

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

EGOFLEX 423

Revision date: 24.08.2023

Product code: 343370000

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Special labelling of certain mixtures

EUH204 Contains isocyanates. May produce an allergic reaction.

2.3. Other hazards

This substance / mixture does not contain components in concentrations of 0.1% or higher, which are classified as either persistent, bioaccumulating and toxic (PBT) or very persistent and very bioaccumulating (vPvB).

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Chemical characterization**

filled, reactive polyurethane polymer

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
77703-56-1	Urea,N,N''-(methylenedi-4,1-phenylene)bisN'-butyl			< 5 %
	416-600-4		01-0000016345-72	
	Aquatic Chronic 4; H413			
932742-30-8	isophoronedialdimine			< 1 %
	700-071-4		01-2119880654-28	
	Skin Sens. 1B, Aquatic Chronic 3; H317 H412			
613222-52-9	1,6-hexanedialdimine			< 1 %
	479-930-8		01-2120768758-32	
	Eye Dam. 1, Skin Sens. 1, STOT SE 3; H318 H317 H335			
192526-20-8	Reaction product of hexamethylene diisocyanate, oligomer and mercaptopropyltrimethoxysilane			< 1 %
	924-669-1		01-2120768758-32	
	Skin Sens. 1A; H317			
1065336-91-5	Pentamethylpiperidylsebacate			< 0,25 %
	915-687-0		01-2119491304-40	
	Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 1; H317 H400 H410			
101-68-8	4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate			< 0,1 %
	202-966-0	615-005-00-9		
	Carc. 2, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, STOT SE 3, STOT RE 2; H351 H332 H315 H319 H334 H317 H335 H373			

Full text of H and EUH statements: see section 16.

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Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
932742-30-8	700-071-4	isophoronedialdimine	< 1 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg	
192526-20-8	924-669-1	Reaction product of hexamethylene diisocyanate, oligomer and mercaptopropyltrimethoxysilane	< 1 %
		dermal: LD50 = > 2.000 mg/kg; oral: LD50 = > 2.000 mg/kg	
1065336-91-5	915-687-0	Pentamethylpiperidylsebacate	< 0,25 %
		oral: LD50 = 3230 mg/kg Aquatic Acute 1; H400: M=1 Aquatic Chronic 1; H410: M=1	
101-68-8	202-966-0	4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate	< 0,1 %
		inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); oral: LD50 = 9200 mg/kg Skin Irrit. 2; H315: >= 5 - 100 Eye Irrit. 2; H319: >= 5 - 100 Resp. Sens. 1; H334: >= 0,1 - 100 STOT SE 3; H335: >= 5 - 100	

Further Information

The light color settings of this product contain titanium dioxide. Pay attention to proper use. See further information in sections 6.1 and 7.1.

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

Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.

After inhalation

Move to fresh air. If symptoms persist, call a physician.

After contact with skin

Remove mechanically (e.g. dab away using wadding or cellulose material) then thoroughly wash the affected skin with a mild cleanser and water. Take off contaminated clothing and shoes immediately.
If skin irritation persists, call a physician.

After contact with eyes

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.

After ingestion

Rinse mouth with water.
Do not induce vomiting without medical advice. Call a physician immediately.
Never give anything by mouth to an unconscious person.

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

Allergic appearance
May cause sensitisation of susceptible persons.

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

Treat symptomatically.

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

In case of fire, use water/water spray/water jet/carbon dioxide/sand/foam/alcohol resistant foam/chemical powder for extinction.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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Unsuitable extinguishing media

no data available

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products: None known.

5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

Additional information

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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

Ensure adequate ventilation. Protective suit.

Keep away from unprotected people. Keep upwind.

If the dried product is removed mechanically, then respirable titanium dioxide particles can be atomized. A fine dust mask FFP3 (EN 149) must therefore be worn to protect the respiratory tract.

For non-emergency personnel

Remove from all sources of ignition. Provide adequate ventilation. Wear personal protection equipment.

For emergency responders

Wear personal protection equipment.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up**For containment**

Cover the sewers.

For cleaning up

Use mechanical handling equipment.

Other information

Soak up with inert absorbent material and dispose of as hazardous waste.

6.4. Reference to other sections

See also section 7, 8, 13

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

Handle in accordance with good industrial hygiene and safety practice.

Do not breath vapour. Ensure adequate ventilation, especially in confined areas.

When using do not eat, drink or smoke.

Avoid contact with skin and eyes. Wash hands before breaks and immediately after handling the product.

Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Advice on protection against fire and explosion

None under normal processing.

Normal measures for preventive fire protection.

Advice on general occupational hygiene

Ensure adequate ventilation, especially in confined areas. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke. Avoid contact with skin, eyes and clothing.

Change contaminated clothing. Wash contaminated clothing prior to re-use.

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7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place.

Hints on joint storageKeep away from food, drink and animal feedingstuffs.
No special restrictions on storage with other products.**7.3. Specific end use(s)**

Sealant

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

CAS No	Name of agent	Exposure route	Effect	Value
192526-20-8	Reaction product of hexamethylene diisocyanate, oligomer and mercaptopropyltrimethoxysilane			
Worker DNEL, long-term		inhalation	systemic	1,7 mg/m ³
Worker DNEL, long-term		dermal	systemic	4,7 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0,3 mg/m ³
Consumer DNEL, long-term		dermal	systemic	1,7 mg/kg bw/day

PNEC values

CAS No	Name of agent	Value
192526-20-8	Reaction product of hexamethylene diisocyanate, oligomer and mercaptopropyltrimethoxysilane	
Freshwater		0,1 mg/l
Marine water		0,01 mg/l
Freshwater sediment		23,28 mg/kg
Marine sediment		2,33 mg/kg
Soil		4,58 mg/kg

Additional advice on limit values

To date, no national critical limit values exist.

8.2. Exposure controls**Individual protection measures, such as personal protective equipment****Eye/face protection**

Safety glasses

Hand protectionChemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.
Glove thickness (>0,1 mm); Short term.
Several times during the working day for prolonged periods of time: Gloves Viton (R) (0,4 mm),
Break through time >30 minutesGloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.
Request information on glove permeation properties from the glove supplier.**Skin protection**

Long sleeved clothing

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Respiratory protection

No personal respiratory protective equipment normally required.

Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

In case of insufficient ventilation wear suitable respiratory equipment. respirator with A filter

Thermal hazards

Do not heat the product.

Under fire conditions: Flame-resistant clothing

Low temperature resistant gloves: not required

Environmental exposure controls

Do not flush into surface water or sanitary sewer system.

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

Physical state:	Paste	
Colour:	grey	
Odour:	odourless	
Odour threshold:	no data available	
Melting point/freezing point:		no data available
Boiling point or initial boiling point and boiling range:		no data available
Flammability:		not applicable
Lower explosion limits:		no data available
Upper explosion limits:		no data available
Flash point:		> 101 °C
Auto-ignition temperature:		not applicable
pH-Value:		not applicable. Mixture not soluble in water.
Viscosity / kinematic: (at 40 °C)		> 20,5 mm ² /s
Water solubility:		insoluble
Dissolution rate:		not determined
Partition coefficient n-octanol/water:		no data available
Vapour pressure:		no data available
Density (at 20 °C):		approx. 1,28 g/cm ³
Relative vapour density:		no data available
Particle characteristics:		not applicable

9.2. Other information**Information with regard to physical hazard classes**

Explosive properties

not Explosive.

Self-ignition temperature

Solid:

no data available

Other safety characteristics

Evaporation rate:

no data available

Viscosity / dynamic:

approx. 160.000 mPa·s

(at 20 °C)

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

No dangerous reaction known under conditions of normal use.

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10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

Avoid moisture.

10.5. Incompatible materials

no data available

10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity**

Not classified according to the information available.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
932742-30-8	isophoronedialdimine				
	oral	LD50 >2000 mg/kg	rat		
	dermal	LD50 >2000 mg/kg	rabbit		
192526-20-8	Reaction product of hexamethylene diisocyanate, oligomer and mercaptopropyltrimethoxysilane				
	oral	LD50 > 2.000 mg/kg	Ratte		OECD Prüfrichtlinie 423
	dermal	LD50 > 2.000 mg/kg	Ratte		OECD Prüfrichtlinie 403
1065336-91-5	Pentamethylpiperidylsebacate				
	oral	LD50 3230 mg/kg	rat		
101-68-8	4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate				
	oral	LD50 9200 mg/kg	Rat	GESTIS	
	inhalation vapour	ATE 11 mg/l			
	inhalation dust/mist	ATE 1,5 mg/l			

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Sensitising effects

May cause allergic skin reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

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STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Information on likely routes of exposure

Skin contact

Specific effects in experiment on an animal

This information is not available.

Additional information on tests

no data available

11.2. Information on other hazards**Endocrine disrupting properties**

The substance / mixture does not contain any components in amounts of 0,1% or more which according to REACH Article 57 (f) or the delegated regulation (EU) 2017/2100 of the commission or the delegated regulation (EU) 2018/605 have endocrine disrupting properties.

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

No data is available on the product itself.

Do not flush into surface water or sanitary sewer system.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
77703-56-1	Urea,N,N"-(methylenedi-4,1-phenylene)bisN'-butyl					
	Acute fish toxicity	LC50 mg/l	>250 96 h	Danio rerio (zebra fish)		
	Acute algae toxicity	ErC50 mg/l	>100 72 h	Pseudokirchneriella subcapitata (green algae)		
	Acute crustacea toxicity	EC50 mg/l	>100 48 h	Daphnia magna (Water flea)		
932742-30-8	isophoronedialdimine					
	Acute fish toxicity	LC50 mg/l	87,2 96 h	Fish		
	Acute algae toxicity	ErC50 mg/l	180,4 72 h	Scenedesmus quadricauda (Green algae)		
	Acute crustacea toxicity	EC50 mg/l	>100 48 h	Daphnia		
192526-20-8	Reaction product of hexamethylene diisocyanate, oligomer and mercaptopropyltrimethoxysilane					
	Acute fish toxicity	LC50 mg/l	>100 96 h	Brachydanio rerio (Zebrafisch)		OECD Prüfrichtlinie 203
	Acute algae toxicity	ErC50 mg/l	>100 72 h	Pseudokirchneriella subcapitata		OECD-Prüfrichtlinie 201
	Acute crustacea toxicity	EC50 mg/l	>100 48 h	Daphnia magna (Großer Wasserfloh)		OECD-Prüfrichtlinie 202
1065336-91-5	Pentamethylpiperidylsebacate					
	Acute fish toxicity	LC50 mg/l	0,97 96 h	Fish		

12.2. Persistence and degradability

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This information is not available.

12.3. Bioaccumulative potential

This information is not available.

12.4. Mobility in soil

no data available

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0,1 % or higher.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

The substance / mixture does not contain any components in amounts of 0,1% or more which according to REACH Article 57 (f) or the delegated regulation (EU) 2017/2100 of the commission or the delegated regulation (EU) 2018/605 have endocrine disrupting properties.

12.7. Other adverse effects

no data available

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

According to the valid waste list regulation, waste is to be assigned to the type of waste based on origin. It is therefore not possible to clearly define a waste key number. Dispose of waste according to applicable local, state, and federal regulations.

Contaminated packaging

Non-contaminated and emptied packaging can be recycled. Packaging that contains residues of dangerous substances or is contaminated by dangerous substances, as well as packaging that has not been completely emptied, must be disposed of properly and without damage, like the product. Dispose of waste according to applicable local, state, and federal regulations.

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

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

Marine pollutant: no

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

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14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

14.7. Maritime transport in bulk according to IMO instruments

No dangerous good in sense of this transport regulation.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 56

2004/42/EC (VOC): not applicable

National regulatory information

Water hazard class (D): 2 - obviously hazardous to water

Additional information

Giscode: PU10

15.2. Chemical safety assessment

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

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 15.

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Abbreviations and acronyms

CLP: Classification, labelling and Packaging
REACH: Registration, Evaluation and Authorization of Chemicals
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
UN: United Nations
CAS: Chemical Abstracts Service
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration
ATE: Acute toxicity estimate
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
LL50: Lethal loading, 50%
EL50: Effect loading, 50%
EC50: Effective Concentration 50%
ErC50: Effective Concentration 50%, growth rate
NOEC: No Observed Effect Concentration
BCF: Bio-concentration factor
PBT: persistent, bioaccumulative, toxic
vPvB: very persistent, very bioaccumulative
ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Regulations concerning the international carriage of dangerous goods by rail
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)
IMDG: International Maritime Code for Dangerous Goods
EmS: Emergency Schedules
MFAG: Medical First Aid Guide
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
MARPOL: International Convention for the Prevention of Marine Pollution from Ships
IBC: Intermediate Bulk Container
VOC: Volatile Organic Compounds
SVHC: Substance of Very High Concern
Acute Tox: Acute toxicity
Skin Irrit: Skin irritation
Eye Dam: Eye damage
Eye Irrit: Eye irritation
Resp. Sens: Respiratory sensitisation
Skin Sens: Skin sensitisation
Carc: Carcinogenicity
STOT SE: Specific target organ toxicity - single exposure
STOT RE: Specific target organ toxicity - repeated exposure
Aquatic Acute: Acute aquatic hazard
Aquatic Chronic: Chronic aquatic hazard

Relevant H and EUH statements (number and full text)

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.

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H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
EUH204	Contains isocyanates. May produce an allergic reaction.

Further Information

These data describe only the safety requirements for the product(s) and are based on our present knowledge. However, they do not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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