA = Threshold limit value – time-weighted average
TLV®STEL = Threshold limit value – short-time exposure limit
VOC = Volatile Organic Compounds
vPvB = very Persistent and very Bioaccumulative

16.3 Other information

Classification procedure

Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)
Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method)
Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)
Resp. Sens. 1: H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. (Calculation method)
STOT SE 3: H335 May cause respiratory irritation. (Calculation method)
Carc. 2: H351 Suspected of causing cancer. (Calculation method)
STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure. (Calculation method)
Acute Tox. 4: H332 Harmful if inhaled. (Calculation method)

Modified position

15.1

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