SAFETY DATA SHEET

Version #: 04

Issue date: 06-06-2023 Revision date: 08-01-2023 Supersedes date: 07-13-2023

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

1.1. Product identifier

Trade name or designation

of the mixture

DEVCON® Wear Guard™ 300RTC Hardener-

Registration number

Synonyms None. SKU# 5209

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

Identified usesNot available.Uses advised againstNone known.

1.3. Details of the supplier of the safety data sheet

Company Name ITW Performance Polymers

Address Bay 150

Shannon Industrial Estate

Co. Clare Ireland V14 DF82

Contact Person Customer Service
Telephone Number 353(61)771500

353(61)471285

Email customerservice.shannon@itwpp.com

Emergency Phone Number 44(0) 1235 239 670 (24 hours)

1.4. Emergency telephone number

General in EU 112 (Available 24 hours a day. SDS/Product information may not be available for

the Emergency Service.)

Austria National Poisons

Information Center

+431 406 4343 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Belgium National Poisons

Control Center

070 245 245 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Bulgaria National

Toxicological Information

Center

+359 2 9154 233 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Croatia Poisons Information Center

+385 1 2348 342 (Hours of operation not provided. SDS/Product information may

not be available for the Emergency Service.)

Cyprus Poison Center

1401 (Available 24 hours a day. SDS/Product information may not be available

for the Emergency Service.)

Czech Republic National Poisons Information

Center

+420 224 919 293, or +420 224 915 402 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)

Denmark National Poisons Control Center

+45 82 12 12 12 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

Estonia National Poisons Information Center

available for the Emergency Convice.

16662 or abroad: (+372) 626 9390 (Monday 9:00AM to Saturday 9:00AM (closed on Sundays and on national holidays). SDS/Product information may not be available for the Emergency Service.)

available for the Efficigency of

Finland National Poison Information Center

(09) 471 977 (direct) or (09) 4711 (exchange) (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

France National Poisons Control Center

ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

1.4. Emergency telephone number

Greece Poison Information Centre

(0030) 2107793777 (Available 24 hours a day. SDS/Product information may not

be available for the Emergency Service.)

Hungary National Emergency Phone Number +36-80-201-199 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

Iceland Poison Center

(+354) 543 2222 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Latvia Emergency medical

aid

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Latvia Poison and Drug Information Center

+371 67042473 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Lithuania Neatidėliotina informacija apsinuodijus +370 5 236 20 52 or +37068753378 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)

Malta Accident and Emergency Department 2545 4030 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)

Netherlands National Poisons Information Center (NVIC) NVIC: +31 (0)88 755 8000 (Only for the purpose of informing medical personnel in cases of acute intoxications)

in cases of acute intoxications)

Norway Norwegian Poison Information Center

22 59 13 00 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

Portugal Poison Center

800 250 250 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Romania Biroul RSI si Informare Toxicologica 021.318.36.06 (Available 8:00AM-3:00PM. SDS/Product information may not be

available for the Emergency Service.)

Slovakia National Toxicological Information Center +421 2 5477 4166 (Available 24 hours a day. SDS/Product information may not

be available for the Emergency Service.)

Spain Toxicology Information Service

+ 34 91 562 04 20 (Available 24 hours a day. SDS/Product information may not

be available for the Emergency Service.)

Sweden National Poison Information Center

112 - and ask for Poison Information (Available 24 hours a day. SDS/Product

information may not be available for the Emergency Service.)

Switzerland Tox Info Suisse

145 (Available 24 hours a day. SDS/Product information may not be available for

the Emergency Service.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards

Skin corrosion/irritation Category 1B H314 - Causes severe skin burns

and eye damage.

Serious eye damage/eye irritation Category 1 H318 - Causes serious eye

damage.

Respiratory sensitization Category 1 H334 - May cause allergy or

asthma symptoms or breathing

difficulties if inhaled.

Skin sensitization Category 1 H317 - May cause an allergic skin

reaction.

Reproductive toxicity Category 2 H361 - Suspected of damaging

fertility or the unborn child.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

UFI:

Austria: 7N05-N1VM-4006-4R1S Belgium: 7N05-N1VM-4006-4R1S Bulgaria: 7N05-N1VM-4006-4R1S Croatia: 7N05-N1VM-4006-4R1S Cyprus: 7N05-N1VM-4006-4R1S

Czech Republic: 7N05-N1VM-4006-4R1S
Denmark: 7N05-N1VM-4006-4R1S
Estonia: 7N05-N1VM-4006-4R1S
EU: 7N05-N1VM-4006-4R1S
Finland: 7N05-N1VM-4006-4R1S
France: 7N05-N1VM-4006-4R1S
Germany: 7N05-N1VM-4006-4R1S
Greece: 7N05-N1VM-4006-4R1S
Hungary: 7N05-N1VM-4006-4R1S
Iceland: 7N05-N1VM-4006-4R1S

Ireland: 7N05-N1VM-4006-4R1S Italy: 7N05-N1VM-4006-4R1S Latvia: 7N05-N1VM-4006-4R1S Lithuania: 7N05-N1VM-4006-4R1S Luxembourg: 7N05-N1VM-4006-4R1S Malta: 7N05-N1VM-4006-4R1S Netherlands: 7N05-N1VM-4006-4R1S Norway: 7N05-N1VM-4006-4R1S Poland: 7N05-N1VM-4006-4R1S Portugal: 7N05-N1VM-4006-4R1S Romania: 7N05-N1VM-4006-4R1S

Portugal: 7N05-N1VM-4006-4R1S Romania: 7N05-N1VM-4006-4R1S Slovakia: 7N05-N1VM-4006-4R1S Slovenia: 7N05-N1VM-4006-4R1S Spain: 7N05-N1VM-4006-4R1S Sweden: 7N05-N1VM-4006-4R1S

Contains: 2-piperazin-1-ylethylamine, 4,4'-methylenedicyclohexaneamine,

N,N'-BIS(3-AMINOPROPYL)ETHYLENEDIAMINE, piperazine [liquid]

Hazard pictograms





Signal word Danger

Hazard statements

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.

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

H361 Suspected of damaging fertility or the unborn child.

Precautionary statements

Prevention

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 Wash thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

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

P284 Wear respiratory protection.

Response

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

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

water/shower

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

P310 Immediately call a POISON CENTER/doctor.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage

P405 Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations. P501

Supplemental label information

98,46% of the mixture consists of component(s) of unknown acute oral toxicity. 98,46% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 98,46%

of the mixture consists of component(s) of unknown long-term hazards to the aquatic

environment.

2.3. Other hazards This mixture does not contain substances assessed to be vPvB / PBT according to Regulation

(EC) No 1907/2006. Annex XIII. The mixture does not contain any substances included in the list established in accordance with REACH Article 59(1) for having endocrine disrupting properties at a

concentration equal to or greater than 0.1% by weight.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
4,4'-methylenedicyclohexaneamine	10 - < 20	1761-71-3 217-168-8	-	-	
Classification:	-				
N,N'-BIS(3-AMINOPROPYL)ETHYLE NEDIAMINE	1 - < 3	10563-26-5 234-147-9	-	-	
Classification:	-				
2-piperazin-1-ylethylamine	< 1	140-31-8 205-411-0	01-2119471486-30-0003	612-105-00-4	
Classification:	mg/kg bw),	4;H302;(ATE: 500 m Skin Corr. 1B;H314 ronic 3;H412	ng/kg bw), Acute Tox. 4;H31 , Eye Dam. 1;H318, Skin Se	2;(ATE: 1100 ns. 1;H317,	
piperazine [liquid]	< 0,3	110-85-0 203-808-3	-	612-057-01-1	#
Classification:		1B;H314, Eye Dam. epr. 2;H361fd	1;H318, Resp. Sens. 1;H334	4, Skin Sens.	
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	< 0,2	13463-67-7 236-675-5	01-2119489379-17-0000	022-006-002	
Classification:	Carc. 2;H3	51			
Other components below reportable	80 - < 90				

List of abbreviations and symbols that may be used above

ATE: Acute toxicity estimate.

vPvB: very persistent and very bioaccumulative substance.

PBT: persistent, bioaccumulative and toxic substance.

#: This substance has been assigned Union workplace exposure limit(s).

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition comments The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

General information

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

4.1. Description of first aid measures

Inhalation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

> Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If experiencing respiratory symptoms: Call a

poison center or doctor/physician.

Remove contaminated clothing immediately and wash skin with soap and water. Call a physician Skin contact

or poison control center immediately. Chemical burns must be treated by a physician. Wash

contaminated clothing before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If Ingestion

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

4.2. Most important symptoms and effects, both acute and delayed Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Difficulty in breathing.

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

Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards

No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting procedures

Use water spray to cool unopened containers.

Specific methodsUse standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Do not touch damaged containers or spilled material unless wearing appropriate protective

clothing.

For emergency responders

Keep unnecessary personnel away. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in

Section 8 of the SDS.

6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Following product recovery, flush area

with water.

Small Spills: Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Avoid breathing

dust/fume/gas/mist/vapors/spray. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene

practices.

7.2. Conditions for safe storage, including any incompatibilities

Store locked up. Store in tightly closed container. Store in a well-ventilated place. Store away from

incompatible materials (see Section 10 of the SDS).

7.3. Specific end use(s)Observe industrial sector guidance on best practices.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Austria. MAK List, OEL Ordinance (GwV), BGBI. II, no. 184/2001, as amended

Components	Type	Value Form
piperazine [liquid] (CAS 110-85-0)	MAK	0,1 mg/m3
	STEL	0,3 mg/m3

Austria. MAK List, OEL Ordinance (GwV), BGBI. II, no. 184/2001, as amended

Components	Type	Value	Form
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (CAS 13463-67-7)	MAK	5 mg/m3	Respirable dust.
	STEL	10 mg/m3	Respirable dust.

Belgium. OEL. Exposure Limit Values to Chemical Substances at Work, Code of Well-being at work, Book VI, Title 1 - Chemical agents, as amended

Components	Туре	Value	Form
piperazine [liquid] (CAS 110-85-0)	STEL	0,3 mg/m3	Vapor and aerosol.
	TWA	0,1 mg/m3	Vapor and aerosol.
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (CAS 13463-67-7)	TWA	10 mg/m3	

Bulgaria. OELs. Ordinance No 13 on protection of workers against risks of exposure to chemical agents at work, as amended

Components	Туре	Value	Form
piperazine [liquid] (CAS 110-85-0)	STEL	0,3 mg/m3	
	TWA	0,1 mg/m3	
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (CAS 13463-67-7)	TWA	10 mg/m3	Respirable dust.

Croatia. OELs (GVI). Regulation on Protection of Workers against Exposure to Dangerous Chemicals at Work, OELs and Biological Limit Values, Annex I (NN 91/2018), as amended

Components	Туре	Value	Form
piperazine [liquid] (CAS 110-85-0)	MAC	0,1 mg/m3	
	STEL	0,3 mg/m3	
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (CAS 13463-67-7)	MAC	4 mg/m3	Respirable dust.
		10 mg/m3	Total dust.

Cyprus. OELs. Control of factory atmosphere and dangerous substances in factories regulation, PI 311/73, as amended Components Type Value

10 mg/m3

TWA

titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (CAS 13463-67-7)

Cyprus. OELs. Occupational Exposure Limit Values of Chemicals at Work (Safety and Health at Work (Chem. Agents) Reg., Ann. 1, R.A.A. 268/2001, as amended)

Components	Туре	Value	Form	
piperazine [liquid] (CAS 110-85-0)	STEL	0,3 mg/m3	Vapor and dust.	
	TWA	0,1 mg/m3	Vapor and dust.	

Czech Republic. Occupational exposure limit values of chemicals at work (Decree on protection of health at work, 361/2007, Annex 2, Part A & Annex 3, Part A, as amended)

Components	Туре	Value
piperazine [liquid] (CAS 110-85-0)	Ceiling	0,3 mg/m3

361/2007, Annex 2, Part A & Annex Components	Туре	Value	
	TWA	0,1 mg/m3	
Denmark. Work Environment Authoromponents	ority. Exposure Limits for Su Type	ubstances & Materials, Annex 2 Value	
piperazine [liquid] (CAS 110-85-0)	TLV	0,1 mg/m3	
		0,003 ppm	
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (CAS 13463-67-7)	TLV	6 mg/m3	
Estonia. OELs. Occupational Expo Components	sure Limits of Hazardous Su Type	ıbstances (Regulation No. 105/2 Value	001, Annex), as amended
piperazine [liquid] (CAS 110-85-0)	STEL	0,3 mg/m3	
·	TWA	0,1 mg/m3	
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (CAS 13463-67-7)	TWA	5 mg/m3	
Finland. HTP-arvot, App 3., Binding Components	g Limit Values, Social Affairs Type	s and Ministry of Health Value	Form
piperazine [liquid] (CAS 110-85-0)	STEL	0,3 mg/m3	
		0,084 ppm	
	TWA	0,1 mg/m3	
		0,028 ppm	
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (CAS 13463-67-7)	TWA	10 mg/m3	Dust.
France. OELs. Indicative Occupation Components	onal Exposure Limits as Pre Type	scribed by Order of 30 June 200 Value	4, as amended Form
piperazine [liquid] (CAS 110-85-0)	VLE	0,3 mg/m3	Vapor and dust.
	VME	0,1 mg/m3	Vapor and dust.
France. Threshold Limit Values (VI Components	EP) for Occupational Expos	sure to Chemicals in France, INF Value	RS ED 984 Form
piperazine [liquid] (CAS 110-85-0)	VLE	0,3 mg/m3	Vapor and dust.
Regulatory status: Regulator	ry indicative (VRI)		
	VME	0,1 mg/m3	Vapor and dust.
•	y indicative (VRI)		
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (CAS 13463-67-7)	VME	10 mg/m3	

Regulatory status: Indicative limit (VL)

Components	Туре	Value	Form
itanium dioxide [in powder orm containing 1 % or nore of particles with aerodynamic diameter ≤ 10 um] (CAS 13463-67-7)	TWA	0,3 mg/m3	Respirable fraction.
Germany. TRGS 900, Limit Values Components	in the Ambient Air at the Wor Type	kplace Value	Form
oiperazine [liquid] (CAS l10-85-0)	AGW	0,1 mg/m3	Vapor and aerosol.
itanium dioxide [in powder orm containing 1 % or nore of particles with aerodynamic diameter ≤ 10 um] (CAS 13463-67-7)	AGW	10 mg/m3	Inhalable fraction.
		1,25 mg/m3	Respirable fraction.
Greece. OELs, Presidential Decree Components	No. 307/1986, as amended Type	Value	Form
piperazine [liquid] (CAS 110-85-0)	STEL	0,3 mg/m3	Vapor and dust.
110-03-0)	TWA	0,1 mg/m3	Vapor and dust.
itanium dioxide [in powder form containing 1 % or more of particles with perodynamic diameter ≤ 10 um] (CAS 13463-67-7)	TWA	5 mg/m3	Respirable.
] (o/ to 10 10 0 0 / 1)		10 mg/m3	Inhalable
Hungary. OELs. Decree on protect Components	ion of workers exposed to ch Type	emical agents (5/2020. (II.6)), <i>i</i> Value	Annex 1&2, as amended
piperazine [liquid] (CAS	STEL	0,3 mg/m3	
l 10-85-0)			
110-85-0)	TWA	0,1 mg/m3	
(10-85-0) celand. OELs. Regulation 390/200 Components			the Workplace, as amend
celand. OELs. Regulation 390/200	9 on Pollution Limits and Mea	asures to Reduce Pollution at	the Workplace, as amend
celand. OELs. Regulation 390/200 Components biperazine [liquid] (CAS	9 on Pollution Limits and Mea	asures to Reduce Pollution at Value	the Workplace, as amend
celand. OELs. Regulation 390/200 Components biperazine [liquid] (CAS	9 on Pollution Limits and Mea Type STEL	asures to Reduce Pollution at Value 0,3 mg/m3	the Workplace, as amend
celand. OELs. Regulation 390/200 Components Diperazine [liquid] (CAS 110-85-0) itanium dioxide [in powder orm containing 1 % or more of particles with derodynamic diameter ≤ 10	9 on Pollution Limits and Mea Type STEL TWA TWA	0,3 mg/m3 0,1 mg/m3 6 mg/m3	
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celand. OELs. Regulation 390/200 Components Diperazine [liquid] (CAS 110-85-0) itanium dioxide [in powder form containing 1 % or more of particles with faerodynamic diameter ≤ 10 Jum] (CAS 13463-67-7) reland. OELVs, Schedules 1 & 2, C Components Diperazine [liquid] (CAS 110-85-0) itanium dioxide [in powder form containing 1 % or more of particles with faerodynamic diameter ≤ 10 Jum] (CAS 13463-67-7)	9 on Pollution Limits and Mea Type STEL TWA TWA Code of Practice for Chemical Type STEL TWA TWA TWA	O,3 mg/m3 O,1 mg/m3 O,3 mg/m3 O,1 mg/m3 O,3 mg/m3 O,1 mg/m3 O,3 mg/m3 O,1 mg/m3	gulations Form
celand. OELs. Regulation 390/200 Components Diperazine [liquid] (CAS 110-85-0) itanium dioxide [in powder orm containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (CAS 13463-67-7) reland. OELVs, Schedules 1 & 2, Components Diperazine [liquid] (CAS 110-85-0) itanium dioxide [in powder orm containing 1 % or more of particles with aerodynamic diameter ≤ 10	9 on Pollution Limits and Mea Type STEL TWA TWA Code of Practice for Chemical Type STEL TWA TWA TWA	Agents and Carcinogens Reg Value 0,3 mg/m3 0,1 mg/m3 6 mg/m3 Agents and Carcinogens Reg Value 0,3 mg/m3 0,1 mg/m3 4 mg/m3	gulations Form Respirable dust.
celand. OELs. Regulation 390/200 Components Diperazine [liquid] (CAS 110-85-0) itanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 Jum] (CAS 13463-67-7) reland. OELVs, Schedules 1 & 2, 0 Components Diperazine [liquid] (CAS 110-85-0) itanium dioxide [in powder form containing 1 % or more of particles with ferodynamic diameter ≤ 10 Jum] (CAS 13463-67-7) taly. OELs (Legislative Decree n.8	9 on Pollution Limits and Mea Type STEL TWA TWA Code of Practice for Chemical Type STEL TWA TWA TWA TWA TWA TWA	Agents and Carcinogens Reg Value 0,3 mg/m3 0,1 mg/m3 6 mg/m3 Agents and Carcinogens Reg Value 0,3 mg/m3 0,1 mg/m3 4 mg/m3	gulations Form Respirable dust. Total inhalable dust.

Italy. OELs (Legislative Decree n.: Components	81, 9 April 2008), as amended Type	Value	Form
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (CAS 13463-67-7)	TWA	2,5 mg/m3	Respirable finescale particles
		0,2 mg/m3	Respirable nanoscale particles

Latvia. OELs. Occupational Exposure Limits of Chemical Substances at Workplace (Reg. No. 325/ 2007, L.V. 80, Annex 1), as amended

Components	Туре	Value	
piperazine [liquid] (CAS 110-85-0)	STEL	0,3 mg/m3	
	TWA	0,1 mg/m3	
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (CAS 13463-67-7)	TWA	10 mg/m3	

Lithuania. OELs. Occupational Exposure Limit Values for Chemical Substances (Hygiene Norm HN 23:2011; Order No. V-824/A1-389), as amended

Components	Туре	Value	
piperazine [liquid] (CAS 110-85-0)	TWA	0,1 mg/m3	
		0,3 ppm	
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (CAS 13463-67-7)	TWA	5 mg/m3	

Luxembourg. OELs. Binding Occupational Exposure Limit Values (Annex I), G.D.R. of 14 November 2016, OJ Memorial A, n ° 235/2016, as amended

Components	Туре	Value	Form
piperazine [liquid] (CAS 110-85-0)	STEL	0,3 mg/m3	Vapor and dust.
	TWA	0,1 mg/m3	Vapor and dust.

Malta. OELs. Protection of Health and Safety of Workers from Risks related to Chemical Agents at Work (L.N 227/2003 Schedules I and V), as amended

Components	Туре	Value	
piperazine [liquid] (CAS 110-85-0)	STEL	0,3 mg/m3	
	TWA	0,1 mg/m3	

Netherlands. OELs per Annex XIII of Working Conditions Regulation (Staatscourant no. 252, 29 December 2006), as amended

Components	Туре	Value	
piperazine [liquid] (CAS 110-85-0)	STEL	0,3 mg/m3	
	TWA	0,1 mg/m3	

Norway. Regulation No. 1358 on Measures and Limit Values for Physical and Chemical Factors in Work Environment and Infection Groups for Biological Factors, as amended

Components	Туре	Value	
piperazine [liquid] (CAS 110-85-0)	STEL	0,3 mg/m3	
	TLV	0,1 mg/m3	
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (CAS 13463-67-7)	TLV	5 mg/m3	

Poland. Maximum permissible concentrations and intensities of harmful factors in the work environment (Dz.U.Poz. 1286/2018, Annex 1)

Components	Туре	Value	Form
piperazine [liquid] (CAS 110-85-0)	STEL	0,3 mg/m3	
	TWA	0,1 mg/m3	
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (CAS 13463-67-7)	STEL	30 mg/m3	
	TWA	10 mg/m3	Inhalable fraction.

Portugal. Decree-Law No. 24/2012, Occupational Exposure Limit Values, Annex II, as amended

Components	туре	value
piperazine [liquid] (CAS 110-85-0)	STEL	0,3 mg/m3
	TWA	0,1 mg/m3

Portugal. VLEs. Norm on occupati Components	Type	Value	Form
piperazine [liquid] (CAS 110-85-0)	TWA	0,03 ppm	Inhalable fraction and vapor.
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (CAS 13463-67-7)	TWA	10 mg/m3	

Romania. OELs. Limit Values of Chemical Agents at Workplace (Regulation 1.218/2006, M.O 845, Annex 1, 3&4, as amended)

Components	Туре	Value	
piperazine [liquid] (CAS 110-85-0)	STEL	0,3 mg/m3	
	TWA	0,1 mg/m3	
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (CAS 13463-67-7)	STEL	15 mg/m3	
	TWA	10 mg/m3	

Slovakia. OELs. Maximum permissible exposure limits for chemical factors in workplace air (Regulation No 355/2006, Annex 1, Table 1, as amended)

Components	Туре	Value	
piperazine [liquid] (CAS 110-85-0)	STEL	0,3 mg/m3	
	TWA	0,1 mg/m3	
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (CAS 13463-67-7)	TWA	5 mg/m3	

Slovenia. OELs. Occupational Exposure Limits of Chemicals at Workplace (Reg. on Protection of Workers from Risks due to Exp. to Chemicals at Work, Annex I), as amended

Components	Туре	Value	Form
piperazine [liquid] (CAS 110-85-0)	TWA	0,1 mg/m3	
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (CAS 13463-67-7)	TWA	10 mg/m3	Inhalable fraction.
		1,25 mg/m3	Respirable fraction.

Spain. OELs. INSST, Límites de Exposición Profesional Para Agentes Químicos, Table 1-Valores Límites Ambientales (VLAs)

Components	Туре	Value	Form
piperazine [liquid] (CAS 110-85-0)	STEL	0,3 mg/m3	Inhalable fraction and vapor.
	TWA	0,1 mg/m3	Inhalable fraction and vapor.
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (CAS 13463-67-7)	TWA	10 mg/m3	

Sweden. OELs (Annex 1). Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2018:1), as amended

Components	Туре	Value	Form
piperazine [liquid] (CAS 110-85-0)	Ceiling	0,3 mg/m3	
		0,08 ppm	
	TWA	0,1 mg/m3	
		0,03 ppm	
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (CAS 13463-67-7)	TWA	5 mg/m3	Total dust.

Switzerland. SUVA Grenzwerte am Arbeitsplatz: Aktuelle MAK-Werte

Components	Туре	Value	Form
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (CAS 13463-67-7)	TWA	3 mg/m3	Respirable dust.

UK. OELs. Workplace Exposure Limits (WELs) (EH40/2005 (Fourth Edition 2020)), Table 1

Components	Type	Value	Form	
piperazine [liquid] (CAS 110-85-0)	STEL	0,3 mg/m3		
	TWA	0,1 mg/m3		
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (CAS 13463-67-7)	TWA	4 mg/m3	Respirable.	
		10 mg/m3	Inhalable	

EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU Components Type Value

piperazine [liquid] (CAS 110-85-0)	STEL	0,3 mg/m3
110 00 0)	TWA	0,1 mg/m3

Biological limit values	No biological exposure limits noted for the ingredient(s).
B	

D. 1	NI-4 SI-I-I-
procedures	
Recommended monitoring	Follow Standard Monitoring proce

Derived no effect levels	NOL available
(DNELs)	

Predicted no effect N concentrations (PNECs)

Not available.

8.2. Exposure controls

Appropriate engineering

controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. General ventilation normally adequate. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

General information

Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective

equipment.

Eye/face protection Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection

- Hand protection Wear appropriate chemical resistant gloves.

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. - Other

Wear positive pressure self-contained breathing apparatus (SCBA). Respiratory protection

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Hygiene measures Observe any medical surveillance requirements. Always observe good personal hygiene

measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

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

Environmental exposure

controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Solid. Physical state **Form** Solid. Color Grey.

Ammoniacal. Odor Melting point/freezing point Not available. **Boiling point or initial boiling** Not available.

point and boiling range

Flammability Not available.

Flash point 230,0 °F (110,0 °C) estimated

Not available. **Auto-ignition temperature** Not available **Decomposition temperature** Not available. Kinematic viscosity Not available.

Solubility

Solubility (water) Not available. Partition coefficient Not available.

(n-octanol/water) (log value)

0.0004 hPa estimated Vapor pressure

Density and/or relative density

2,06 g/cm3 Density Not available Vapor density Not available. Particle characteristics

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No relevant additional information available.

9.2.2. Other safety characteristics 2,06 Specific gravity

SECTION 10: Stability and reactivity

10.1. Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability Material is stable under normal conditions. 10.3. Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

Contact with incompatible materials.

10.5. Incompatible materials

Peroxides. Phenols.

10.6. Hazardous

No hazardous decomposition products are known.

decomposition products

SECTION 11: Toxicological information

Occupational exposure to the substance or mixture may cause adverse effects. **General information**

Information on likely routes of exposure

Inhalation May cause irritation to the respiratory system. May cause allergy or asthma symptoms or

breathing difficulties if inhaled. Prolonged inhalation may be harmful.

Causes severe skin burns. May cause an allergic skin reaction. Skin contact

Eye contact Causes serious eye damage. Ingestion Causes digestive tract burns.

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may **Symptoms**

include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

blindness could result. Difficulty in breathing.

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

Not known. Acute toxicity

Components **Species Test Results**

piperazine [liquid] (CAS 110-85-0)

Acute Oral

LD50 Rat 2050 mg/kg

titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (CAS 13463-67-7)

Acute Dermal

LD50 Hamster >= 10000 mg/kg

Oral

LD50 Rat > 10000 mg/kg

Skin corrosion/irritation Causes severe skin burns and eye damage.

Serious eve damage/eve

irritation

Causes serious eye damage.

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

Skin sensitization May cause an allergic skin reaction.

Due to partial or complete lack of data the classification is not possible. Germ cell mutagenicity Carcinogenicity Due to partial or complete lack of data the classification is not possible.

Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)

titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (CAS 13463-67-7)

IARC Monographs. Overall Evaluation of Carcinogenicity

titanium dioxide [in powder form containing 1 % or more 2B Possibly carcinogenic to humans.

of particles with aerodynamic diameter ≤ 10 μm]

(CAS 13463-67-7)

Reproductive toxicity Suspected of damaging fertility or the unborn child.

Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)

piperazine [liquid] (CAS 110-85-0)

Toxic for reproduction - category 2.

Specific target organ toxicity -

single exposure

Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity -

repeated exposure

Due to partial or complete lack of data the classification is not possible.

Due to partial or complete lack of data the classification is not possible. **Aspiration hazard**

Mixture versus substance

information

No information available.

11.2. Information on other hazards

Endocrine disrupting properties

This mixture does not contain any substances having endocrine disrupting properties with respect to human health as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than

0.1% by weight.

Other information Not available.

SECTION 12: Ecological information

12.1. ToxicityBased on available data, the classification criteria are not met for hazardous to the aquatic

environment.

Not available

No data available.

12.2. Persistence and

degradability

No data is available on the degradability of any ingredients in the mixture.

12.3. Bioaccumulative potential

Partition coefficient
n-octanol/water (log Kow)
2-ninerazin-1-vlethylami

2-piperazin-1-ylethylamine piperazine [liquid]

-1,57 -1,5

Bioconcentration factor (BCF)
12.4. Mobility in soil

12.5. Results of PBT and vPvB

12.6. Endocrine disrupting

properties

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation

(EC) No 1907/2006, Annex XIII.

This mixture does not contain any substances having endocrine disrupting properties with respect to the environment as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.

12.7. Other adverse effectsNo other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

EU waste codeThe Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

Special precautions Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. UN number UN3263

14.2. UN proper shipping CORROSIVE SOLID, BASIC, ORGANIC, N.O.S. (4,4'-methylenedicyclohexaneamine), Limited

name Quantity

14.3. Transport hazard class(es)

Class 8
Subsidiary risk Label(s) 8
Hazard No. (ADR) 80
Tunnel restriction code E
14.4. Packing group III

14.5. Environmental hazards No. **14.6. Special precautions** Rea

Read safety instructions, SDS and emergency procedures before handling.

for user

RID

14.1. UN number UN3263

14.2. UN proper shipping CORROSIVE SOLID, BASIC, ORGANIC, N.O.S. (4,4'-methylenedicyclohexaneamine), Limited

name Quantity

14.3. Transport hazard class(es)
Class 8
Subsidiary risk -

Label(s) 8
14.4. Packing group III
14.5. Environmental hazards No.

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

ADN

14.1. UN number UN3263

14.2. UN proper shipping CORROSIVE SOLID, BASIC, ORGANIC, N.O.S. (4,4'-methylenedicyclohexaneamine)

name

14.3. Transport hazard class(es)

Class 8
Subsidiary risk Label(s) 8

14.4. Packing group III

14.5. Environmental hazards No.

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

IATA

14.1. UN number UN3263

14.2. UN proper shipping Corrosive solid, basic, organic, n.o.s. (4,4'-methylenedicyclohexaneamine), Limited Quantity

name

14.3. Transport hazard class(es)

Class 8
Subsidiary risk
14.4. Packing group III

14.5. Environmental hazards No.
ERG Code 8L

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

Other information

Passenger and cargo Allowed with restrictions.

aircraft

Cargo aircraft only Allowed with restrictions.

IMDG

14.1. UN number UN3263

14.2. UN proper shipping CORROSIVE SOLID, BASIC, ORGANIC, N.O.S. (4,4'-methylenedicyclohexaneamine), Limited

name Quantity

14.3. Transport hazard class(es)
Class 8
Subsidiary risk 14.4. Packing group III
14.5. Environmental hazards
Marine pollutant No.

EmS F-A, S-B

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

14.7. Maritime transport in bulk Not applicable.

according to IMO instruments

ADN



ADR; IMDG; RID



SECTION 15: Regulatory information

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

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended Not listed.

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (CAS 13463-67-7)

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

UFI:

Austria: 7N05-N1VM-4006-4R1S Belgium: 7N05-N1VM-4006-4R1S Bulgaria: 7N05-N1VM-4006-4R1S Croatia: 7N05-N1VM-4006-4R1S Cyprus: 7N05-N1VM-4006-4R1S

Czech Republic: 7N05-N1VM-4006-4R1S Denmark: 7N05-N1VM-4006-4R1S Estonia: 7N05-N1VM-4006-4R1S EU: 7N05-N1VM-4006-4R1S Finland: 7N05-N1VM-4006-4R1S France: 7N05-N1VM-4006-4R1S Germany: 7N05-N1VM-4006-4R1S Greece: 7N05-N1VM-4006-4R1S Hungary: 7N05-N1VM-4006-4R1S Iceland: 7N05-N1VM-4006-4R1S Ireland: 7N05-N1VM-4006-4R1S Italy: 7N05-N1VM-4006-4R1S Latvia: 7N05-N1VM-4006-4R1S Lithuania: 7N05-N1VM-4006-4R1S Luxembourg: 7N05-N1VM-4006-4R1S Malta: 7N05-N1VM-4006-4R1S Netherlands: 7N05-N1VM-4006-4R1S Norway: 7N05-N1VM-4006-4R1S Poland: 7N05-N1VM-4006-4R1S Portugal: 7N05-N1VM-4006-4R1S Romania: 7N05-N1VM-4006-4R1S Slovakia: 7N05-N1VM-4006-4R1S Slovenia: 7N05-N1VM-4006-4R1S

Authorizations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed

Spain: 7N05-N1VM-4006-4R1S Sweden: 7N05-N1VM-4006-4R1S

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended - Conditions of restriction given for the associated entry number should be considered

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended

piperazine [liquid] (CAS 110-85-0)

Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation

(EC) No 1907/2006, as amended.

National regulations

According to Directive 92/85/EEC as amended, pregnant women should not work with the product, if there is the least risk of exposure.

Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work, as amended. Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

Contains a substance which is included on the TRGS 905 list of carcinogenic, germ cell mutagenic and reproductive toxic substances

titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (CAS 13463-67-7)

Anorganische Faserstäube, soweit nicht erwähnt (ausgenommen Gipsfasernund Wollastonitfasern)

France regulations

France INRS Table of Occupational Diseases

Not regulated.

Product registration number

Austria UFI: 7N05-N1VM-4006-4R1S **Belgium** UFI: 7N05-N1VM-4006-4R1S **Czech Republic** UFI: 7N05-N1VM-4006-4R1S **Denmark** UFI: 7N05-N1VM-4006-4R1S **European Union** UFI: 7N05-N1VM-4006-4R1S **Finland** UFI: 7N05-N1VM-4006-4R1S UFI: 7N05-N1VM-4006-4R1S **France** Germany UFI: 7N05-N1VM-4006-4R1S Greece UFI: 7N05-N1VM-4006-4R1S

UFI: 7N05-N1VM-4006-4R1S Hungary Italy UFI: 7N05-N1VM-4006-4R1S **Netherlands** UFI: 7N05-N1VM-4006-4R1S UFI: 7N05-N1VM-4006-4R1S Norway **Poland** UFI: 7N05-N1VM-4006-4R1S **Portugal** UFI: 7N05-N1VM-4006-4R1S Slovakia UFI: 7N05-N1VM-4006-4R1S UFI: 7N05-N1VM-4006-4R1S Slovenia **Spain** UFI: 7N05-N1VM-4006-4R1S UFI: 7N05-N1VM-4006-4R1S Sweden UFI: 7N05-N1VM-4006-4R1S **Switzerland**

15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland

Waterways.

ADR: Agreement concerning the International Carriage of Dangerous Goods by Road.

AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert - Germany).

CAS: Chemical Abstract Service.

CEN: European Committee for Standardization.

IATA: International Air Transport Association.

IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous

Chemicals in Bulk.

IMDG: International Maritime Dangerous Goods.

MAC: Maximum Allowed Concentration.

MARPOL: International Convention for the Prevention of Pollution from Ships.

PBT: Persistent, bioaccumulative and toxic.

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

STEL: Short term exposure limit. TLV: Threshold Limit Value. TWA: Time Weighted Average. VLE: Exposure Limit Value. VME: Exposure Average Value.

vPvB: Very persistent and very bioaccumulative.

References

Information on evaluation method leading to the classification of mixture

Full text of any statements, which are not written out in full under sections 2 to 15

Not available.

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

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. H318 Causes serious eye damage.

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

H351 Suspected of causing cancer.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

H412 Harmful to aquatic life with long lasting effects.

Revision information

Training information

None.

Follow training instructions when handling this material.

Disclaimer

ITW Performance Polymers cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.