SAFETY DATA SHEET

Version #: 06

Issue date: 05-29-2019 Revision date: 07-31-2023 Supersedes date: 07-15-2023

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 Resistant Putty (WR-2) Resin

Registration number

Synonyms None. SKU# 0106

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

+45 82 12 12 (Available 24 hours a day. SDS/Product information may not be

Control Center available for the Emergency Service.)

Estonia National Poisons Information Center

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.)

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

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

Latvia Poison and Drug Information Center Lithuania Neatidėliotina

available for the Emergency Service.)
+370 5 236 20 52 or +37068753378 (Hours of operation not provided.

informacija apsinuodijus Malta Accident and Emergency Department SDS/Product information may not be available for the Emergency Service.)

Netherlands National Poisons Information Center (NVIC) $2545\,4030$ (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)

on 22 59

113

NVIC: +31 (0)88 755 8000 (Only for the purpose of informing medical personnel 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 2 H315 - Causes skin irritation.
Serious eye damage/eye irritation Category 2 H319 - Causes serious eye

irritation.

Skin sensitization Category 1 H317 - May cause an allergic skin

reaction.

2.2. Label elements

Material name: DEVCON® Wear Resistant Putty (WR-2) Resin 0106 Version #: 06 Revision date: 07-31-2023 Issue date: 05-29-2019

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

UFI:

Austria: 5K20-10HE-R00M-P0KM Belgium: 5K20-10HE-R00M-P0KM Bulgaria: 5K20-10HE-R00M-P0KM Croatia: 5K20-10HE-R00M-P0KM Cyprus: 5K20-10HE-R00M-P0KM

Cyprus: 5K20-10HE-R00M-P0KM
Czech Republic: 5K20-10HE-R00M-P0KM
Denmark: 5K20-10HE-R00M-P0KM
Estonia: 5K20-10HE-R00M-P0KM
EU: 5K20-10HE-R00M-P0KM
Finland: 5K20-10HE-R00M-P0KM
France: 5K20-10HE-R00M-P0KM
Germany: 5K20-10HE-R00M-P0KM
Greece: 5K20-10HE-R00M-P0KM
Hungary: 5K20-10HE-R00M-P0KM
Iceland: 5K20-10HE-R00M-P0KM
Ireland: 5K20-10HE-R00M-P0KM
Italy: 5K20-10HE-R00M-P0KM
Latvia: 5K20-10HE-R00M-P0KM
Lithuania: 5K20-10HE-R00M-P0KM
Lithuania: 5K20-10HE-R00M-P0KM
Luxembourg: 5K20-10HE-R00M-P0KM

Lithuania: 5K20-10HE-R00M-P0KM
Luxembourg: 5K20-10HE-R00M-P0KM
Malta: 5K20-10HE-R00M-P0KM
Netherlands: 5K20-10HE-R00M-P0KM
Norway: 5K20-10HE-R00M-P0KM
Poland: 5K20-10HE-R00M-P0KM
Portugal: 5K20-10HE-R00M-P0KM
Romania: 5K20-10HE-R00M-P0KM
Slovakia: 5K20-10HE-R00M-P0KM
Slovenia: 5K20-10HE-R00M-P0KM
Spain: 5K20-10HE-R00M-P0KM

Sweden: 5K20-10HE-R00M-P0KM

Contains: Aluminium Oxide, Epoxy Resin: reaction product of bisphenol A and epichlorohydrin (refer to

epichlorohydrin)

Hazard pictograms



Signal word Warning

Hazard statements

H315 Causes skin irritation.

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

Precautionary statements

Prevention

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 eye protection/face protection.

P280 Wear protective gloves.

Response

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.

P333 + P313 If skin irritation or rash occurs: Ğet medical advice/attention.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage Not available.

Disposal

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

Supplemental label information None.

2.3. Other hazards This

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.

Material name: DEVCON® Wear Resistant Putty (WR-2) Resin 0106 Version #: 06 Revision date: 07-31-2023 Issue date: 05-29-2019

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Aluminium Oxide	40 - 70	1344-28-1 215-691-6	-	-	
Classification:	-				
Epoxy Resin: reaction product of bisphenol A and epichlorohydrin (refer to epichlorohydrin)	15 - 40	25068-38-6 -	01-2119456619-26-0000	-	
Classification:	Skin Irrit. 2	;H315, Eye Irrit. 2;H3	319, Skin Sens. 1;H317		

Other components below reportable 1 - < 3

levels

List of abbreviations and symbols that may be used above

ATE: Acute toxicity estimate.

M: M-factor

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.

SECTION 4: First aid measures

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves. Wash contaminated clothing before reuse.

4.1. Description of first aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. In case of

eczema or other skin disorders: Seek medical attention and take along these instructions. 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. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

4.2. Most important symptoms

delayed

and effects, both acute and

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis.

4.3. Indication of any immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. 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

media

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 methods Use 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. Do not touch or walk through spilled material.

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

Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good

industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed container. 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	ria. MAK List, OEL Ordinance (GwV), BGBI. II, no. 184/2001, as amended		
Components	Туре	Value	Form
Aluminium Oxide (CAS 1344-28-1)	MAK	5 mg/m3	Respirable fraction.
		5 mg/m3	Respirable fume.
		10 mg/m3	Inhalable fraction.
	STEL	20 mg/m3	Inhalable fraction.
		10 mg/m3	Respirable fume.
		10 mg/m3	Respirable fraction.
Graphite (CAS 7782-42-5)	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
Aluminium Oxide (CAS 1344-28-1)	TWA	1 mg/m3	Respirable fraction.
Graphite (CAS 7782-42-5)	TWA	2 mg/m3	Respirable fraction.

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

Components	Туре	Value	Form
Aluminium Oxide (CAS 1344-28-1)	TWA	10 mg/m3	Inhalable fraction.
		1,5 mg/m3	Respirable fraction.
Graphite (CAS 7782-42-5)	TWA	5 mg/m3	Inhalable fraction.

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
Aluminium Oxide (CAS 1344-28-1)	MAC	4 mg/m3	Respirable dust.
		10 mg/m3	Total dust.
Graphite (CAS 7782-42-5)	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

Graphite (CAS 7782-42-5) TWA 10 mg/m3

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	Form
Aluminium Oxide (CAS 1344-28-1)	TWA	0,1 mg/m3	Respirable dust.
Graphite (CAS 7782-42-5)	TWA	2 mg/m3	Respirable dust.
		10 mg/m3	Total dust.
Denmark. Work Environment Auth Components	nority. Exposure Limits for Substan Type	ces & Materials, Annex 2 Value	? Form
Aluminium Oxide (CAS 1344-28-1)	TLV	5 mg/m3	Total
,		2 mg/m3	Respirable.
Graphite (CAS 7782-42-5)	TLV	2,5 mg/m3	Respirable.
Estonia. OELs. Occupational Expo Components	osure Limits of Hazardous Substand Type	ces (Regulation No. 105/ Value	2001, Annex), as amende Form
Aluminium Oxide (CAS 1344-28-1)	TWA	4 mg/m3	Fine dust, respiratory fraction
		10 mg/m3	Total dust.
Graphite (CAS 7782-42-5)	TWA	5 mg/m3	Total dust.
Finland. HTP-arvot, App 3., Bindin Components	g Limit Values, Social Affairs and N Type	Ministry of Health Value	
Graphite (CAS 7782-42-5)	TWA	2 mg/m3	
France. Threshold Limit Values (V Components	LEP) for Occupational Exposure to Type	Chemicals in France, IN Value	RS ED 984 Form
Aluminium Oxide (CAS 1344-28-1)	VME	10 mg/m3	
•	VME e limit (VL)	2 mg/m3	Respirable fraction.
Graphite (CAS 7782-42-5) Regulatory status: Indicative Germany. DFG MAK List (advisory n the Work Area (DFG), as update	VME e limit (VL) v OELs). Commission for the Invested	igation of Health Hazard	s of Chemical Compoun
Graphite (CAS 7782-42-5) Regulatory status: Indicative Germany. DFG MAK List (advisory n the Work Area (DFG), as update Components	VME e limit (VL) y OELs). Commission for the Invested Type	igation of Health Hazard Value	s of Chemical Compoun Form
Graphite (CAS 7782-42-5) Regulatory status: Indicative Germany. DFG MAK List (advisory n the Work Area (DFG), as update Components Aluminium Oxide (CAS	VME e limit (VL) v OELs). Commission for the Invested	igation of Health Hazard	s of Chemical Compoun
Graphite (CAS 7782-42-5) Regulatory status: Indicative Germany. DFG MAK List (advisory n the Work Area (DFG), as update Components Aluminium Oxide (CAS	VME e limit (VL) y OELs). Commission for the Invested Type	igation of Health Hazard Value	s of Chemical Compoun Form
Graphite (CAS 7782-42-5) Regulatory status: Indicative Germany. DFG MAK List (advisory n the Work Area (DFG), as update Components Aluminium Oxide (CAS 1344-28-1)	VME e limit (VL) y OELs). Commission for the Invested Type	igation of Health Hazard Value 4 mg/m3	s of Chemical Compoun Form Inhalable dust.
Graphite (CAS 7782-42-5) Regulatory status: Indicative Germany. DFG MAK List (advisory n the Work Area (DFG), as update Components Aluminium Oxide (CAS 1344-28-1)	VME e limit (VL) f OELs). Commission for the Invested Type TWA	Value 4 mg/m3 1,5 mg/m3	s of Chemical Compoun Form Inhalable dust. Respirable dust.
Graphite (CAS 7782-42-5) Regulatory status: Indicative Germany. DFG MAK List (advisory n the Work Area (DFG), as update Components Aluminium Oxide (CAS 1344-28-1) Graphite (CAS 7782-42-5) Germany. TRGS 900, Limit Values	VME e limit (VL) f OELs). Commission for the Invested Type TWA	Value 4 mg/m3 1,5 mg/m3 4 mg/m3 0,3 mg/m3	Form Inhalable dust. Respirable dust. Inhalable fraction.
Graphite (CAS 7782-42-5) Regulatory status: Indicative Germany. DFG MAK List (advisory n the Work Area (DFG), as update Components Aluminium Oxide (CAS 1344-28-1) Graphite (CAS 7782-42-5) Germany. TRGS 900, Limit Values Components Aluminium Oxide (CAS	VME e limit (VL) y OELs). Commission for the Invested Type TWA TWA TWA	Value 4 mg/m3 1,5 mg/m3 4 mg/m3 0,3 mg/m3	Form Inhalable dust. Respirable dust. Inhalable fraction. Respirable fraction.
Graphite (CAS 7782-42-5) Regulatory status: Indicative Germany. DFG MAK List (advisory n the Work Area (DFG), as update Components Aluminium Oxide (CAS 1344-28-1) Graphite (CAS 7782-42-5) Germany. TRGS 900, Limit Values Components Aluminium Oxide (CAS	VME e limit (VL) y OELs). Commission for the Invested Type TWA TWA in the Ambient Air at the Workplac	Value 4 mg/m3 1,5 mg/m3 4 mg/m3 0,3 mg/m3 ee Value	s of Chemical Compoun Form Inhalable dust. Respirable dust. Inhalable fraction. Respirable fraction. Form
Graphite (CAS 7782-42-5) Regulatory status: Indicative Germany. DFG MAK List (advisory in the Work Area (DFG), as update Components Aluminium Oxide (CAS 1344-28-1) Germany. TRGS 900, Limit Values Components Aluminium Oxide (CAS 1344-28-1)	VME e limit (VL) y OELs). Commission for the Invested Type TWA TWA in the Ambient Air at the Workplac	Value 4 mg/m3 1,5 mg/m3 4 mg/m3 0,3 mg/m3 e Value 10 mg/m3	Form Inhalable dust. Respirable dust. Inhalable fraction. Respirable fraction. Form Inhalable fraction.
Regulatory status: Indicative Regula	VME e limit (VL) y OELs). Commission for the Invested Type TWA TWA in the Ambient Air at the Workplac Type AGW	Value 4 mg/m3 1,5 mg/m3 4 mg/m3 0,3 mg/m3 e Value 10 mg/m3 1,25 mg/m3	Form Inhalable dust. Respirable dust. Inhalable fraction. Respirable fraction. Form Inhalable fraction. Respirable fraction.
Graphite (CAS 7782-42-5) Regulatory status: Indicative Germany. DFG MAK List (advisory in the Work Area (DFG), as update Components Aluminium Oxide (CAS 1344-28-1) Graphite (CAS 7782-42-5) Germany. TRGS 900, Limit Values Components Aluminium Oxide (CAS 1344-28-1) Graphite (CAS 7782-42-5) Graphite (CAS 7782-42-5) Graphite (CAS 7782-42-5)	VME e limit (VL) y OELs). Commission for the Invested Type TWA TWA in the Ambient Air at the Workplac Type AGW AGW	Value 4 mg/m3 1,5 mg/m3 4 mg/m3 0,3 mg/m3 e Value 10 mg/m3 1,25 mg/m3 10 mg/m3	Form Inhalable dust. Respirable dust. Inhalable fraction. Respirable fraction. Form Inhalable fraction. Respirable fraction. Inhalable fraction.
Graphite (CAS 7782-42-5) Regulatory status: Indicative Germany. DFG MAK List (advisory in the Work Area (DFG), as update Components Aluminium Oxide (CAS 1344-28-1) Graphite (CAS 7782-42-5) Germany. TRGS 900, Limit Values Components Aluminium Oxide (CAS 1344-28-1) Graphite (CAS 7782-42-5) Graphite (CAS 7782-42-5) Greece. OELs, Presidential Decree Components Aluminium Oxide (CAS 144-28-1)	VME e limit (VL) y OELs). Commission for the Invested Type TWA TWA In the Ambient Air at the Workplac Type AGW AGW No. 307/1986, as amended	Value 4 mg/m3 1,5 mg/m3 4 mg/m3 0,3 mg/m3 e Value 10 mg/m3 1,25 mg/m3 1,25 mg/m3 1,25 mg/m3	Form Inhalable dust. Respirable dust. Inhalable fraction. Respirable fraction. Form Inhalable fraction. Respirable fraction. Respirable fraction. Respirable fraction. Respirable fraction. Respirable fraction. Respirable fraction.
Graphite (CAS 7782-42-5) Regulatory status: Indicative Germany. DFG MAK List (advisory in the Work Area (DFG), as update Components Aluminium Oxide (CAS 1344-28-1) Graphite (CAS 7782-42-5) Germany. TRGS 900, Limit Values Components Aluminium Oxide (CAS 1344-28-1) Graphite (CAS 7782-42-5) Graphite (CAS 7782-42-5) Greece. OELs, Presidential Decree Components Aluminium Oxide (CAS 144-28-1)	VME e limit (VL) y OELs). Commission for the Invested Type TWA TWA TWA in the Ambient Air at the Workplac Type AGW AGW No. 307/1986, as amended Type	Value 4 mg/m3 1,5 mg/m3 4 mg/m3 0,3 mg/m3 ee Value 10 mg/m3 1,25 mg/m3 10 mg/m3 1,25 mg/m3 1,25 mg/m3 Value	Form Inhalable dust. Respirable dust. Inhalable fraction. Respirable fraction. Form Inhalable fraction. Respirable fraction. Respirable fraction. Respirable fraction. Inhalable fraction. Respirable fraction. Form
Graphite (CAS 7782-42-5) Regulatory status: Indicative Germany. DFG MAK List (advisory in the Work Area (DFG), as update Components Aluminium Oxide (CAS 1344-28-1) Graphite (CAS 7782-42-5)	VME e limit (VL) y OELs). Commission for the Invested Type TWA TWA TWA in the Ambient Air at the Workplac Type AGW AGW No. 307/1986, as amended Type	Value 4 mg/m3 1,5 mg/m3 4 mg/m3 0,3 mg/m3 e Value 10 mg/m3 1,25 mg/m3 10 mg/m3 1,25 mg/m3 Value 5 mg/m3	Form Inhalable dust. Respirable dust. Inhalable fraction. Respirable fraction. Form Inhalable fraction. Respirable fraction. Respirable fraction. Inhalable fraction. Respirable fraction. Form Respirable fraction.

Hungary. OELs. Decree on protect Components	tion of workers exposed to che Type	emical agents (5/2020. (II.6)), Value	Annex 1&2, as amended Form
Aluminium Oxide (CAS 1344-28-1)	TWA	5 mg/m3	
		2 mg/m3	Respirable.
Graphite (CAS 7782-42-5)	TWA	5 mg/m3	Inhalable dust.
		2 mg/m3	Respirable dust.
lceland. OELs. Regulation 390/200 Components	9 on Pollution Limits and Mea Type	sures to Reduce Pollution at Value	the Workplace, as amended Form
Aluminium Oxide (CAS 1344-28-1)	TWA	10 mg/m3	
Graphite (CAS 7782-42-5)	TWA	5 mg/m3	Total dust.
		2,5 mg/m3	Respirable dust.
reland. OELVs, Schedules 1 & 2, 0 Components	Code of Practice for Chemical Type	Agents and Carcinogens Re Value	gulations Form
Aluminium Oxide (CAS 1344-28-1)	TWA	4 mg/m3	Respirable dust.
		10 mg/m3	Total inhalable dust.
Graphite (CAS 7782-42-5)	TWA	2 mg/m3	Respirable fraction.
Italy. OELs (Legislative Decree n.8 Components	31, 9 April 2008), as amended Type	Value	Form
Graphite (CAS 7782-42-5)	TWA	2 mg/m3	Respirable fraction.
Latvia. OELs. Occupational Expos 1), as amended Components	ure Limits of Chemical Substa	ances at Workplace (Reg. No Value	. 325/ 2007, L.V. 80, Annex
Aluminium Oxide (CAS	TWA	6 mg/m3	Decomposition aerosol.
1344-28-1)	1000	4 mg/m3	Decemposition deresel.
Graphite (CAS 7782-42-5)	TWA	2 mg/m3	Dust.
Lithuania. OELs. Occupational Ex V-824/A1-389), as amended	posure Limit Values for Chem	ical Substances (Hygiene No	orm HN 23:2011; Order No.
Components	Туре	Value	Form
Graphite (CAS 7782-42-5)	TWA	3 mg/m3	Dust.
Norway. Regulation No. 1358 on N Infection Groups for Biological Fa		Physical and Chemical Facto	ors in Work Environment and
Components	Туре	Value	Form
Aluminium Oxide (CAS 1344-28-1)	TLV	10 mg/m3	
Graphite (CAS 7782-42-5)	TLV	5 mg/m3	Total dust.
		2 mg/m3	Respirable dust.
Poland. Maximum permissible cor 1286/2018, Annex 1)	ncentrations and intensities of	harmful factors in the work	environment (Dz.U.Poz.
Components	Туре	Value	Form
Aluminium Oxide (CAS 1344-28-1)	TWA	2,5 mg/m3	Inhalable fraction.
		1,2 mg/m3	Respirable fraction.
Graphite (CAS 7782-42-5)	TWA	4 mg/m3	Inhalable fraction.
		1 mg/m3	Respirable fraction.
Portugal. VLEs. Norm on occupati Components	onal exposure to chemical ag Type	ents (NP 1796-2014) Value	Form
•			
Aluminium Oxide (CAS	TWA	1 mg/m3	Respirable fraction.
Aluminium Oxide (CAS 1344-28-1) Graphite (CAS 7782-42-5)	TWA TWA	1 mg/m3 2 mg/m3	Respirable fraction. Respirable fraction.

Components	Type	Value	Form
Aluminium Oxide (CAS 1344-28-1)	STEL	5 mg/m3	Aerosol.
1344-20-1)	TWA	2 mg/m3	Aerosol.
Graphite (CAS 7782-42-5)	TWA	2 mg/m3	Respirable fraction.
. ,	ssible exposure limits for chemical f	•	·
Annex 1, Table 1, as amended)	soloto exposuro illinto for offennour i	adicio in workpiaco an (_
Components	Туре	Value	Form
Aluminium Oxide (CAS 1344-28-1)	TWA	4 mg/m3	Inhalable fraction.
		0,1 mg/m3	Respirable fraction.
Graphite (CAS 7782-42-5)	TWA	2 mg/m3	Respirable fraction.
		2 mg/m3	Respirable fraction.
		10 mg/m3	Total
Slovenia. OELs. Occupational Ex due to Exp. to Chemicals at Work	posure Limits of Chemicals at Work	place (Reg. on Protection	n of Workers from Risks
Components	Туре	Value	Form
Aluminium Oxide (CAS 1344-28-1)	TWA	10 mg/m3	Inhalable fraction.
,		1,25 mg/m3	Respirable fraction.
Graphite (CAS 7782-42-5)	TWA	10 mg/m3	Inhalable fraction.
		1,25 mg/m3	Respirable fraction.
Spain. OELs. INSST, Límites de E (VLAs)	xposición Profesional Para Agentes	s Químicos, Table 1-Valc	res Límites Ambientales
Components	Туре	Value	Form
Aluminium Oxide (CAS 1344-28-1)	TWA	10 mg/m3	
Graphite (CAS 7782-42-5)	TWA	2 mg/m3	Respirable dust.
Sweden. OELs (Annex 1). Work E amended	invironment Authority (AV), Occupa	tional Exposure Limit Va	llues (AFS 2018:1), as
Components	Туре	Value	Form
Aluminium Oxide (CAS 1344-28-1)	TWA	5 mg/m3	Total dust.
,		2 mg/m3	Respirable dust.
Graphite (CAS 7782-42-5)	TWA	0,2 fibers/ml	
Switzerland, SUVA Grenzwerte a	m Arbeitsplatz: Aktuelle MAK-Werte		
	Туре	Value	Form
	Type		
Components Aluminium Oxide (CAS	STEL	24 mg/m3	Respirable dust and/c fume.
Components Aluminium Oxide (CAS		24 mg/m3 3 mg/m3	
Components Aluminium Oxide (CAS	STEL	Ŭ	fume. Respirable dust.
Components Aluminium Oxide (CAS 1344-28-1)	STEL	3 mg/m3	Respirable dust. Respirable dust and/o
Components Aluminium Oxide (CAS 1344-28-1) Graphite (CAS 7782-42-5) UK. OELs. Workplace Exposure I	STEL	3 mg/m3 3 mg/m3 3 mg/m3	fume. Respirable dust. Respirable dust and/o fume.
Components Aluminium Oxide (CAS 1344-28-1) Graphite (CAS 7782-42-5) UK. OELs. Workplace Exposure I Components	STEL TWA TWA Limits (WELs) (EH40/2005 (Fourth Ed	3 mg/m3 3 mg/m3 3 mg/m3 dition 2020)), Table 1	fume. Respirable dust. Respirable dust and/ofume. Respirable fraction.
Components Aluminium Oxide (CAS 1344-28-1) Graphite (CAS 7782-42-5)	STEL TWA TWA Limits (WELs) (EH40/2005 (Fourth Ed	3 mg/m3 3 mg/m3 3 mg/m3 dition 2020)), Table 1 Value	fume. Respirable dust. Respirable dust and/ofume. Respirable fraction. Form
Components Aluminium Oxide (CAS 1344-28-1) Graphite (CAS 7782-42-5) UK. OELs. Workplace Exposure L Components Aluminium Oxide (CAS	STEL TWA TWA Limits (WELs) (EH40/2005 (Fourth Ed	3 mg/m3 3 mg/m3 3 mg/m3 dition 2020)), Table 1 Value 4 mg/m3	fume. Respirable dust. Respirable dust and/ofume. Respirable fraction. Form Respirable dust.

urine

1344-28-1)

Hungary. BELs. Decree on protection of workers exposed to chemical agents (5/2020. (II.6)), Annex 3&4, as amended

Components	Value	Determinant	Specimen	Sampling Time	,
	0,06 mg/g	Aluminum	Creatinine in urine	*	

^{* -} For sampling details, please see the source document.

Switzerland, SUVA Grenzwerte am Arbeitsplatz: Aktuelle BAT-Werte

Components	Value	Determinant	Specimen	Sampling Time
Aluminium Oxide (CAS 1344-28-1)	50 μg/g	Aluminium	Creatinine in urine	*

^{* -} For sampling details, please see the source document.

Recommended monitoring procedures

Follow standard monitoring procedures.

Derived no effect levels

(DNELs)

Not available.

Predicted no effect 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. Provide eyewash station and safety shower.

Individual protection measures, such as personal protective equipment

Use personal protective equipment as required. Personal protection equipment should be chosen **General information**

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). Face shield is recommended.

Skin protection

Wear appropriate chemical resistant gloves. - Hand protection

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

In case of insufficient ventilation, wear suitable respiratory equipment. Respiratory protection Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Always observe good personal hygiene measures, such as washing after handling the material Hygiene measures

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

Physical state Solid. Solid, Paste. **Form**

Color Grey. Odor Slight.

Melting point/freezing point Boiling point or initial boiling

point and boiling range

608 °F (320 °C) estimated

Not available.

Flammability Not available.

Flash point 265,0 °F (129,4 °C) estimated

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

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

(n-octanol/water) (log value)

Vapor pressure Not available.

Density and/or relative density

1,17 g/cm3 estimated **Density**

Not available. Vapor density Particle characteristics Not available.

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

1.17 estimated Specific gravity

VOC 0 q/l

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.

Contact with incompatible materials. 10.4. Conditions to avoid

10.5. Incompatible materials Strong oxidizing agents.

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 No adverse effects due to inhalation are expected.

Causes skin irritation. May cause an allergic skin reaction. Skin contact

Eye contact Causes serious eye irritation.

May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of Ingestion

occupational exposure.

Symptoms Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction.

Dermatitis. Rash.

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

Acute toxicity Not known.

Components **Species Test Results**

Aluminium Oxide (CAS 1344-28-1)

Acute Oral

LD50 Rat > 5000 mg/kg

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

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

Skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicity 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. Carcinogenicity Reproductive toxicity 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. Specific target organ toxicity -

single exposure

Specific target organ toxicity -Due to partial or complete lack of data the classification is not possible.

repeated exposure

Material name: DEVCON® Wear Resistant Putty (WR-2) Resin 0106 Version #: 06 Revision date: 07-31-2023 Issue date: 05-29-2019

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

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

environment.

12.2. Persistence and

degradability

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

12.3. Bioaccumulative potential No data available. **Partition coefficient** Not available.

n-octanol/water (log Kow)

Not available. **Bioconcentration factor (BCF)** No data available. 12.4. Mobility in soil

12.5. Results of PBT and vPvB

assessment

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

(EC) No 1907/2006, Annex XIII.

12.6. Endocrine disrupting

properties

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 effects

No 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.

The Waste code should be assigned in discussion between the user, the producer and the waste FU waste code

disposal company.

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

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 Not regulated as dangerous goods.

14.2. UN proper shipping

name

Not regulated as dangerous goods.

14.3. Transport hazard class(es)

Class Not assigned.

Subsidiary risk

Hazard No. (ADR) Not assigned. Tunnel restriction code Not assigned.

14.4. Packing group 14.5. Environmental hazards No.

14.6. Special precautions Not assigned.

for user

RID

14.1. UN number Not regulated as dangerous goods. Not regulated as dangerous goods. 14.2. UN proper shipping

name

14.3. Transport hazard class(es)

Class Not assigned. Subsidiary risk -14.4. Packing group -14.5. Environmental hazards No.

14.6. Special precautions Not assigned.

for user

ADN

14.1. UN number Not regulated as dangerous goods.14.2. UN proper shipping Not regulated as dangerous goods.

name

14.3. Transport hazard class(es)

Class Not assigned.

Subsidiary risk 14.4. Packing group 14.5. Environmental hazards No.

14.6. Special precautions Not assigned.

for user

IATA

14.1. UN number Not regulated as dangerous goods.14.2. UN proper shipping Not regulated as dangerous goods.

name

14.3. Transport hazard class(es)

Class Not assigned.

Subsidiary risk 14.4. Packing group 14.5. Environmental hazards No.

14.6. Special precautions Not assigned.

for user

IMDG

14.1. UN numberNot regulated as dangerous goods. **14.2. UN proper shipping**Not regulated as dangerous goods.

name

14.3. Transport hazard class(es)

Class Not assigned.

Subsidiary risk 14.4. Packing group 14.5. Environmental hazards

Marine pollutant No.

EmS Not assigned.

14.6. Special precautions Not assigned.

for user

14.7. Maritime transport in bulk Not applicable.

according to IMO instruments

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

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Not listed.

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

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

Aluminium Oxide (CAS 1344-28-1)

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

UFI:

Austria: 5K20-10HE-R00M-P0KM Belgium: 5K20-10HE-R00M-P0KM Bulgaria: 5K20-10HE-R00M-P0KM Croatia: 5K20-10HE-R00M-P0KM Cyprus: 5K20-10HE-R00M-P0KM

Czech Republic: 5K20-10HE-R00M-P0KM Denmark: 5K20-10HE-R00M-P0KM Estonia: 5K20-10HE-R00M-P0KM EU: 5K20-10HE-R00M-P0KM Finland: 5K20-10HE-R00M-P0KM France: 5K20-10HE-R00M-P0KM Germany: 5K20-10HE-R00M-P0KM Greece: 5K20-10HE-R00M-P0KM Hungary: 5K20-10HE-R00M-P0KM Iceland: 5K20-10HE-R00M-P0KM Ireland: 5K20-10HE-R00M-P0KM Italy: 5K20-10HE-R00M-P0KM Latvia: 5K20-10HE-R00M-P0KM Lithuania: 5K20-10HE-R00M-P0KM Luxembourg: 5K20-10HE-R00M-P0KM Malta: 5K20-10HE-R00M-P0KM Netherlands: 5K20-10HE-R00M-P0KM Norway: 5K20-10HE-R00M-P0KM Poland: 5K20-10HE-R00M-P0KM Portugal: 5K20-10HE-R00M-P0KM Romania: 5K20-10HE-R00M-P0KM Slovakia: 5K20-10HE-R00M-P0KM Slovenia: 5K20-10HE-R00M-P0KM Spain: 5K20-10HE-R00M-P0KM

Authorizations

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

Sweden: 5K20-10HE-R00M-P0KM

Not listed.

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

Not listed.

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 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

Aluminium Oxide (CAS 1344-28-1)

Faserstäube, anorganische (außer Asbest), Künstlich hergestellte anorganische einkristalline Fasern (Whisker) aus Aluminoxid

France regulations

France INRS Table of Occupational Diseases

Epoxy Resin: reaction product of bisphenol A and epichlorohydrin (refer to epichlorohydrin)

(CAS 25068-38-6)

Maladies professionnelles provoquées par les résines

époxydiques et leurs constituants 51

Product registration number

Austria UFI: 5K20-10HE-R00M-P0KM **Belgium** UFI: 5K20-10HE-R00M-P0KM **Czech Republic** UFI: 5K20-10HE-R00M-P0KM **Denmark** UFI: 5K20-10HE-R00M-P0KM **European Union** UFI: 5K20-10HE-R00M-P0KM **Finland** UFI: 5K20-10HE-R00M-P0KM **France** UFI: 5K20-10HE-R00M-P0KM UFI: 5K20-10HE-R00M-P0KM Germany UFI: 5K20-10HE-R00M-P0KM Greece UFI: 5K20-10HE-R00M-P0KM Hungary

UFI: 5K20-10HE-R00M-P0KM Italy **Netherlands** UFI: 5K20-10HE-R00M-P0KM UFI: 5K20-10HE-R00M-P0KM Norway UFI: 5K20-10HE-R00M-P0KM **Poland** UFI: 5K20-10HE-R00M-P0KM **Portugal** Slovakia UFI: 5K20-10HE-R00M-P0KM Slovenia UFI: 5K20-10HE-R00M-P0KM UFI: 5K20-10HE-R00M-P0KM Spain Sweden UFI: 5K20-10HE-R00M-P0KM UFI: 5K20-10HE-R00M-P0KM 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.

Not available.

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

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

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

H315 Causes skin irritation.

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

Revision information Training information Physical & Chemical Properties: Multiple Properties

Training informationFollow training instructions when handling this material. **Disclaimer**ITW Performance Polymers cannot anticipate all conditi

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.

Material name: DEVCON® Wear Resistant Putty (WR-2) Resin

0106 Version #: 06 Revision date: 07-31-2023 Issue date: 05-29-2019