

according to UK REACH Regulation

DINITROL 840 A

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

1.1. Product identifier

DINITROL 840 A

UFI: FGV6-77M6-Y00Q-JE6G

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

Use of the substance/mixture

Adhesives, sealants, Curing agent

1.3. Details of the supplier of the safety data sheet

Company name: DINOL GmbH

Street: Pyrmonter Strasse 76
Place: D-32676 Luegde

Telephone: + 49 (0) 5281 982980 Telefax: + 49 (0) 5281 9829860

E-mail: msds@dinol.com

Contact person: Labor

Responsible Department: msds@dinol.com

1.4. Emergency telephone Giftnotruf Berlin: +49 30 30686 700 (Beratung in Deutsch und Englisch)

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 Carc. 2; H351

STOT SE 3; H335 STOT RE 2; H373

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

Diphenylmethanediisocyanate, isomers and homologues

MDI-based polyisocyanate prepolymer

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

diphenylmethane-2,4'-diisocyanate

2,2'-methylenediphenyl diisocyanate; diphenylmethane-2,2'-diisocyanate

Signal word: Danger

Pictograms:





Hazard statements

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.



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H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation. H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P308+P311 IF exposed or concerned: Call a POISON CENTER/doctor.

P405 Store locked up.

Special labelling of certain mixtures

EUH204 Contains isocyanates. May produce an allergic reaction.

Restricted to professional users.

As from 24 August 2023 adequate training is required before industrial or professional

use.

Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger

Pictograms:





Hazard statements

H317-H334-H351

Precautionary statements

P280-P304+P340-P405

2.3. Other hazards

health hazards: 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.

SECTION 3: Composition/information on ingredients

3.2. Mixtures



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Relevant ingredients

CAS No	Chemical name			Quantity			
	EC No	Index No	REACH No				
	Classification (GB CLP Regula	ition)	•				
9016-87-9	Diphenylmethanediisocyanate	, isomers and homologues		40 - < 45 %			
	618-498-9	615-005-01-6					
	1 '	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					
	MDI-based polyisocyanate pre	polymer		25 - < 30 %			
	Carc. 2, Acute Tox. 4, Skin Irri RE 2; H351 H332 H315 H319		Skin Sens. 1, STOT SE 3, STOT				
101-68-8	4,4'-methylenediphenyl diisocy	10 - < 15 %					
	202-966-0						
	Carc. 2, Acute Tox. 4, Skin Irri RE 2; H351 H332 H315 H319		Skin Sens. 1, STOT SE 3, STOT				
5873-54-1	diphenylmethane-2,4'-diisocya	nate		5 - < 10 %			
	227-534-9	615-005-00-9	01-2119480143-45				
	Carc. 2, Acute Tox. 4, Skin Irri RE 2; H351 H332 H315 H319		Skin Sens. 1, STOT SE 3, STOT				
2530-83-8	3-Glycidoxypropyltrimethoxysi	ane		1 - < 5 %			
	219-784-2		01-2119513212-58				
	Eye Dam. 1; H318						
2536-05-2	2,2'-methylenediphenyl diisocy	< 1 %					
	219-799-4	615-005-00-9	01-2119927323-43				
_	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.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity				
	Specific Conc	. Limits, M-factors and ATE					
9016-87-9	618-498-9	Diphenylmethanediisocyanate, isomers and homologues					
	>9400 mg/kg;	TE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = oral: LD50 = >10000 mg/kg					
	MDI-based polyisocyanate prepolymer						
	inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists)						
101-68-8	01-68-8 202-966-0 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate						
	9200 mg/kg	FE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); oral: LD50 = Skin Irrit. 2; H315: >= 5 - 100					
5873-54-1	227-534-9	diphenylmethane-2,4'-diisocyanate	5 - < 10 %				
	>9400 mg/kg;	TE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = oral: LD50 = >2000 mg/kg					
2530-83-8	219-784-2	3-Glycidoxypropyltrimethoxysilane	1 - < 5 %				
	dermal: LD50) = 4250 mg/kg; oral: LD50 = 8025 mg/kg					
2536-05-2	219-799-4	2,2'-methylenediphenyl diisocyanate; diphenylmethane-2,2'-diisocyanate	< 1 %				
	>9400 mg/kg;	FE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = oral: LD50 = >2000 mg/kg					



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Further Information

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: none

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated, saturated clothing immediately.

After inhalation

Remove casualty to fresh air and keep warm and at rest. In case of troubles or persistent symptoms, consult an ophthalmologist.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Call a physician immediately.

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

No information available.

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

Carbon dioxide (CO2)

Extinguishing powder

alcohol resistant foam

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Formation of: Pyrolysis products, toxic; Nitrogen oxides (NOx).; Hydrocyanic acid (hydrocyanic acid).

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Provide adequate ventilation.

Wear personal protection equipment.

Special danger of slipping by leaking/spilling product.

For emergency responders

For further specification, refer to section 8 of the SDS.



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6.2. Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment

Prevent spread over a wide area (e.g. by containment or oil barriers).

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Treat the recovered material as prescribed in the section on waste disposal.

For cleaning up

Provide adequate ventilation.

Clear contaminated areas thoroughly.

Do not rinse down with water.

Other information

No information available.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

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

Handle and open container with care.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Advice on general occupational hygiene

Avoid contact with skin and eyes.

Keep away from food, drink and animal feedingstuffs.

When using do not eat, drink or smoke.

Protect skin by using skin protective cream.

Take off contaminated clothing and wash it before reuse.

Keep away from food, drink and animal feedingstuffs.

Further information on handling

Do not breathe vapour.

Avoid contact with skin and eyes.

Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

Hints on joint storage

Do not store together with: Water, Oxidising agent.

Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity. storage temperature: $<0^{\circ}C - < 50^{\circ}C$.

7.3. Specific end use(s)

Adhesives, sealants

SECTION 8: Exposure controls/personal protection



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8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
	Isocyanates, all (as -NCO) Except methyl isocyanate	-	0.02		TWA (8 h)	WEL
		-	0.07		STEL (15 min)	WEL

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
-	, , ,	isocyanate-derived diamine (creatinine)	1 μmol/mol		At the end of the period of exposure



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DNEL/DMEL values

CAS No Substance			
DNEL type	Exposure route	Effect	Value
5873-54-1 diphenylmethane-2,4'-diisocyanate			
Worker DNEL, long-term	inhalation	systemic	0,05 mg/m³
Worker DNEL, acute	inhalation	systemic	0,10 mg/m³
Worker DNEL, long-term	inhalation	local	0,05 mg/m³
Worker DNEL, acute	inhalation	local	0,10 mg/m³
Worker DNEL, acute	dermal	systemic	50,0 mg/kg bw/day
Worker DNEL, acute	dermal	local	28,7 mg/person/day
Consumer DNEL, long-term	inhalation	systemic	0,025 mg/m³
Consumer DNEL, acute	inhalation	systemic	0,05 mg/m ³
Consumer DNEL, long-term	inhalation	local	0,025 mg/m³
Consumer DNEL, acute	inhalation	local	0,05 mg/m³
Consumer DNEL, acute	dermal	systemic	25,0 mg/kg bw/day
Consumer DNEL, acute	dermal	local	17,2 mg/person/day
Consumer DNEL, acute	oral	systemic	20,0 mg/kg bw/day
2530-83-8 3-Glycidoxypropyltrimethoxysilane			
Worker DNEL, long-term	inhalation	systemic	147 mg/m³
Worker DNEL, long-term	dermal	systemic	21 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	43,5 mg/m³
Consumer DNEL, long-term	dermal	systemic	12,5 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	12,5 mg/kg bw/day
2536-05-2 2,2'-methylenediphenyl diisocyanate; diphen	ylmethane-2,2'-diisocyanate		
Worker DNEL, long-term	inhalation	systemic	0,05 mg/m³
Worker DNEL, acute	inhalation	systemic	0,10 mg/m³
Worker DNEL, long-term	inhalation	local	0,05 mg/m³
Worker DNEL, acute	inhalation	local	0,10 mg/m³
Worker DNEL, acute	dermal	systemic	50,0 mg/kg bw/day
Worker DNEL, acute	dermal	local	28,7 mg/person/day
Consumer DNEL, long-term	inhalation	systemic	0,025 mg/m³
Consumer DNEL, acute	inhalation	systemic	0,05 mg/m³
Consumer DNEL, long-term	inhalation	local	0,025 mg/m³
Consumer DNEL, acute	inhalation	local	0,05 mg/m³
Consumer DNEL, acute	dermal	systemic	25,0 mg/kg bw/day
Consumer DNEL, acute	dermal	local	17,2 mg/person/day
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Consumer DNEL, acute	Ulai .	Systemic	20,0 mg/kg
			bw/day

PNEC values

CAS No Substance	
Environmental compartment	Value
5873-54-1 diphenylmethane-2,4'-diisocyanate	
Freshwater	1,0 mg/l
Marine water	0,1 mg/l
Micro-organisms in sewage treatment plants (STP)	1,0 mg/l
Soil	1,0 mg/kg
2530-83-8 3-Glycidoxypropyltrimethoxysilane	
Freshwater	1,0 mg/l
Marine water	0,1 mg/l
Freshwater sediment	3,6 mg/kg
Marine sediment	0,36 mg/kg
Micro-organisms in sewage treatment plants (STP)	10 mg/l
Soil	0,14 mg/kg
2536-05-2 2,2'-methylenediphenyl diisocyanate; diphenyln	ethane-2,2'-diisocyanate
Freshwater	1,0 mg/l
Marine water	0,1 mg/l
Micro-organisms in sewage treatment plants (STP)	1,0 mg/l
Soil	1,0 mg/kg

8.2. Exposure controls







Appropriate engineering controls

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn

Individual protection measures, such as personal protective equipment

Eye/face protection

Eye glasses with side protection (EN 166)

Hand protection

Tested protective gloves must be worn (EN ISO 374):

FKM (fluoro rubber) penetration time (maximum wearing period): 480 min.

NBR (Nitrile rubber) penetration time (maximum wearing period): 480 min.

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.

Protective gloves have to be replaced at the first sign of deterioration.

Protect skin by using skin protective cream.

Skin protection

Wear suitable protective clothing.

Respiratory protection

Work in well-ventilated zones or use proper respiratory protection.



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gas filtering equipment (EN 141)., Filter material/medium: A/P2

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:

Colour:

Odour:

Odour:

Odour threshold:

Liquid
brown
characteristic
not determined

Melting point/freezing point:

Boiling point or initial boiling point and

not determined

> 300 °C

boiling range:

Flammability: not applicable Lower explosion limits: not determined Upper explosion limits: not determined > 200 °C Flash point: Auto-ignition temperature: >400 °C Decomposition temperature: not determined pH-Value: not applicable Viscosity / kinematic: not determined

Water solubility:

The study does not need to be conducted because the substance is known to be

insoluble in water.

Solubility in other solvents

not determined

Partition coefficient n-octanol/water:

Vapour pressure:

Density (at 20 °C):

Relative vapour density:

Particle characteristics:

not determined

1,17 g/cm³

not determined

not determined

not determined

9.2. Other information

Information with regard to physical hazard classes

Explosive properties not determined Self-ignition temperature

Solid: not applicable
Gas: not applicable

Oxidizing properties Not oxidising.

Other safety characteristics

Evaporation rate: not determined
Softening point: not determined
Viscosity / dynamic: 500 -1000 mPa·s

(at 23 °C)

Further Information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability



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The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Reacts with: Alcohol; Amines; Alkali (lye); Acids

10.4. Conditions to avoid

Keep away from heat. Protect from moisture.

10.5. Incompatible materials

Keep away from: Alcohol; Amines; Alkali (lye); Acids

10.6. Hazardous decomposition products

No information available.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

Harmful if inhaled.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) 11,29 mg/l; ATE (inhalation dust/mist) 1,540 mg/l



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CAS No	Chemical name						
	Exposure route	Dose		Species	Source	Method	
9016-87-9	Diphenylmethanediisoo	yanate, ison	ners and hom	ologues	·		
	oral	LD50 mg/kg	>10000	Rat			
	dermal	LD50 mg/kg	>9400	Rabbit			
	inhalation vapour	ATE	11 mg/l				
	inhalation dust/mist	ATE	1,5 mg/l				
	MDI-based polyisocyar	ate prepolyr	mer				
	inhalation vapour	ATE	11 mg/l				
	inhalation dust/mist	ATE	1,5 mg/l				
101-68-8	4,4'-methylenediphenyl	diisocyanat	e; diphenylme	thane-4,4'-diisocya	nate		
	oral	LD50 mg/kg	9200	Rat	GESTIS		
	inhalation vapour	ATE	11 mg/l				
	inhalation dust/mist	ATE	1,5 mg/l				
5873-54-1	diphenylmethane-2,4'-diisocyanate						
	oral	LD50 mg/kg	>2000	Rat			
	dermal	LD50 mg/kg	>9400	Rabbit			
	inhalation vapour	ATE	11 mg/l				
	inhalation dust/mist	ATE	1,5 mg/l				
2530-83-8	3-Glycidoxypropyltrime	thoxysilane					
	oral	LD50 mg/kg	8025	Rat			
	dermal	LD50 mg/kg	4250	Rabbit			
2536-05-2	2,2'-methylenediphenyl	diisocyanat	e; diphenylme	thane-2,2'-diisocya	nate		
	oral	LD50 mg/kg	>2000	Rat			
	dermal	LD50 mg/kg	>9400	Rabbit			
	inhalation vapour	ATE	11 mg/l				
	inhalation dust/mist	ATE	1,5 mg/l				

Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye irritation.

Sensitising effects

May cause allergy or asthma symptoms or breathing difficulties if inhaled. (Diphenylmethanediisocyanate, isomers and homologues; MDI-based polyisocyanate prepolymer; 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate; diphenylmethane-2,4'-diisocyanate; 2,2'-methylenediphenyl diisocyanate; diphenylmethane-2,2'-diisocyanate)

May cause an allergic skin reaction. (Diphenylmethanediisocyanate, isomers and homologues; MDI-based polyisocyanate prepolymer; 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate; diphenylmethane-2,4'-diisocyanate; 2,2'-methylenediphenyl diisocyanate; diphenylmethane-2,2'-diisocyanate) Contains isocyanates. May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction



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Suspected of causing cancer. (Diphenylmethanediisocyanate, isomers and homologues; MDI-based polyisocyanate prepolymer; 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate; diphenylmethane-2,4'-diisocyanate; 2,2'-methylenediphenyl diisocyanate; diphenylmethane-2,2'-diisocyanate) Germ cell mutagenicity: Based on available data, the classification criteria are not met. Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure

May cause respiratory irritation. (Diphenylmethanediisocyanate, isomers and homologues; MDI-based polyisocyanate prepolymer; 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate; diphenylmethane-2,4'-diisocyanate)

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure. (Diphenylmethanediisocyanate, isomers and homologues; MDI-based polyisocyanate prepolymer; 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate)

Aspiration hazard

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

Information on likely routes of exposure

No information available.

Specific effects in experiment on an animal

No information available.

Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP]. Special hazards arising from the substance or mixture!

Practical experience

No information available.

11.2. Information on other hazards

Endocrine disrupting properties

Endocrine disrupting potential No information available.

Further information

There are no data available on the preparation/mixture itself.

SECTION 12: Ecological information

12.1. Toxicity

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



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CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
9016-87-9	Diphenylmethanediisocyanate, isomers and homologues						
	Acute fish toxicity	LC50 mg/l	>1000	96 h	Cyprinus carpio (Common Carp)		
	Acute bacteria toxicity	EC50 mg/l ()	>100	3 h			
5873-54-1	diphenylmethane-2,4'-diis	ocyanate					
	Acute fish toxicity	LC50	55 mg/l		Cyprinus carpio (Common Carp)		
2530-83-8	3-Glycidoxypropyltrimethoxysilane						
	Acute fish toxicity	LC50	55 mg/l	l .	Cyprinus carpio (Common Carp)		
	Acute algae toxicity	ErC50	350 mg/l	96 h	Pseudokirchneriella subcapitata		
	Acute crustacea toxicity	EC50	324 mg/l		Daphnia magna (Big water flea)		
2536-05-2	2,2'-methylenediphenyl di	isocyanate;	diphenylmet	hane-2,2	'-diisocyanate		
	Acute fish toxicity	LC50 mg/l	>1000	96 h	Danio rerio (zebrafish)		
	Acute algae toxicity	ErC50 mg/l	>1640	72 h	Scenedesmus subspicatus		

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
2530-83-8	3-Glycidoxypropyltrimethoxysilane	0,5

BCF

CAS No	Chemical name	BCF	Species	Source
9016-87-9	Diphenylmethanediisocyanate, isomers and homologues	<14		42d, OECD 305C

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

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

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.

12.7. Other adverse effects

No information available.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods



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Disposal recommendations

Dispose of waste according to applicable legislation. Do not mix with other wastes.

List of proposed waste codes/waste designations in accordance with EWC:

List of Wastes Code - residues/unused products

080501 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF

COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes not otherwise specified in 08; waste isocyanates; hazardous waste

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 containing residues of or contaminated by

hazardous substances; hazardous waste

Contaminated packaging

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

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.

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

14.6. Special precautions for user

No information available.

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 56, Entry 75

Additional information

Observe in addition any national regulations!

Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work

National regulatory information



according to UK REACH Regulation

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Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile

> work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or

nursing mothers.

Water hazard class (D): 1 - slightly hazardous to water

Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

Additional information

This mixture contains the following substances of very high concern (SVHC) which are included in the

Candidate List according to Article 59 of REACH: none

15.2. Chemical safety assessment

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

SECTION 16: Other information

Abbreviations and acronyms

Acute Tox: Acute toxicity Skin Irrit: Skin irritation Eve Dam: Eve damage Eve Irrit: Eve 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

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

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

Classification	Classification procedure			
Acute Tox. 4; H332	Calculation method			
Skin Irrit. 2; H315	Calculation method			
Eye Irrit. 2; H319	Calculation method			
Resp. Sens. 1; H334	Calculation method			
Skin Sens. 1; H317	Calculation method			
Carc. 2; H351	Calculation method			
STOT SE 3; H335	Calculation method			
STOT RE 2; H373	Calculation method			

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.



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H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or repeated exposure.

EUH204 Contains isocyanates. May produce an allergic reaction.

Further Information

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 relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)



according to UK REACH Regulation

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

1.1. Product identifier

DINITROL 840 B

UFI: VMGR-17Y2-Q000-GPJK

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

Use of the substance/mixture

Adhesives, sealants

resin

1.3. Details of the supplier of the safety data sheet

Company name: DINOL GmbH
Street: Pyrmonter Strasse 76
Place: D-32676 Luegde

Telephone: + 49 (0) 5281 982980 Telefax: + 49 (0) 5281 9829860

E-mail: msds@dinol.com

Contact person: Labor

Responsible Department: msds@dinol.com

1.4. Emergency telephone Giftnotruf Berlin: +49 30 30686 700 (Beratung in Deutsch und Englisch)

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine)

Signal word: Danger

Pictograms:



Hazard statements

H315 Causes skin irritation.
H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P264 Wash water thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.



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Special labelling of certain mixtures

Restricted to professional users.

Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger

Pictograms:



Hazard statements

H318-H412

Precautionary statements

P280-P305+P351+P338-P310

2.3. Other hazards

health hazards: 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.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Relevant ingredients

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification (GB CLP Regulation	n)	•		
25214-63-5	Ethylendiamine, propoxylated			75 - < 80 %	
	500-035-6		01-2119471485-32		
	Eye Irrit. 2; H319				
2768-02-7	trimethoxyvinylsilane; trimethoxy(vinyl)silane				
	220-449-8	014-049-00-0			
	Skin Sens. 1B; H317	•	•		
1761-71-3	4,4'-Methylenebis(cyclohexylamir	ne)		1 - < 5 %	
	217-168-8		01-2119541673-38		
	Acute Tox. 4, Skin Corr. 1B, Eye H373	Dam. 1, Skin Sens. 1B, STOT RE 2;	H302 H314 H318 H317		

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name			
	Specific Conc.	Limits, M-factors and ATE			
25214-63-5	500-035-6	-035-6 Ethylendiamine, propoxylated			
	dermal: LD50 =	= > 2000 mg/kg; oral: LD50 = > 2000 mg/kg			
1761-71-3	217-168-8	4,4'-Methylenebis(cyclohexylamine)	1 - < 5 %		
	dermal: LD50 =	= 2110 mg/kg; oral: LD50 = 625 mg/kg			

Further Information

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: none

SECTION 4: First aid measures



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4.1. Description of first aid measures

General information

Remove contaminated, saturated clothing immediately.

After inhalation

Remove casualty to fresh air and keep warm and at rest. In case of troubles or persistent symptoms, consult an ophthalmologist.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

After contact with eves

Rinse immediately carefully and thoroughly with eye-bath or water. 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 immediately and drink plenty of water. Call a physician immediately.

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

No information available.

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

Carbon dioxide (CO2)

Extinguishing powder

alcohol resistant foam

Water spray jet

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Formation of: Pyrolysis products, toxic

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Provide adequate ventilation.

Wear personal protection equipment.

Special danger of slipping by leaking/spilling product.

For emergency responders

For further specification, refer to section 8 of the SDS.

6.2. Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up



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For containment

Prevent spread over a wide area (e.g. by containment or oil barriers).

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Treat the recovered material as prescribed in the section on waste disposal.

For cleaning up

Provide adequate ventilation.

Clear contaminated areas thoroughly.

Do not rinse down with water.

Other information

No information available.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

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

Handle and open container with care.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Advice on general occupational hygiene

Avoid contact with skin and eyes.

Keep away from food, drink and animal feedingstuffs.

When using do not eat, drink or smoke.

Protect skin by using skin protective cream.

Take off contaminated clothing and wash it before reuse.

Keep away from food, drink and animal feedingstuffs.

Further information on handling

Do not breathe vapour.

Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

Hints on joint storage

Do not store together with: Water, Oxidising agent.

Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity. storage temperature: $<0^{\circ}C - < 50^{\circ}C$.

7.3. Specific end use(s)

Adhesives, sealants

SECTION 8: Exposure controls/personal protection

8.1. Control parameters



according to UK REACH Regulation

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DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
25214-63-5	Ethylendiamine, propoxylated			
Worker DNEL,	long-term	dermal	systemic	13,9 mg/kg bw/day
Consumer DNI	EL, long-term	inhalation	systemic	29 mg/m³
Consumer DNI	EL, long-term	dermal	systemic	8,3 mg/kg bw/day
Worker DNEL,	long-term	inhalation	systemic	98 mg/m³
Consumer DNEL, long-term		oral	systemic	8,3 mg/kg bw/day
1761-71-3	4,4'-Methylenebis(cyclohexylamine)			
Worker DNEL,	long-term	dermal	systemic	0,1 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	1 mg/m³
Consumer DNEL, long-term		inhalation	systemic	0,21 mg/m³
Consumer DNEL, long-term		dermal	systemic	0,06 mg/kg bw/day
Consumer DNI	EL, long-term	oral	systemic	0,06 mg/kg bw/day

PNEC values

CAS No	Substance			
Environmental	Value			
25214-63-5	Ethylendiamine, propoxylated			
Freshwater		0,085 mg/l		
Marine water		0,0085 mg/l		
Freshwater sed	liment	0,074 mg/kg		
Marine sedime	nt	0,0074 mg/kg		
Micro-organisms in sewage treatment plants (STP)		70 mg/kg		
Soil 0		0,0162 mg/kg		
1761-71-3	4,4'-Methylenebis(cyclohexylamine)			
Freshwater		0,08 mg/l		
Marine water		0,008 mg/l		
Freshwater sediment		0,39 mg/kg		
Marine sediment		0,039 mg/kg		
Micro-organisms in sewage treatment plants (STP)		80 mg/l		
Soil 0,072 m		0,072 mg/kg		

8.2. Exposure controls





Appropriate engineering controls

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.



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Individual protection measures, such as personal protective equipment

Eye/face protection

Eye glasses with side protection (EN 166)

Hand protection

Tested protective gloves must be worn (EN ISO 374):

FKM (fluoro rubber) penetration time (maximum wearing period): 480 min.

NBR (Nitrile rubber) penetration time (maximum wearing period): 480 min. 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.

Protective gloves have to be replaced at the first sign of deterioration.

Protect skin by using skin protective cream.

Skin protection

Wear suitable protective clothing.

Respiratory protection

Work in well-ventilated zones or use proper respiratory protection.

short-term :gas filtering equipment (EN 141)., Filter material/medium: A/P2

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid Colour: various Odour: characteristic Odour threshold: not determined

Melting point/freezing point: not determined Boiling point or initial boiling point and not determined

boiling range:

Flammability: not applicable Lower explosion limits: not determined Upper explosion limits: not determined Flash point: > 150 °C > 300 °C Auto-ignition temperature: Decomposition temperature: not determined pH-Value: not applicable Viscosity / kinematic: not determined The study does not need to be conducted Water solubility: because the substance is known to be

insoluble in water.

Solubility in other solvents

not determined

Partition coefficient n-octanol/water: not determined Vapour pressure: not determined

(at 20 °C)

Density (at 23 °C): 1,08 g/cm3 Relative vapour density: not determined Particle characteristics: not applicable

9.2. Other information

Information with regard to physical hazard classes

Explosive properties not determined

No data available Sustaining combustion:

Self-ignition temperature



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Solid: not applicable
Gas: not applicable

Oxidizing properties Not oxidising.

Other safety characteristics

Evaporation rate:

Softening point:

Viscosity / dynamic:

(at 23 °C)

not determined

not determined

1000 mPa·s

Further InformationNo information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

This material is considered to be non-reactive under normal use conditions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Reacts with:: Oxidising agent

10.4. Conditions to avoid

Keep away from heat.

10.5. Incompatible materials

Keep away from: Oxidising agent,

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

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

ATEmix tested

Dose Species Source

LD50, oral > 2000 mg/kgLD50, dermal > 2000 mg/kgLC50, inhalation (vapour) (4 h) > 20 mg/l

ATEmix calculated

ATE (inhalation dust/mist) > 5 mg/l



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CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
25214-63-5	Ethylendiamine, propoxyla	ated				
	oral	LD50 > mg/kg	2000	Rat		
	dermal	LD50 > mg/kg	2000	Rat		
1761-71-3	4,4'-Methylenebis(cyclohexylamine)					
	oral	LD50 62 mg/kg	25	Rat		
	dermal		110	Rabbit		

Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye damage.

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

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

STOT-single exposure

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

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

No information available.

Specific effects in experiment on an animal

No information available.

Additional information on tests

No information available.

Practical experience

No information available.

11.2. Information on other hazards

Endocrine disrupting properties

Endocrine disrupting potential No information available.

Further information

There are no data available on the preparation/mixture itself.

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects.



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CAS No	Chemical name							
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method	
25214-63-5	Ethylendiamine, propoxyla	ated						
	Acute fish toxicity	LC50 mg/l	4600	96 h	Leuciscus idus (golden orfe)			
	Acute algae toxicity	ErC50 mg/l	150,67	72 h	Desmodesmus subspicatus			
	Acute crustacea toxicity	EC50 mg/l	> 100		Daphnia magna (Big water flea)			
1761-71-3	4,4'-Methylenebis(cyclohexylamine)							
	Acute fish toxicity	LC50 mg/l	46-100	96 h	Leuciscus idus (golden orfe)			
	Acute algae toxicity	ErC50 mg/l	140-200	72 h	alga			
	Acute crustacea toxicity	EC50 mg/l	6,84		Daphnia magna (Big water flea)			

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

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

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.

12.7. Other adverse effects

No information available.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation. Do not mix with other wastes. List of proposed waste codes/waste designations in accordance with EWC:

List of Wastes Code - residues/unused products

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF

 ${\tt COATINGS~(PAINTS, VARNISHES~AND~VITREOUS~ENAMELS), ADHESIVES, SEALANTS~AND~PRINTING~INKS; wastes from MFSU~of~adhesives~and~sealants~(including~waterproofing~products);}$

waste adhesives and sealants containing organic solvents or other hazardous substances;

hazardous waste

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 containing residues of or contaminated by

hazardous substances; hazardous waste



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Contaminated packaging

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

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:

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

14.6. Special precautions for user

No information available.

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

Additional information

Observe in addition any national regulations!

Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or

nursing mothers.

Water hazard class (D): 3 - highly hazardous to water

Additional information

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: none

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

Abbreviations and acronyms

Acute Tox: Acute toxicity Skin Corr: Skin corrosion Skin Irrit: Skin irritation Eye Dam: Eye damage Eye Irrit: Eye irritation Skin Sens: Skin sensitisation

STOT RE: Specific target organ toxicity - repeated exposure

Aquatic Chronic: Chronic aquatic hazard

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

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

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Dam. 1; H318	Calculation method
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

Further Information

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 relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)