SAFETY DATA SHEET

Version #: 08

Issue date: 05-29-2019 Revision date: 07-26-2023 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® Aluminum Putty (F) Resin

Registration number

Synonyms None. SKU# 0102

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

Identified uses Not available.

Uses advised against None 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

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.)

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1.4. Emergency telephone number

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.)

Greece Poison Information

(0030) 2107793777 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.) Centre

Emergency Phone Number

Hungary National +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

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)

Norway Norwegian Poison

22 59 13 00 (Available 24 hours a day. SDS/Product information may not be

Information Center

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 H315 - Causes skin irritation. Category 2 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

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Material name: DEVCON® Aluminum Putty (F) Resin

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

UFI:

Austria: G110-X039-700P-RV3F Belgium: G110-X039-700P-RV3F Bulgaria: G110-X039-700P-RV3F Croatia: G110-X039-700P-RV3F Cyprus: G110-X039-700P-RV3F

Czech Republic: G110-X039-700P-RV3F Denmark: G110-X039-700P-RV3F Estonia: G110-X039-700P-RV3F EU: G110-X039-700P-RV3F Finland: G110-X039-700P-RV3F France: G110-X039-700P-RV3F Germany: G110-X039-700P-RV3F Greece: G110-X039-700P-RV3F Hungary: G110-X039-700P-RV3F Iceland: G110-X039-700P-RV3F Ireland: G110-X039-700P-RV3F Italy: G110-X039-700P-RV3F Latvia: G110-X039-700P-RV3F Lithuania: G110-X039-700P-RV3F

Luxembourg: G110-X039-700P-RV3F Malta: G110-X039-700P-RV3F Netherlands: G110-X039-700P-RV3F Norway: G110-X039-700P-RV3F Poland: G110-X039-700P-RV3F Portugal: G110-X039-700P-RV3F Romania: G110-X039-700P-RV3F

Slovakia: G110-X039-700P-RV3F Slovenia: G110-X039-700P-RV3F Spain: G110-X039-700P-RV3F Sweden: G110-X039-700P-RV3F

Contains: Calcium Carbonate, Epoxy Resin: reaction product of bisphenol A and epichlorohydrin (refer to

Hazard pictograms



Signal word Warning

Hazard statements

Causes skin irritation. H315

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

Precautionary statements

Prevention

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

Wash thoroughly after handling. P264

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

P280 Wear eye protection/face protection.

Wear protective gloves. P280

Response

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

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

and easy to do. Continue rinsing.

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

Not available. Storage

Disposal

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

Supplemental label information None.

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
Aluminum Flake	40 - 70	7429-90-5 231-072-3	-	013-002-00-1	
Classification		1;H228, Pyr. Sol. 1;Hquatic Chronic 1;H41	H250, Water-React. 2;H261, 0	Aquatic Acute	
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	2;H315, Eye Irrit. 2;H3	319, Skin Sens. 1;H317		
Calcium Carbonate	10 - 30	1317-65-3 215-279-6	-	-	
Classification	: -				
Other components below reportable	0,1 - 1				·

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.

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

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.

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

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 and effects, both acute and delayed 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.

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.

Material name: DEVCON® Aluminum Putty (F) Resin

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material. personnel

Keep unnecessary personnel away. Ensure adequate ventilation. Local authorities should be For emergency responders

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 Large Spills: Stop the flow of material, if this is without risk. Following product recovery, flush area with water. containment and cleaning up

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 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 handling

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 0	Ordinance (GwV)	, BGBI. II, no.	184/2001, as amended
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Components	Туре	Value	Form
Aluminum Flake (CAS 7429-90-5)	MAK	5 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
	STEL	20 mg/m3	Inhalable fraction.
		10 mg/m3	Respirable fraction.
Calcium Carbonate (CAS 1317-65-3)	MAK	5 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
	STEL	20 mg/m3	Inhalable fraction.
		10 mg/m3	Respirable fraction.

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
Aluminum Flake (CAS 7429-90-5)	TWA	1 mg/m3	Respirable fraction.
Calcium Carbonate (CAS 1317-65-3)	TWA	10 mg/m3	

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

	Value	Form
TWA	2 mg/m3	
	10 mg/m3	Inhalable fraction.
	1,5 mg/m3	Respirable fraction.
TWA	1 fibers/cm3	Respirable fraction.
	10 mg/m3	Inhalable fraction.
	10 mg/m3	
		TWA 10 mg/m3 1,5 mg/m3 1 fibers/cm3

Material name: DEVCON® Aluminum Putty (F) Resin

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 Type Value **Form** Aluminum Flake (CAS MAC 4 mg/m3 Respirable dust. 7429-90-5) 10 mg/m3 Total dust. Calcium Carbonate (CAS MAC 4 mg/m3 Respirable dust. 1317-65-3) 10 mg/m3 Total 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 Value Form TWA Aluminum Flake (CAS Dust. 10 mg/m3 7429-90-5) Calcium Carbonate (CAS **TWA** 10 mg/m3 Dust. 1317-65-3) Denmark. Work Environment Authority. Exposure Limits for Substances & Materials, Annex 2 Components Value Form Type TLV Aluminum Flake (CAS 5 mg/m3 Fume. 7429-90-5) 5 mg/m3 Dust and fume. 2 mg/m3 Respirable dust and/or

			fume.
Calcium Carbonate (CAS 317-65-3)	TLV	5 mg/m3	Respirable dust.
.017 00 0)		10 mg/m3	Dust.
		0,5 mg/m3	Respirable quartz fraction.
Estonia. OELs. Occupati Components	ional Exposure Limits of Hazardous Subs Type	tances (Regulation No. 105 Value	/2001, Annex), as amende Form
Aluminum Flake (CAS 7429-90-5)	TWA	4 mg/m3	Fine dust, respiratory fraction
		10 mg/m3	Total dust.
Calcium Carbonate (CAS 1317-65-3)	TWA	5 mg/m3	Fine dust.
		10 mg/m3	
Finland. HTP-arvot, App	3., Binding Limit Values, Social Affairs ar	nd Ministry of Health	
, 1.1.	•	-	Form
Components	Type	Value	1 01111
Components Aluminum Flake (CAS 7429-90-5)	TWA	1,5 mg/m3	Welding fume.
Aluminum Flake (CAS			
Aluminum Flake (CAS 7429-90-5) Calcium Carbonate (CAS 1317-65-3) France. Threshold Limit	TWA TWA Values (VLEP) for Occupational Exposure	1,5 mg/m3 10 mg/m3 e to Chemicals in France, If	Welding fume. Dust. NRS ED 984
Aluminum Flake (CAS 7429-90-5) Calcium Carbonate (CAS 1317-65-3) France. Threshold Limit Components	TWA TWA Values (VLEP) for Occupational Exposure Type	1,5 mg/m3 10 mg/m3 e to Chemicals in France, If Value	Welding fume. Dust. NRS ED 984 Form
Aluminum Flake (CAS 7429-90-5) Calcium Carbonate (CAS 1317-65-3) France. Threshold Limit Components	TWA TWA Values (VLEP) for Occupational Exposure	1,5 mg/m3 10 mg/m3 e to Chemicals in France, If	Welding fume. Dust. NRS ED 984
Aluminum Flake (CAS 7429-90-5) Calcium Carbonate (CAS 1317-65-3) France. Threshold Limit Components	TWA TWA Values (VLEP) for Occupational Exposure Type	1,5 mg/m3 10 mg/m3 e to Chemicals in France, If Value 5 mg/m3	Welding fume. Dust. NRS ED 984 Form Welding fume.
Aluminum Flake (CAS 7429-90-5) Calcium Carbonate (CAS 1317-65-3) France. Threshold Limit Components Aluminum Flake (CAS 7429-90-5) Regulatory status:	TWA TWA Values (VLEP) for Occupational Exposure Type VME Indicative limit (VL)	1,5 mg/m3 10 mg/m3 e to Chemicals in France, If Value	Welding fume. Dust. NRS ED 984 Form
Aluminum Flake (CAS 7429-90-5) Calcium Carbonate (CAS 1317-65-3) France. Threshold Limit Components Aluminum Flake (CAS 7429-90-5)	TWA TWA Values (VLEP) for Occupational Exposure Type VME	1,5 mg/m3 10 mg/m3 e to Chemicals in France, If Value 5 mg/m3 5 mg/m3	Welding fume. Dust. NRS ED 984 Form Welding fume.
Aluminum Flake (CAS 7429-90-5) Calcium Carbonate (CAS 1317-65-3) France. Threshold Limit Components Aluminum Flake (CAS 7429-90-5) Regulatory status: Regulatory status:	TWA TWA Values (VLEP) for Occupational Exposure Type VME Indicative limit (VL) Indicative limit (VL)	1,5 mg/m3 10 mg/m3 e to Chemicals in France, If Value 5 mg/m3	Welding fume. Dust. NRS ED 984 Form Welding fume.
Aluminum Flake (CAS 7429-90-5) Calcium Carbonate (CAS 1317-65-3) France. Threshold Limit Components Aluminum Flake (CAS 7429-90-5) Regulatory status: Regulatory status:	TWA TWA Values (VLEP) for Occupational Exposure Type VME Indicative limit (VL) Indicative limit (VL)	1,5 mg/m3 10 mg/m3 e to Chemicals in France, If Value 5 mg/m3 5 mg/m3 10 mg/m3	Welding fume. Dust. NRS ED 984 Form Welding fume. Dust.
Aluminum Flake (CAS 7429-90-5) Calcium Carbonate (CAS 1317-65-3) France. Threshold Limit Components Aluminum Flake (CAS 7429-90-5) Regulatory status: Regulatory status: Calcium Carbonate (CAS 1317-65-3)	TWA TWA Values (VLEP) for Occupational Exposure Type VME Indicative limit (VL) Indicative limit (VL) VME	1,5 mg/m3 10 mg/m3 e to Chemicals in France, If Value 5 mg/m3 5 mg/m3	Welding fume. Dust. NRS ED 984 Form Welding fume.
Aluminum Flake (CAS 7429-90-5) Calcium Carbonate (CAS 1317-65-3) France. Threshold Limit Components Aluminum Flake (CAS 7429-90-5) Regulatory status: Regulatory status:	TWA TWA Values (VLEP) for Occupational Exposure Type VME Indicative limit (VL) Indicative limit (VL)	1,5 mg/m3 10 mg/m3 e to Chemicals in France, If Value 5 mg/m3 5 mg/m3 10 mg/m3 4 mg/m3	Welding fume. Dust. NRS ED 984 Form Welding fume. Dust. Total dust.
Aluminum Flake (CAS 7429-90-5) Calcium Carbonate (CAS 1317-65-3) France. Threshold Limit Components Aluminum Flake (CAS 7429-90-5) Regulatory status: Regulatory status: Calcium Carbonate (CAS 1317-65-3)	TWA TWA Values (VLEP) for Occupational Exposure Type VME Indicative limit (VL) Indicative limit (VL) VME	1,5 mg/m3 10 mg/m3 e to Chemicals in France, If Value 5 mg/m3 5 mg/m3 10 mg/m3	Welding fume. Dust. NRS ED 984 Form Welding fume. Dust.

in the Work Area (DFG), as upda Components	Туре	Value	Form
Aluminum Flake (CAS 7429-90-5)	TWA	4 mg/m3	Inhalable dust.
,		1,5 mg/m3	Respirable dust.
Calcium Carbonate (CAS 1317-65-3)	TWA	4 mg/m3	Inhalable dust.
Germany. TRGS 900, Limit Value Components	s in the Ambient Air at the Wor Type	rkplace Value	Form
Aluminum Flake (CAS 7429-90-5)	AGW	10 mg/m3	Inhalable fraction.
		1,25 mg/m3	Respirable fraction.
Calcium Carbonate (CAS 1317-65-3)	AGW	10 mg/m3	Inhalable fraction.
		1,25 mg/m3	Respirable fraction.
Greece. OELs, Presidential Decr Components	ee No. 307/1986, as amended Type	Value	Form
Aluminum Flake (CAS 7429-90-5)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Inhalable
		10 mg/m3	Pyrophoric powder.
		10 mg/m3	Welding fume.
	TWA	5 mg/m3	Respirable.
	TWA	5 mg/m3 10 mg/m3	Respirable.
1317-65-3) Hungary. OELs. Decree on prote		10 mg/m3	Inhalable
1317-65-3) Hungary. OELs. Decree on prote Components Aluminum Flake (CAS	ction of workers exposed to ch	10 mg/m3 nemical agents (5/2020. (II.6)),	Inhalable Annex 1&2, as amended
Hungary. OELs. Decree on prote Components Aluminum Flake (CAS 7429-90-5) Calcium Carbonate (CAS	ction of workers exposed to ch Type	10 mg/m3 nemical agents (5/2020. (II.6)), Value	Inhalable Annex 1&2, as amended Form
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Hungary. OELs. Decree on prote Components Aluminum Flake (CAS 7429-90-5) Calcium Carbonate (CAS 1317-65-3) Iceland. OELs. Regulation 390/20 Components Aluminum Flake (CAS	ction of workers exposed to ch Type TWA TWA D09 on Pollution Limits and Mea	10 mg/m3 nemical agents (5/2020. (II.6)), Value 1 mg/m3 10 mg/m3 asures to Reduce Pollution at	Inhalable Annex 1&2, as amended Form Respirable. the Workplace, as amer
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Calcium Carbonate (CAS 1317-65-3) Hungary. OELs. Decree on prote Components Aluminum Flake (CAS 7429-90-5) Calcium Carbonate (CAS 1317-65-3) Iceland. OELs. Regulation 390/20 Components Aluminum Flake (CAS 7429-90-5) Ireland. OELVs, Schedules 1 & 2 Components Aluminum Flake (CAS 7429-90-5) Calcium Carbonate (CAS 1317-65-3) Italy. OELs (Legislative Decree in Components	TWA TWA TWA TOP STEL TWA	10 mg/m3 nemical agents (5/2020. (II.6)), Value 1 mg/m3 10 mg/m3 asures to Reduce Pollution at Value 10 mg/m3 5 mg/m3 I Agents and Carcinogens Reg Value 1 mg/m3 4 mg/m3	Inhalable Annex 1&2, as amended Form Respirable. the Workplace, as amer Form Dust. Dust. gulations Form Respirable fraction. Respirable dust.

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

Type

TWA

Value

2 mg/m3

1), as amended Components

7429-90-5)

Aluminum Flake (CAS

Components	Туре	Value	Form
Aluminum Flake (CAS (429-90-5)	TWA	5 mg/m3	Inhalable fraction.
		2 mg/m3	Respirable fraction.
Calcium Carbonate (CAS 317-65-3)	TWA	5 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
Norway. Regulation No. 1358 on		Physical and Chemical Facto	rs in Work Environment
nfection Groups for Biological Fa Components	actors, as amended Type	Value	Form
Aluminum Flake (CAS	TLV	5 mg/m3	Welding fume.
7429-90-5)	ILV	3 mg/m3	welaling fame.
		5 mg/m3	Pyrophoric powder.
Poland. Maximum permissible co	ncentrations and intensities o	f harmful factors in the work e	environment (Dz.U.Poz.
1286/2018, Annex 1) Components	Туре	Value	Form
<u> </u>			
Aluminum Flake (CAS 7429-90-5)	TWA	2,5 mg/m3	Inhalable fraction.
<i>,</i>		1,2 mg/m3	Respirable fraction.
Portugal. VLEs. Norm on occupa	tional exposure to chemical ad	gents (NP 1796-2014)	
Components	Туре	Value	Form
Aluminum Flake (CAS 7429-90-5)	TWA	1 mg/m3	Respirable fraction.
Romania. OELs. Limit Values of 0	Chemical Agents at Workplace	(Regulation 1.218/2006, M.O	345, Annex 1, 3&4, as
amended) Components	Typo	Value	Form
	Туре		
Aluminum Flake (CAS 7429-90-5)	STEL	3 mg/m3	Fume.
		10 mg/m3	Dust.
	TWA	3 mg/m3	Dust.
		1 mg/m3	Fume.
Calcium Carbonate (CAS	TWA	10 mg/m3	Inhalable fraction.
1317-65-3)			
Slovakia. OELs. Maximum permis Annex 1, Table 1, as amended)	sible exposure limits for chen	nical factors in workplace air (Regulation No 355/2006
Components	Туре	Value	Form
Aluminum Flake (CAS	TWA	4 mg/m3	Inhalable fraction.
7429-90-5)		•	
0.1.		1,5 mg/m3	Respirable fraction.
Calcium Carbonate (CAS 1317-65-3)	TWA	10 mg/m3	
Slovenia. OELs. Occupational Ex	posure Limits of Chemicals at	Workplace (Reg. on Protection	n of Workers from Risks
due to Exp. to Chemicals at Work	, Annex I), as amended		
Components	Туре	Value	Form
Aluminum Flake (CAS 7429-90-5)	TWA	10 mg/m3	Inhalable fraction.
		1,25 mg/m3	Respirable fraction.
Calcium Carbonate (CAS I317-65-3)	TWA	10 mg/m3	Inhalable fraction.
.0.1 00 01		1,25 mg/m3	Respirable fraction.
	xnosición Profesional Para Δα	_	·
	Apocioion i Totoolonai i ala Ag		
Spain. OELs. INSST, Límites de E (VLAs) Components	Type	Value	Form

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

Components	Туре	Value	Form
Calcium Carbonate (CAS 1317-65-3)	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
Sweden, OFI's (Annex 1), Work F	nvironment Authority (AV). O	ccupational Exposure Limit Val	ues (AFS 2018:1), as

Value

Form

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

•	••		
Aluminum Flake (CAS 7429-90-5)	TWA	5 mg/m3	Total dust.
1 120 00 0)		2 mg/m3	Respirable dust.

Switzerland. SUVA Grenzwerte am Arbeitsplatz: Aktuelle MAK-Werte

Components	Туре	Value	Form
Aluminum Flake (CAS 7429-90-5)	TWA	3 mg/m3	Respirable fraction.
Calcium Carbonate (CAS 1317-65-3)	TWA	3 mg/m3	Respirable dust.
,		10 mg/m3	Inhalable dust.

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

Type

Components	Type	Value	Form
Aluminum Flake (CAS 7429-90-5)	TWA	4 mg/m3	Respirable dust.
		10 mg/m3	Inhalable dust.
Calcium Carbonate (CAS 1317-65-3)	TWA	4 mg/m3	Respirable dust.
		4 mg/m3	Respirable.
		10 mg/m3	Inhalable dust.
		10 mg/m3	Inhalable

Biological limit values

Components

Croatia. BELs (BGV). Regulation on Protection of Workers against Exposure to Dangerous Chemicals at Work, OELs and BELs. Appea IV (NN 94/2018) as amonded

Value Determinant Specimen Sampling Time		omponents	Determin	ant Specimen	Sampling Time
ke (CAS 200 mg/l Aluminum Urine *	200 mg/l	uminum Flake (CAS -29-90-5)	Aluminum	Urine	*

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

Germany, TRGS 903, BAT List (Biological Limit Values)

Components	Value	Determinant	Specimen	Sampling Time
Aluminum Flake (CAS 7429-90-5)	50 μg/g	Aluminium	Creatinine in urine	*

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

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

•			•		
Aluminum Flake (CAS 7429-90-5)	0,25 µmol/mmol	Aluminum	Creatinine in urine	*	
	0,06 mg/g	Aluminum	Creatinine in urine	*	

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

Slovakia. BLVs (Biological Limit Value). Regulation no. 355/2006 concerning protection of workers exposed to chemical agents, Annex 2

Components	Value	Determinant	Specimen	Sampling Time
Aluminum Flake (CAS 7429-90-5)	60 µg/g	Aluminum	Creatinine in urine	*

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

Switzerland. SUVA Grenzwerte am Arbeitsplatz: Aktuelle BAT-Werte

Sampling Time Components Value Determinant **Specimen** Aluminum Flake (CAS Aluminium Creatinine in 50 µg/g 7429-90-5) 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

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). Face shield is recommended.

Skin protection

- Hand protection Wear appropriate chemical resistant gloves.

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

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

Hygiene measures 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** Paste. Color Grey. Slight. Odor

Not available. Melting point/freezing point

Boiling point or initial boiling

point and boiling range

608 °F (320 °C) estimated

Not available. **Flammability**

>399,9 °F (>204,4 °C) Flash point

265,0 °F (129,4 °C) estimated

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

Solubility

Not available. Solubility (water) Partition coefficient Not available

(n-octanol/water) (log value)

Not available. Vapor pressure

Material name: DEVCON® Aluminum Putty (F) Resin

Density and/or relative density

1,93 g/cm3 estimated Density

Vapor density Not available. **Particle characteristics** Not available.

9.2. Other information

9.2.1. Information with regard

No relevant additional information available.

to physical hazard classes

9.2.2. Other safety characteristics Specific gravity 1,93 estimated

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.

10.4. Conditions to avoid Contact with incompatible materials.

10.5. Incompatible materials Strong oxidizing agents.

No hazardous decomposition products are known. 10.6. Hazardous

decomposition products

SECTION 11: Toxicological information

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

Information on likely routes of exposure

No adverse effects due to inhalation are expected. Inhalation

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

Eye contact Causes serious eye irritation.

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

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.

Causes skin irritation. Skin corrosion/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.

May cause an allergic skin reaction. Skin sensitization

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

single exposure

Specific target organ toxicity -

repeated exposure

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

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

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

Material name: DEVCON® Aluminum Putty (F) Resin

SECTION 12: Ecological information

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

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 n-octanol/water (log Kow)

12.4. Mobility in soil

Not available

Bioconcentration factor (BCF)

Not available. No data available.

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

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

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

Disposal instructions).

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

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

disposal.

EU waste code The 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 Not regulated as dangerous goods. Not regulated as dangerous goods.

14.2. UN proper shipping

14.3. Transport hazard class(es)

Class Not assigned.

Subsidiary risk

Not assigned. Hazard No. (ADR) **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.

14.2. UN proper shipping

name

Not regulated as dangerous goods.

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

name

Not regulated as dangerous goods.

Material name: DEVCON® Aluminum Putty (F) Resin

SDS FII

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 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

Marine pollutant No.

EmS Not assigned.

14.6. Special precautions for user

14.7. Maritime transport in bulk Not applicable.

Not assigned.

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 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

Aluminum Flake (CAS 7429-90-5) Calcium Carbonate (CAS 1317-65-3)

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

Material name: DEVCON® Aluminum Putty (F) Resin

UFI:

Austria: G110-X039-700P-RV3F Belgium: G110-X039-700P-RV3F Bulgaria: G110-X039-700P-RV3F Croatia: G110-X039-700P-RV3F Cyprus: G110-X039-700P-RV3F

Czech Republic: G110-X039-700P-RV3F Denmark: G110-X039-700P-RV3F Estonia: G110-X039-700P-RV3F EU: G110-X039-700P-RV3F Finland: G110-X039-700P-RV3F France: G110-X039-700P-RV3F Germany: G110-X039-700P-RV3F Greece: G110-X039-700P-RV3F Hungary: G110-X039-700P-RV3F Iceland: G110-X039-700P-RV3F Ireland: G110-X039-700P-RV3F Italy: G110-X039-700P-RV3F Latvia: G110-X039-700P-RV3F Lithuania: G110-X039-700P-RV3F Luxembourg: G110-X039-700P-RV3F Malta: G110-X039-700P-RV3F Netherlands: G110-X039-700P-RV3F Norway: G110-X039-700P-RV3F Poland: G110-X039-700P-RV3F Portugal: G110-X039-700P-RV3F Romania: G110-X039-700P-RV3F Slovakia: G110-X039-700P-RV3F Slovenia: G110-X039-700P-RV3F

Slovenia: G110-X039-700P-RV3F Spain: G110-X039-700P-RV3F Sweden: G110-X039-700P-RV3F

Authorizations

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

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

Aluminum Flake (CAS 7429-90-5)

40

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

Aluminum Flake (CAS 7429-90-5)

Anorganische Faserstäube, soweit nicht erwähnt (ausgenommen

Gipsfasernund Wollastonitfasern)

Calcium Carbonate (CAS 1317-65-3)

Anorganische Faserstäube, soweit nicht erwähnt (ausgenommen

Maladies professionnelles provoquées par les résines

Gipsfasernund Wollastonitfasern)

France regulations

France INRS Table of Occupational Diseases

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

époxydiques et leurs constituants 51

(CAS 25068-38-6)

Product registration number

Austria UFI: G110-X039-700P-RV3F UFI: G110-X039-700P-RV3F Belgium Czech Republic UFI: G110-X039-700P-RV3F Denmark UFI: G110-X039-700P-RV3F **European Union** UFI: G110-X039-700P-RV3F **Finland** UFI: G110-X039-700P-RV3F **France** UFI: G110-X039-700P-RV3F Germany UFI: G110-X039-700P-RV3F Greece UFI: G110-X039-700P-RV3F

Material name: DEVCON® Aluminum Putty (F) Resin

UFI: G110-X039-700P-RV3F Hungary UFI: G110-X039-700P-RV3F Italy **Netherlands** UFI: G110-X039-700P-RV3F UFI: G110-X039-700P-RV3F Norway **Poland** UFI: G110-X039-700P-RV3F **Portugal** UFI: G110-X039-700P-RV3F Slovakia UFI: G110-X039-700P-RV3F Slovenia UFI: G110-X039-700P-RV3F **Spain** UFI: G110-X039-700P-RV3F Sweden UFI: G110-X039-700P-RV3F UFI: G110-X039-700P-RV3F 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

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

H228 Flammable solid.

Not available.

H250 Catches fire spontaneously if exposed to air. H261 In contact with water releases flammable gas.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Revision information

None.

Training information

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.

Material name: DEVCON® Aluminum Putty (F) Resin