

according to Regulation (EC) No 1907/2006

ARC BX1(E) Part B

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

1.1. Product identifier

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

Use of the substance/mixture

ARC Polymer Composite. Repair damage caused by impact, abrasion, erosion or corrosion; rebuild worn areas; fill holes and cracks; provide abrasion resistant surfaces.

Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

Company name: Chesterton International GmbH

Street: Am Lenzenfleck 23

Place: DE-85737 Ismaning GERMANY

Telephone: +49 89 99 65 46 - 0 Telefax: +49 89 99 65 46 - 50

e-mail: eu-sds@chesterton.com
e-mail (Contact person): eu-sds@chesterton.com
Internet: www.chesterton.com
Responsible Department: eu-sds@chesterton.com

1.4. Emergency telephone +49(0) 551 - 1 92 40 (GIZ-Nord, 24h)

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Acute toxicity: Acute Tox. 4

Skin corrosion/irritation: Skin Corr. 1B

Serious eye damage/eye irritation: Eye Dam. 1 Respiratory or skin sensitisation: Skin Sens. 1

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements: Harmful if inhaled.

Causes severe skin burns and eye damage.

Causes serious eye damage.

May cause an allergic skin reaction.

Harmful to aquatic life with long lasting effects.

2.2. Label elements

Regulation (EC) No. 1272/2008



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Hazard components for labelling

benzyl alcohol

4,4'-methylenebis(cyclohexylamine)

Diethylenetriamine (2,2'-iminodi(ethylamine))

Signal word: Danger

Pictograms:





Hazard statements

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H332 Harmful if inhaled.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

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

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water

or shower

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

present and easy to do. Continue rinsing.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P310 Immediately call a POISON CENTER/doctor.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

2.3. Other hazards

The safety and health hazards are detailed separately for Part A and Part B. The final cured material is considered nonhazardous. Upon machining, refer to the precautions in the safety data sheets for Part A and Part B.

SECTION 3: Composition/information on ingredients

3.2. Mixtures



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Hazardous components

CAS No	Chemical name			Quantity	
	EC No	Index No	REACH No		
	Classification according to Regu	lation (EC) No. 1272/2008 [CL	P]		
100-51-6	benzyl alcohol			5 - < 10 %	
	202-859-9	603-057-00-5	01-2119492630-38		
	Acute Tox. 4, Acute Tox. 4, Eye	rrit. 2; H332 H302 H319			
68411-71-2	1,2-Ethanediamine, N-(2-aminoe homopolymer (Epoxypolyaminae	• • • •	pisphenol A diglycidyl ether	5 - < 10 %	
	270-141-2				
	Acute Tox. 4; H302				
1761-71-3	4,4'-methylenebis(cyclohexylam	1 - < 5 %			
	217-168-8		01-2119541673-38		
	Acute Tox. 4, Skin Corr. 1B, Skir H411	Sens. 1, STOT RE 2, Aquation	Chronic 2; H302 H314 H317 H373		
111-40-0	Diethylenetriamine (2,2'-iminodi)	1 - < 5 %			
	203-865-4	612-058-00-X	01-2119473793-27		
	Acute Tox. 2, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1, STOT SE 3; H330 H312 H302 H314 H317 H335				

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

Further Information

Diethylenetriamine (2,2'-iminodi(ethylamine)): This component is toxic by inhalation if sprayed or if aerosol/mist is created. The mixture is neither present in aerosol form nor may aerosols occur.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection!

Take off immediately all contaminated clothing and wash it before reuse.

IF exposed or if you feel unwell: Immediately call a POISON CENTER or doctor/physician.

After inhalation

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

Immediately call a doctor.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Seek medical advice immediately.

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.



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After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

Do NOT induce vomiting.

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

Causes severe skin burns and eye damage.

Irritation to respiratory tract

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

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

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Carbon monoxide Carbon dioxide (CO2). Nitrogen oxides (NOx)

5.3. Advice for firefighters

Special protective equipment for firefighters Protective clothing. In case of fire: Wear self-contained breathing apparatus.

Co-ordinate fire-fighting measures to the fire surroundings.

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

See protective measures under point 7 and 8.

Provide adequate ventilation.

Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Cover drains.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

See protective measures under point 7 and 8. Disposal: see section 13

SECTION 7: Handling and storage



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7.1. Precautions for safe handling

Advice on safe handling

See section 8.

Wear personal protection equipment (refer to section 8).

Avoid breathing dust/fume/gas/mist/vapours/spray.

Avoid contact with skin, eyes and clothes.

Take off contaminated clothing and wash it before reuse.

Contaminated work clothing should not be allowed out of the workplace.

When using do not eat, drink or smoke.

Never use pressure to empty container. Keep/Store only in original container.

Do not allow to enter into surface water or drains.

Advice on protection against fire and explosion

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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. Keep/Store only in original container.

Further information on storage conditions

Keep away from:

Frost

Heat

Humidity

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
111-40-0	2,2'-Iminodi(ethylamine)	1	4.3		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL
1344-28-1	Aluminium oxides, inhalable dust	-	10		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL
409-21-2	Silicon carbide (not whiskers), total inhalable	-	10		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL
13463-67-7	Titanium dioxide, total inhalable	-	10		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL



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DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
1344-28-1	Aluminium oxide			
Worker DNEL	., long-term	inhalation	local	15,63 mg/m³
Consumer DNEL, long-term		oral	systemic	3,29 mg/kg bw/day
409-21-2	Silicon carbide			
Worker DNEL	., acute	inhalation	systemic	94 mg/m³
Consumer DN	NEL, acute	inhalation	systemic	23 mg/m³
Consumer DN	NEL, acute	dermal	systemic	200 mg/kg bw/day
Consumer DN	NEL, acute	oral	systemic	13 mg/kg bw/day
,				
100-51-6	benzyl alcohol			
Worker DNEL	, long-term	inhalation	systemic	22 mg/m³
Worker DNEL	., acute	inhalation	systemic	110 mg/m³
Worker DNEL	., long-term	dermal	systemic	8 mg/kg bw/day
Norker DNEL	., acute	dermal	systemic	40 mg/kg bw/day
Consumer DN	NEL, long-term	inhalation	systemic	5,4 mg/m³
Consumer DN	NEL, acute	inhalation	systemic	27 mg/m³
Consumer DN	NEL, long-term	dermal	systemic	4 mg/kg bw/day
Consumer DN	NEL, acute	dermal	systemic	20 mg/kg bw/day
Consumer DN	NEL, long-term	oral	systemic	4 mg/kg bw/day
Consumer DN	NEL, acute	oral	systemic	20 mg/kg bw/day
1761-71-3	4,4'-methylenebis(cyclohexylamine)			
Worker DNEL	., long-term	inhalation	systemic	1 mg/m³
Norker DNEL	., long-term	dermal	systemic	0,1 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0,21 mg/m³
Consumer DNEL, long-term		dermal	systemic	0,06 mg/kg bw/day
Consumer DN	NEL, long-term	oral	systemic	0,06 mg/kg bw/day
,				
111-40-0	Diethylenetriamine (2,2'-iminodi(ethylamine	e))		
Worker DNEL	., long-term	inhalation	systemic	15,4 mg/m³
Worker DNEL	, acute	inhalation	systemic	92,1 mg/m³



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Worker DNEL, long-term	inhalation	local	0,87 mg/m³
Worker DNEL, acute	inhalation	local	2,6 mg/m³
Worker DNEL, long-term	dermal	systemic	11,4 mg/kg bw/day
Worker DNEL, long-term	dermal	local	1,1 mg/cm ²
Consumer DNEL, long-term	inhalation	systemic	4,6 mg/m³
Consumer DNEL, acute	inhalation	systemic	27,5 mg/m³
Consumer DNEL, long-term	dermal	systemic	4,88 mg/kg bw/day
Consumer DNEL, acute	dermal	systemic	4,88 mg/kg bw/day
,			
13463-67-7 Titanium dioxide			
Worker DNEL, long-term	inhalation	local	10 mg/m³
Consumer DNEL, long-term	oral	systemic	700 mg/kg bw/day



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PNEC values

CAS No	Substance		
Environmental	compartment	Value	
100-51-6	benzyl alcohol		
Freshwater		1 mg/l	
Marine water 0,1 mg/l			
Freshwater se	diment	5,27 mg/kg	
Marine sedime	nt	0,527 mg/kg	
Micro-organism	ns in sewage treatment plants (STP)	39 mg/l	
Soil		0,456 mg/kg	
1761-71-3	4,4'-methylenebis(cyclohexylamine)		
Freshwater		0,08 mg/l	
Marine water		0,008 mg/l	
Freshwater see	diment	14,6 mg/kg	
Marine sedime	nt	1,46 mg/kg	
Secondary poisoning 0,556 mg/l		0,556 mg/kg	
Micro-organism	Micro-organisms in sewage treatment plants (STP) 0,08 mg/l		
Soil 4,56 mg/kg			
111-40-0	Diethylenetriamine (2,2'-iminodi(ethylamine))		
Freshwater		0,56 mg/l	
Freshwater (intermittent releases) 0,32 mg		0,32 mg/l	
Marine water 0,056 m		0,056 mg/l	
Freshwater sediment 1072 i		1072 mg/kg	
Marine sedime	nt	107,2 mg/kg	
Micro-organism	ns in sewage treatment plants (STP)	6 mg/l	
Soil		7,97 mg/kg	
13463-67-7	Titanium dioxide		
Freshwater 0,184 n		0,184 mg/l	
Freshwater (intermittent releases) 0,193 mg/		0,193 mg/l	
Marine water 0,018 mg/l			
Freshwater see	diment	1000 mg/kg	
Marine sedime	Marine sediment 100 mg/kg		
Micro-organism	ns in sewage treatment plants (STP)	100 mg/l	
Soil		100 mg/kg	

8.2. Exposure controls



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Appropriate engineering controls

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

Protective and hygiene measures

Work in well-ventilated zones or use proper respiratory protection. Only wear fitting, comfortable and clean protective clothing. Avoid contact with skin, eyes and clothes. Wash hands and face before breaks and after work and take a shower if necessary.

Use protective skin cream before handling the product.

Eye/face protection

Suitable eye protection: Eye glasses with side protection

goggles

Hand protection

Tested protective gloves must be worn: DIN EN 374 NBR (Nitrile rubber), Butyl caoutchouc (butyl rubber)

Thickness of the glove material >= 0,4 mm

Breakthrough times and swelling properties of the material must be taken into consideration.

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.

Observe the wear time limits as specified by the manufacturer.

Skin protection

Protective clothing

Respiratory protection

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

Combination filtering device (EN 14387) A-P3

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Paste
Colour: light grey
Odour: characteristic

Test method

pH-Value: not determined

Changes in the physical state

Melting point:

Initial boiling point and boiling range:

Flash point:

not determined
not determined

rot determined

rot determined

Flammability

Solid: not determined
Gas: not determined



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Explosive properties

No information available.

Lower explosion limits:

Upper explosion limits:

Ignition temperature:

not applicable

not applicable

Auto-ignition temperature

Solid: not determined
Gas: not determined

Decomposition temperature: not determined

Oxidizing properties

No information available.

Vapour pressure:not determinedDensity:2,12 g/cm³Water solubility:Immiscible

Solubility in other solvents

No information available.

Partition coefficient: not determined Viscosity / dynamic: 1.000.000 - 2.000.000 mPa·s

Vapour density: >1 (air = 1)
Evaporation rate: <1 (Ether = 1)

9.2. Other information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable under storage at normal ambient temperatures.

10.2. Chemical stability

Does not decompose when used for intended uses. No known hazardous decomposition products.

10.3. Possibility of hazardous reactions

Exothermic reaction with: Acid, Oxidising agent

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

10.5. Incompatible materials

Acid, Oxidising agent

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.



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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Harmful if inhaled.

ATEmix calculated

ATE (inhalation vapour) 19,02 mg/l; ATE (inhalation aerosol) 1,952 mg/l

CAS No	Chemical name							
	Exposure route	Dose		Species	Source	Method		
100-51-6	benzyl alcohol							
	oral	LD50 mg/kg	1620	Rat				
	inhalation vapour	ATE	11 mg/l					
	inhalation (4 h) aerosol	LC50 mg/l	>4,178	Rat				
68411-71-2	1,2-Ethanediamine, N-(2- (Epoxypolyaminaddukt)	-aminoethyl)-	, reaction pr	oducts with bisphenol A di	glycidyl ether homopolyme	er		
	oral	ATE mg/kg	500					
1761-71-3	4,4'-methylenebis(cycloh	4,4'-methylenebis(cyclohexylamine)						
	oral	LD50 1000 mg/kg	> 670 - <	Rat	Journal of Applied T	other: no informatio		
	dermal	LD50 mg/kg	2110	Rabbit	Study report (1986)	EPA OPP 81-2		
111-40-0	Diethylenetriamine (2,2'-i	minodi(ethyla	ımine))					
	oral	LD50 mg/kg	ca. 1140	Rat	Study report (1957)	Conducted prior to guidelines		
	dermal	LD50 mg/kg	672	Rabbit				
	inhalation vapour	ATE	0,5 mg/l					
	inhalation aerosol	ATE	0,05 mg/l					

Irritation and corrosivity

Causes severe skin burns and eye damage.

Sensitising effects

May cause an allergic skin reaction. (4,4'-methylenebis(cyclohexylamine); Diethylenetriamine (2,2'-iminodi(ethylamine)))

Carcinogenic/mutagenic/toxic effects for reproduction

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



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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.

SECTION 12: Ecological information

12.1. Toxicity



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CAS No	Chemical name								
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method		
100-51-6	benzyl alcohol								
	Acute fish toxicity	LC50	460 mg/l	96 h					
	Acute algae toxicity	ErC50	770 mg/l	72 h					
	Acute crustacea toxicity	EC50	230 mg/l	48 h	Daphnia magna (Big water flea)				
	Algea toxicity	NOEC	51 mg/l	3 d					
	Crustacea toxicity	NOEC	310 mg/l	21 d					
1761-71-3	4,4'-methylenebis(cyclohe	exylamine)							
	Acute fish toxicity	LC50 mg/l	> 100	96 h	Leuciscus idus	Study report (1988)	other: German indust		
	Acute algae toxicity	ErC50 200 mg/l	140 -	72 h		Study report (1990)	other: German Indust		
	Acute crustacea toxicity	EC50 mg/l	9,24	48 h	Daphnia magna	Springer Verlag, Ber	other: Directive 79/		
	Crustacea toxicity	NOEC	4 mg/l	21 d	Daphnia magna	Study report (2003)	OECD Guideline 211		
	Acute bacteria toxicity	(ca. 100	mg/l)	0,5 h	activated sludge, industrial	Study report (1986)	OECD Guideline 209		
111-40-0	Diethylenetriamine (2,2'-ir	minodi(ethyl	amine))						
	Acute fish toxicity	LC50	430 mg/l	96 h	Poecilia reticulata	Study report (1989)	EU Method C.1		
	Acute algae toxicity	ErC50 mg/l	1164	72 h	Pseudokirchneriella subcapitata	Study report (1990)	OECD Guideline 201		
	Acute crustacea toxicity	EC50 mg/l	64,6	48 h	Daphnia magna	Study report (1989)	EU Method C.2		
	Fish toxicity	NOEC mg/l	> 10	28 d	Gasterosteus aculeatus	Study report (1992)	OECD Guideline 210		
	Crustacea toxicity	NOEC	5,6 mg/l	21 d	Daphnia magna	Study report (1992)	EU Method C.20		
	Acute bacteria toxicity	(32,7 mg	<u> </u>	3 h	nitrifying bacteria	Study report (1989)	other: Blok, 1974; Respirometric measure		

12.2. Persistence and degradability



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CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
100-51-6	benzyl alcohol			
	OECD 301A/ ISO 7827/ EEC 92/69/V, C.4-A	95 - 97%	21	
1761-71-3	4,4'-methylenebis(cyclohexylamine)			
	OECD 302B/ ISO 9888/ EEC 92/69/V, C.9	<10%	28	

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water

CAS No	Chemical name	
100-51-6	benzyl alcohol	1,1
1761-71-3	4,4'-methylenebis(cyclohexylamine)	2,2
111-40-0	Diethylenetriamine (2,2'-iminodi(ethylamine))	-1,58

BCF

CAS No	Chemical name	BCF	Species	Source
100-51-6	benzyl alcohol	1		
1761-71-3	4,4'-methylenebis(cyclohexylamine)	< 6	Cyprinus carpio	Study report (2002)
	Diethylenetriamine (2,2'-iminodi(ethylamine))	> 2,8	Cyprinus carpio	Publication (1992)

12.4. Mobility in soil

No information 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.

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Dispose of waste according to applicable legislation.

Contaminated packaging

Non-contaminated packages may be recycled. Dispose of waste according to applicable legislation.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: UN 3259

14.2. UN proper shipping name: AMINES, SOLID, CORROSIVE, N.O.S. (CYCLOALIPHATIC AMINE /

DIETHYLENETETRAMINE)



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8 14.3. Transport hazard class(es): 14.4. Packing group: Ш 8 Hazard label: Classification code: C8 Special Provisions: 274 Limited quantity: 5 kg Excepted quantity: E1 Transport category: 3 Hazard No: 80 Tunnel restriction code: Ε

Inland waterways transport (ADN)

14.1. UN number: UN 3259

14.2. UN proper shipping name: AMINES, SOLID, CORROSIVE, N.O.S. (CYCLOALIPHATIC AMINE /

DIETHYLENETETRAMINE)

14.3. Transport hazard class(es):814.4. Packing group:IIIHazard label:8Classification code:C8Special Provisions:274Limited quantity:5 kgExcepted quantity:E1

Marine transport (IMDG)

14.1. UN number: UN 3259

14.2. UN proper shipping name: AMINES, SOLID, CORROSIVE, N.O.S. (CYCLOALIPHATIC AMINE /

DIETHYLENETETRAMINE)

14.3. Transport hazard class(es):814.4. Packing group:IIIHazard label:8Special Provisions:223, 274Limited quantity:5 kgExcepted quantity:E1

EmS: F-A, S-B Segregation group: alkalis

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 3259

14.2. UN proper shipping name: AMINES, SOLID, CORROSIVE, N.O.S. (CYCLOALIPHATIC AMINE /

DIETHYLENETETRAMINE)

14.3. Transport hazard class(es):814.4. Packing group:IIIHazard label:8Special Provisions:A3 A803



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Limited quantity Passenger: 5 kg
Passenger LQ: Y845
Excepted quantity: E1

IATA-packing instructions - Passenger:860IATA-max. quantity - Passenger:25 kgIATA-packing instructions - Cargo:864IATA-max. quantity - Cargo:100 kg

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

No information available.

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

No information available.

SECTION 15: Regulatory information

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

National regulatory information

Water contaminating class (D): 2 - clearly water contaminating

15.2. Chemical safety assessment

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

Aluminium oxide Silicon carbide benzyl alcohol

4,4'-methylenebis(cyclohexylamine)

Diethylenetriamine (2,2'-iminodi(ethylamine))

Titanium dioxide

SECTION 16: Other information

Abbreviations and acronyms

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

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

RID:Règlement international conernat le transport des marchandises dangereuses par chemin de fer

(Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

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

ICAO: International Civil Aviation Organization

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

CAS: Chemical Abstracts Service (division of the American Chemical Society)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CLP: Regulation on Classification, Labelling and Packaging of Substances and Mixtures,



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LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

EC50: Effectice concentration, 50 percent

DNEL: Derived No Effect Level

PNEC: Predicted No Effect Concentration PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure				
Acute Tox. 4; H332	Calculation method				
Skin Corr. 1B; H314	Calculation method				
Eye Dam. 1; H318	Calculation method				
Skin Sens. 1; H317	Calculation method				
Aquatic Chronic 3; H412	Calculation method				

Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Further Information

This information is based solely on data privided by suppliers of the materials used, not on the mixture itself. No warranty is expressed or implied regarding the suitability of the product for the user's particular purpose.

The user must make their own determination as to suitability.

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