SAFETY DATA SHEET

Version #: 07 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 Liquid (F-2) Resin
Registration number	-
Synonyms	None.
SKU#	0103
1.2. Relevant identified uses of t	he substance or mixture and uses advised against
Identified uses	Not available.
Uses advised against	None known.
1.3. Details of the supplier of the	e 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 numb	ber de la constant de
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.)
Cyprus Poison Center Czech Republic National Poisons Information Center Denmark National Poisons Control Center Estonia National Poisons Information Center Finland National Poison	 1401 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.) +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.) +45 82 12 12 12 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.) 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.) (09) 471 977 (direct) or (09) 4711 (exchange) (Available 24 hours a day.

1.4	.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 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	113	
	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 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

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

Austria: VVF0-E076-J00C-8TWU Belgium: VVF0-E076-J00C-8TWU Bulgaria: VVF0-E076-J00C-8TWU Croatia: VVF0-E076-J00C-8TWU Cyprus: VVF0-E076-J00C-8TWU Czech Republic: VVF0-E076-J00C-8TWU Denmark: VVF0-E076-J00C-8TWU Estonia: VVF0-E076-J00C-8TWU EU: VVF0-E076-J00C-8TWU Finland: VVF0-E076-J00C-8TWU France: VVF0-E076-J00C-8TWU Germany: VVF0-E076-J00C-8TWU Greece: VVF0-E076-J00C-8TWU Hungary: VVF0-E076-J00C-8TWU Iceland: VVF0-E076-J00C-8TWU Ireland: VVF0-E076-J00C-8TWU Italy: VVF0-E076-J00C-8TWU Latvia: VVF0-E076-J00C-8TWU Lithuania: VVF0-E076-J00C-8TWU Luxembourg: VVF0-E076-J00C-8TWU Malta: VVF0-E076-J00C-8TWU Netherlands: VVF0-E076-J00C-8TWU Norway: VVF0-E076-J00C-8TWU Poland: VVF0-E076-J00C-8TWU Portugal: VVF0-E076-J00C-8TWU Romania: VVF0-E076-J00C-8TWU Slovakia: VVF0-E076-J00C-8TWU Slovenia: VVF0-E076-J00C-8TWU Spain: VVF0-E076-J00C-8TWU Sweden: VVF0-E076-J00C-8TWU

Contains:

Hazard pictograms

Alkyl Glycidyl Ether, Aluminum Flake, Calcium Carbonate, Epoxy Resin: reaction product of bisphenol A and epichlorohydrin (refer to epichlorohydrin)



Signal word

Hazard statements

H315 H317 H319 Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.

Precautionary statements

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 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.

3.2. Mixtures					
General information					
Chemical name	%		. REACH Registration No	o. Index No.	Notes
Aluminum Flake	30 - 60	0 7429-90-5	-	013-002-00-1	Notes
Classi		231-072-3 ol. 1;H228, Pyr. Sol. 1 Aquatic Chronic 1;H4	;H250, Water-React. 2;H26	1, Aquatic Acute	
Enouge Desing reaction produc		•		<u></u>	
Epoxy Resin: reaction product bisphenol A and epichlorohyd (refer to epichlorohydrin)	drin	-	01-2119456619-26-0000	J –	
			1319, Skin Sens. 1;H317		
Calcium Carbonate	10 - 30	0 1317-65-3 215-279-6	-	-	
Classi	ification: -				
Alkyl Glycidyl Ether	1 - 5	68609-97-2 271-846-8	-	603-103-00-4	
Classi	ification: Skin Irrit	. 2;H315, Skin Sens.	1;H317		
2-butoxyethanol; ethylenegly monobutyl ether; butyl celloso		111-76-2 203-905-0	-	603-014-00-0	#
Classi	mg/kg b		0 mg/kg bw), Acute Tox. 3;F 2, Acute Tox. 4;H332;(ATE:		
Other components below rep levels	ortable 1 - <3	}			
PBT: persistent, bioaccumula #: This substance has been a All concentrations are in perc	assigned Union wo ent by weight unle	orkplace exposure lim	. Gas concentrations are in	percent by volume.	
Composition comments SECTION 4: First aid mea					
					1 ² 1
General information			ware of the material(s) involvited clothing before reuse.	/ed, and take preca	utions to
4.1. Description of first aid mea					
Inhalation		• •	symptoms develop or persis		
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.				
	present and eas	sh eyes with plenty of sy to do. Continue rin:	water for at least 15 minute sing. Get medical attention i	s. Remove contact f irritation develops	tions. Wash lenses, if
Ingestion	present and eas	sh eyes with plenty of sy to do. Continue rin Set medical attention i	sing. Get medical attention i	s. Remove contact f irritation develops	tions. Wash lenses, if
4.2. Most important symptoms and effects, both acute and	present and ear Rinse mouth. G Severe eye irrit	sy to do. Continue rin Get medical attention i ation. Symptoms may	sing. Get medical attention i	f irritation develops dness, swelling, and	tions. Wash lenses, if and persists. d blurred
4.2. Most important symptoms and effects, both acute and delayed4.3. Indication of any immediate medical attention	present and ea Rinse mouth. G Severe eye irrit vision. Skin irrit Rash.	sy to do. Continue rin Set medical attention i ation. Symptoms may ation. May cause redr I supportive measures	sing. Get medical attention i symptoms occur. include stinging, tearing, re	f irritation develops dness, swelling, and n allergic skin reacti	tions. Wash lenses, if and persists. d blurred on. Dermatitis
 4.2. Most important symptoms and effects, both acute and delayed 4.3. Indication of any mmediate medical attention and special treatment needed 	present and eas Rinse mouth. G Severe eye irrit vision. Skin irrit Rash. Provide genera Symptoms may	sy to do. Continue rin Set medical attention i ation. Symptoms may ation. May cause redr I supportive measures	sing. Get medical attention i symptoms occur. include stinging, tearing, re ness and pain. May cause a	f irritation develops dness, swelling, and n allergic skin reacti	tions. Wash lenses, if and persists. d blurred on. Dermatitis
4.2. Most important symptoms and effects, both acute and delayed 4.3. Indication of any immediate medical attention and special treatment needed SECTION 5: Firefighting	present and eas Rinse mouth. G Severe eye irrit vision. Skin irrit Rash. Provide genera Symptoms may	sy to do. Continue rin Set medical attention i ation. Symptoms may ation. May cause redr I supportive measures	sing. Get medical attention i symptoms occur. include stinging, tearing, re ness and pain. May cause a s and treat symptomatically.	f irritation develops dness, swelling, and n allergic skin reacti	tions. Wash lenses, if and persists. d blurred on. Dermatitis
 4.2. Most important symptoms and effects, both acute and delayed 4.3. Indication of any immediate medical attention and special treatment needed SECTION 5: Firefighting I General fire hazards 5.1. Extinguishing media Suitable extinguishing 	present and eau Rinse mouth. G Severe eye irrit vision. Skin irrit Rash. Provide genera Symptoms may measures No unusual fire	sy to do. Continue rin Set medical attention in ation. Symptoms may ation. May cause redr I supportive measures be delayed. or explosion hazards	sing. Get medical attention i symptoms occur. include stinging, tearing, re ness and pain. May cause a s and treat symptomatically.	f irritation develops dness, swelling, and n allergic skin reacti	tions. Wash lenses, if and persists. d blurred on. Dermatitis
4.2. Most important symptoms and effects, both acute and delayed 4.3. Indication of any immediate medical attention and special treatment needed SECTION 5: Firefighting r General fire hazards 5.1. Extinguishing media	present and ease Rinse mouth. G Severe eye irrit vision. Skin irrit Rash. Provide genera Symptoms may measures No unusual fire Water fog. Foar	sy to do. Continue rin Get medical attention i ation. Symptoms may ation. May cause redr I supportive measures be delayed. or explosion hazards m. Dry chemical powo	sing. Get medical attention i symptoms occur. include stinging, tearing, re ness and pain. May cause a s and treat symptomatically. noted.	f irritation develops dness, swelling, and n allergic skin reacti Keep victim under o	tions. Wash lenses, if and persists. d blurred on. Dermatitis

from the substance or mixture

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 re	lease measures
6.1. Personal precautions, prote	ctive 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. Avoid prolonged exposure. 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 cor	ntrols/personal protection
8.1. Control parameters	

Occupational exposure limits

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

Components	Туре	Value	Form
2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve (CAS 111-76-2)	МАК	98 mg/m3	
		20 ppm	
	STEL	200 mg/m3	
		40 ppm	
Aluminum Flake (CAS 7429-90-5)	МАК	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)	МАК	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
2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve (CAS 111-76-2)	STEL	246 mg/m3	
		50 ppm	
	TWA	98 mg/m3	
		20 ppm	
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

Components	Туре	Value	Form
2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve (CAS 111-76-2)	STEL	246 mg/m3	
		50 ppm	
	TWA	98 mg/m3	
		20 ppm	
Aluminum Flake (CAS 7429-90-5)	TWA	2 mg/m3	
		10 mg/m3	Inhalable fraction.
		1,5 mg/m3	Respirable fraction.
Calcium Carbonate (CAS 1317-65-3)	TWA	1 fibers/cm3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
		10 mg/m3	

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
2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve (CAS 111-76-2)	MAC	98 mg/m3	
		20 ppm	
	STEL	246 mg/m3	
		50 ppm	
Aluminum Flake (CAS 7429-90-5)	MAC	4 mg/m3	Respirable dust.
		10 mg/m3	Total dust.
Calcium Carbonate (CAS 1317-65-3)	MAC	4 mg/m3	Respirable dust.
-		10 mg/m3	Total dust.

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	
2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve (CAS 111-76-2)	STEL	246 mg/m3	
		50 ppm	
	TWA	98 mg/m3	
		20 ppm	

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	
2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve (CAS 111-76-2)	Ceiling	200 mg/m3		
	TWA	100 mg/m3		
Aluminum Flake (CAS 7429-90-5)	TWA	10 mg/m3	Dust.	
Calcium Carbonate (CAS 1317-65-3)	TWA	10 mg/m3	Dust.	

Denmark. Work Environment Authority. Exposure Limits for Substances & Materials, Annex 2

Components	Туре	Value	Form
2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve (CAS 111-76-2)	TLV	98 mg/m3	
		20 ppm	
Aluminum Flake (CAS 7429-90-5)	TLV	5 mg/m3	Fume.
		5 mg/m3	Dust and fume.
		2 mg/m3	Respirable dust and/or fume.
Calcium Carbonate (CAS 1317-65-3)	TLV	5 mg/m3	Respirable dust.
		10 mg/m3	Dust.
		0,5 mg/m3	Respirable quartz fraction.

Estonia. OELs. Occupational Exposure Limits of Hazardous Substances (Regulation No. 105/2001, Annex), as amended

Components	гуре	value	FORM
2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve (CAS 111-76-2)	STEL	246 mg/m3	
		50 ppm	
	TWA	98 mg/m3	
		20 ppm	
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 and Ministry of Health

Components	Туре	Value	Form
2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve (CAS 111-76-2)	STEL	250 mg/m3	
		50 ppm	
	TWA	98 mg/m3	
		20 ppm	
Aluminum Flake (CAS 7429-90-5)	TWA	1,5 mg/m3	Welding fume.
Calcium Carbonate (CAS 1317-65-3)	TWA	10 mg/m3	Dust.

Components	Туре	Value	
2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve (CA 111-76-2)	VLE	246 mg/m3	
		50 ppm	
	VME	49 mg/m3	
		10 ppm	
France. Threshold Limit	Values (VLEP) for Occupational Expose	ure to Chemicals in France, IN	NRS ED 984
Components	Туре	Value	Form
2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve (CA 111-76-2)	VLE S	246 mg/m3	
Regulatory status:	Regulatory binding (VRC)		
		50 ppm	
Regulatory status:	Regulatory binding (VRC)		
	VME	49 mg/m3	
Regulatory status:	Regulatory binding (VRC)		
		10 ppm	
Regulatory status:	Regulatory binding (VRC)		
Aluminum Flake (CAS 7429-90-5)	VME	5 mg/m3	Welding fume.
Regulatory status:	Indicative limit (VL)		
		5 mg/m3	Dust.
Regulatory status:	Indicative limit (VL)		
		10 mg/m3	
Regulatory status:	Indicative limit (VL)		
Calcium Carbonate (CAS 1317-65-3)	VME	4 mg/m3	Total dust.
Regulatory status:	Regulatory binding (VRC)		
		0,9 mg/m3	Respirable dust.
Regulatory status:	Regulatory binding (VRC)		

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG), as updated

Components	Туре	Value	Form
2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve (CAS 111-76-2)	TWA	49 mg/m3	
		10 ppm	
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 Values i	n the Ambient Air at the Workpla	ace	
Components	Туре	Value	Form
2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve (CAS 111-76-2)	AGW	49 mg/m3	
		10 ppm	
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.

Components	in the Ambient Air at the Workplac Type	Value	Form
		1,25 mg/m3	Respirable fraction.
Greece. OELs, Presidential Decree	e No. 307/1986, as amended		
Components	Туре	Value	Form
2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve (CAS 111-76-2)	TWA	120 mg/m3	
		25 ppm	
Aluminum Flake (CAS 7429-90-5)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Pyrophoric powder.
		10 mg/m3	Inhalable
		10 mg/m3	Welding fume.
Calcium Carbonate (CAS 1317-65-3)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Inhalable
Hungary. OELs. Decree on protect Components	tion of workers exposed to chemic Type	al agents (5/2020. (II.6)), Value	Annex 1&2, as amended Form
2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve (CAS 111-76-2)	STEL	246 mg/m3	
	TWA	98 mg/m3	
Aluminum Flake (CAS 7429-90-5)	TWA	1 mg/m3	Respirable.
Calcium Carbonate (CAS 1317-65-3)	TWA	10 mg/m3	
celand. OELs. Regulation 390/200 Components	9 on Pollution Limits and Measure Type	s to Reduce Pollution at Value	the Workplace, as amen Form
2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve (CAS 111-76-2)	STEL	246 mg/m3	
,		50 ppm	
	TWA	100 mg/m3	
		20 ppm	
Aluminum Flake (CAS 7429-90-5)	STEL	10 mg/m3	Dust.
	TWA	5 mg/m3	Dust.
reland. OELVs, Schedules 1 & 2, (Components	Code of Practice for Chemical Age Type	nts and Carcinogens Reg Value	gulations Form
2-butoxyethanol; ethyleneglycol monobutyl	STEL	246 mg/m3	
ether; butyl cellosolve (CAS 111-76-2)			
		50 ppm	
	TWA	98 mg/m3	
		20 ppm	
Aluminum Flake (CAS 7429-90-5)	TWA	1 mg/m3	Respirable fraction.
Calcium Carbonate (CAS 1317-65-3)	TWA	4 mg/m3	Respirable dust.
		10 mg/m3	Total inhalable dust.

Italy. OELs (Legislative Decree n.81, 9 April 2008), as amended				
Components	Туре	Value	Form	
2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve (CAS 111-76-2)	STEL	246 mg/m3		
		50 ppm		
	TWA	98 mg/m3		
		20 ppm		
Aluminum Flake (CAS 7429-90-5)	TWA	1 mg/m3	Respirable fraction.	
Latvia. OELs. Occupational Expose 1), as amended	ure Limits of Chemical Subst	tances at Workplace (Reg. No.	. 325/ 2007, L.V. 80, Annex	
Components	Туре	Value		
2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve (CAS 111-76-2)	STEL	246 mg/m3		
		50 ppm		
	TWA	98 mg/m3		
		20 ppm		
Aluminum Flake (CAS 7429-90-5)	TWA	2 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	Form
2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve (CAS 111-76-2)	STEL	100 mg/m3	
		20 ppm	
	TWA	50 mg/m3	
		10 ppm	
Aluminum Flake (CAS 7429-90-5)	TWA	5 mg/m3	Inhalable fraction.
		2 mg/m3	Respirable fraction.
Calcium Carbonate (CAS 1317-65-3)	TWA	5 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.

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	
2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve (CAS 111-76-2)	STEL	246 mg/m3	
		50 ppm	
	TWA	98 mg/m3	
		20 ppm	

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	
2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve (CAS 111-76-2)	STEL	246 mg/m3	
		50 ppm	
	TWA	98 mg/m3	

Components	Туре	Value	
		20 ppm	
Netherlands. OELs per Annex XIII	of Working Conditions Regul	ation (Staatscourant no. 252,	29 December 2006), as
amended Components	Тиро	Value	
-	Туре		
2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve (CAS 111-76-2)	STEL	246 mg/m3	
	TWA	100 mg/m3	
Norway. Regulation No. 1358 on N nfection Groups for Biological Fa		Physical and Chemical Facto	ors in Work Environment
Components	Туре	Value	Form
2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve (CAS 111-76-2)	TLV	50 mg/m3	
Aluminum Flake (CAS	TLV	10 ppm	Pyrophoric powdor
7429-90-5)	ΙĽV	5 mg/m3	Pyrophoric powder.
		5 mg/m3	Welding fume.
Poland. Maximum permissible cor	ncentrations and intensities o	f harmful factors in the work	environment (Dz.U.Poz.
I286/2018, Annex 1) Components	Туре	Value	Form
- 2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve (CAS	STEL	200 mg/m3	
111-76-2)	TWA	98 mg/m3	
Aluminum Flake (CAS 7429-90-5)	TWA	2,5 mg/m3	Inhalable fraction.
		1,2 mg/m3	Respirable fraction.
Portugal. Decree-Law No. 24/2012 Components	, Occupational Exposure Lim Type	it Values, Annex II, as amende Value	ed
2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve (CAS 111-76-2)	STEL	246 mg/m3	
,		50 ppm	
	TWA	98 mg/m3	
		20 ppm	
Portugal. VLEs. Norm on occupati Components	onal exposure to chemical ao Type	gents (NP 1796-2014) Value	Form
2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve (CAS 111-76-2)	TWA	20 ppm	
Aluminum Flake (CAS 7429-90-5)	TWA	1 mg/m3	Respirable fraction.
Romania. OELs. Limit Values of C amended)			
Components	Туре	Value	Form
2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve (CAS 111-76-2)	STEL	246 mg/m3	
,		50 ppm	

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	Form
	TWA	98 mg/m3	
		20 ppm	
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 1317-65-3)	TWA	10 mg/m3	Inhalable fraction.

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	Form
2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve (CAS 111-76-2)	STEL	246 mg/m3	
		50 ppm	
	TWA	98 mg/m3	
		20 ppm	
Aluminum Flake (CAS 7429-90-5)	TWA	4 mg/m3	Inhalable fraction.
		1,5 mg/m3	Respirable fraction.
Calcium Carbonate (CAS 1317-65-3)	TWA	10 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
2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve (CAS 111-76-2)	TWA	98 mg/m3	
		20 ppm	
Aluminum Flake (CAS 7429-90-5)	TWA	10 mg/m3	Inhalable fraction.
		1,25 mg/m3	Respirable fraction.
Calcium Carbonate (CAS 1317-65-3)	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
2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve (CAS 111-76-2)	STEL	245 mg/m3	
		50 ppm	
	TWA	98 mg/m3	
		20 ppm	
Aluminum Flake (CAS 7429-90-5)	TWA	1 mg/m3	Respirable fraction.
Calcium Carbonate (CAS 1317-65-3)	TWA	3 mg/m3	Respirable fraction.
·		10 mg/m3	Inhalable fraction.

Components	Туре	Value	Form
2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve (CAS I11-76-2)	Ceiling	246 mg/m3	
		50 ppm	
	TWA	50 mg/m3	
		10 ppm	
Aluminum Flake (CAS 7429-90-5)	TWA	5 mg/m3	Total dust.
		2 mg/m3	Respirable dust.
Switzerland. SUVA Grenzwerte an Components	n Arbeitsplatz: Aktuelle MAK-V Type	Verte Value	Form
2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve (CAS 111-76-2)	STEL	98 mg/m3	
		20 ppm	
	TWA	49 mg/m3	
		10 ppm	
Aluminum Flake (CAS 7429-90-5)	TWA	3 mg/m3	Respirable fraction.
Calcium Carbonate (CAS I317-65-3)	TWA	3 mg/m3	Respirable dust.
		10 mg/m3	Inhalable dust.
UK. OELs. Workplace Exposure Li Components	imits (WELs) (EH40/2005 (Fou Type	rth Edition 2020)), Table 1 Value	Form
2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve (CAS 111-76-2)	STEL	246 mg/m3	
	TWA	50 ppm	
	IVVA	123 mg/m3	
Aluminum Elako (CAS	TWA	25 ppm 4 mg/m3	Reenirable duct
Aluminum Flake (CAS	IVVA	4 mg/ms	Respirable dust.
		10 mg/m3	Inhalable dust.
7429-90-5) Calcium Carbonate (CAS	TWA	10 mg/m3 4 mg/m3	Inhalable dust. Respirable dust.
7429-90-5) Calcium Carbonate (CAS	TWA	-	
7429-90-5) Calcium Carbonate (CAS	TWA	4 mg/m3	Respirable dust.
7429-90-5) Calcium Carbonate (CAS	TWA	4 mg/m3 4 mg/m3	Respirable dust. Respirable.
7429-90-5) Calcium Carbonate (CAS 1317-65-3) EU. Indicative Exposure Limit Valu		4 mg/m3 4 mg/m3 10 mg/m3 10 mg/m3	Respirable dust. Respirable. Inhalable dust. Inhalable
7429-90-5) Calcium Carbonate (CAS 1317-65-3) EU. Indicative Exposure Limit Valu Components 2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve (CAS	ues in Directives 91/322/EEC, 2	4 mg/m3 4 mg/m3 10 mg/m3 10 mg/m3 2000/39/EC, 2006/15/EC, 2009	Respirable dust. Respirable. Inhalable dust. Inhalable
7429-90-5) Calcium Carbonate (CAS 1317-65-3) EU. Indicative Exposure Limit Valu Components 2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve (CAS	ues in Directives 91/322/EEC, 2 Type	4 mg/m3 4 mg/m3 10 mg/m3 10 mg/m3 2000/39/EC, 2006/15/EC, 2009 Value	Respirable dust. Respirable. Inhalable dust. Inhalable
 Full Indicative Exposure Limit Value Components 2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve (CAS 111-76-2) 	ues in Directives 91/322/EEC, 2 Type	4 mg/m3 4 mg/m3 10 mg/m3 10 mg/m3 2000/39/EC, 2006/15/EC, 2009 Value 246 mg/m3	Respirable dust. Respirable. Inhalable dust. Inhalable

Biological limit values

Components	Value	Determinant	Specimen	Sampling Time
Aluminum Flake (CAS 7429-90-5)	200 mg/l	Aluminum	Urine	*
* - For sampling details, ple	ase see the source do	ocument.		
Czech Republic. BELs. G	overnment Decree 4	32/2003 Sb., as ame	nded	
Components	Value	Determinant	Specimen	Sampling Time
2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (with hydrolysis)	Creatinine in urine	*
	0,17 mmol/mmol	Butoxyacetic acid (with hydrolysis)	Creatinine in urine	*
* - For sampling details, ple	ase see the source do	ocument.		
Germany. TRGS 903, BAT	List (Biological Lim	it Values)		
Components	Value	Determinant	Specimen	Sampling Time
2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve (CAS 111-76-2)	150 mg/g	Butoxyessigsä ure (nach Hydrolyse)	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.

Spain. BELs. INSST, Límites de Exposición Profesional Para Agentes Químicos, Table 3-Valores Límite Biológicos (VLB) Components Value Determinant Specimen Sampling Time

Componente	Fullo	2010111111	opeennen	eamping into	
2-butoxyethanol;	200 mg/g	Ácido	Creatinine in	*	
ethyleneglycol monobutyl		butoxiacético,	urine		
ether; butyl cellosolve (CA	AS	con hidrólisis			
111-76-2)					

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

Switzerland. SUVA Grenzwerte am Arbeitsplatz: Aktuelle BAT-Werte

Components	Value	Determinant	Specimen	Sampling Time
2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve (CAS 111-76-2)	150 mg/g	Butoxyessigsä ure (nach Hydrolyse)	Creatinine in urine	*
Aluminum Flake (CAS 7429-90-5)	50 µg/g	Aluminium	Creatinine in urine	*

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

Components	nitoring Guidance Va Value	Determi		Specimen	Sampling 1	
2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve (CA 111-76-2)	240 mmol/mol S	Butoxya acid	cetic	Creatinine in urine	*	
* - For sampling details, pl	ease see the source d	ocument.				
commended monitoring ocedures	Follow standard ı	monitoring pr	ocedures.			
rived no effect levels NELs)	Not available.					
edicted no effect ncentrations (PNECs)	Not available.					
posure guidelines						
Austria MAK: Skin desig	nation					
2-butoxyethanol; ethyl cellosolve (CAS 111-7 Belgium OELs: Skin desi	(6-2)	ether; butyl	Can be	absorbed throug	h the skin.	
2-butoxyethanol; ethyl cellosolve (CAS 111-7	eneglycol monobutyl e '6-2)	ether; butyl	Can be	absorbed throug	jh the skin.	
Bulgaria OELs: Skin desi 2-butoxyethanol; ethyl cellosolve (CAS 111-7 Croatia ELVs: Skin desig	eneglycol monobutyl e '6-2)	ether; butyl	Can be	absorbed throug	jh the skin.	
2-butoxyethanol; ethyl cellosolve (CAS 111-7 Czech Republic PELs: SI	eneglycol monobutyl e '6-2)	ether; butyl	Can be	absorbed throug	jh the skin.	
2-butoxyethanol; ethyl cellosolve (CAS 111-7 Denmark GV: Skin desig	6-2)	ether; butyl	Can be	absorbed throug	jh the skin.	
2-butoxyethanol; ethyl cellosolve (CAS 111-7 Estonia OELs: Skin desig	eneglycol monobutyl e '6-2)	ether; butyl	Can be	absorbed throug	h the skin.	
2-butoxyethanol; ethyl cellosolve (CAS 111-7	eneglycol monobutyl e '6-2)	ether; butyl	Can be	absorbed throug	jh the skin.	
EU Exposure Limit Value 2-butoxyethanol; ethyl cellosolve (CAS 111-7	eneglycol monobutyl e	ether; butyl	Can be	absorbed throug	jh the skin.	
Finland Exposure Limit V		tion				
2-butoxyethanol; ethyl cellosolve (CAS 111-7 France INRS: Skin desig	(6-2)	ether; butyl	Can be	absorbed throug	jh the skin.	
2-butoxyethanol; ethyl cellosolve (CAS 111-7	(6-2)	-	Can be	absorbed throug	h the skin.	
France Mandatory OELs 2-butoxyethanol; ethyl cellosolve (CAS 111-7	eneglycol monobutyl e		Can be	absorbed throug	jh the skin.	
Germany DFG MAK (adv 2-butoxyethanol; ethyl	isory): Skin designat eneglycol monobutyl e		Can be	absorbed throug	jh the skin.	
cellosolve (CAS 111-7 Germany TRGS 900 Limi 2-butoxyethanol; ethyl	t Values: Skin desigr		Can he	absorbed throug	ih the skin	
cellosolve (CAS 111-7 Greece OEL: Skin desigr	6-2)	Lioi, outyr	Can be			
2-butoxyethanol; ethyl cellosolve (CAS 111-7 Hungary OELs: Skin des	6-2)	ether; butyl	Can be	absorbed throug	jh the skin.	
2-butoxyethanol; ethyl cellosolve (CAS 111-7 Iceland OELs: Skin desig	eneglycol monobutyl e '6-2)	ether; butyl	Can be	absorbed throug	jh the skin.	
2-butoxyethanol; ethyl cellosolve (CAS 111-7	eneglycol monobutyl e	ether; butyl	Can be	absorbed throug	h the skin.	

Ireland Exposure Limit Value	es: Skin designation					
cellosolve (CAS 111-76-2	•	Can be absorbed through the skin.				
Italy OELs: Skin designation						
cellosolve (CAS 111-76-2		Danger of cutaneous absorption				
Latvia OELs: Skin designation						
cellosolve (CAS 111-76-2		Can be absorbed through the skin.				
Lithuania OELs: Skin design						
cellosolve (CAS 111-76-2 Luxembourg OELs: Skin des		Can be absorbed through the skin.				
2-butoxyethanol; ethylene cellosolve (CAS 111-76-2 Malta OELs: Skin designatio		Can be absorbed through the skin.				
•	glycol monobutyl ether; butyl	Can be absorbed through the skin.				
Netherlands OELs (binding)	Skin designation					
2-butoxyethanol; ethylene cellosolve (CAS 111-76-2	glycol monobutyl ether; butyl)	Can be absorbed through the skin.				
Norway Exposure Limit Valu	v					
cellosolve (CAS 111-76-2	•	Can be absorbed through the skin.				
Portugal OELs: Skin designa		Can be abaarbad through the skin				
cellosolve (CAS 111-76-2 Romania OELs: Skin design		Can be absorbed through the skin.				
-	glycol monobutyl ether; butyl	Can be absorbed through the skin.				
cellosolve (CAS 111-76-2 Slovakia OELs: Skin designa)					
cellosolve (CAS 111-76-2		Can be absorbed through the skin.				
(Official Gazette of the Repu		rkers against risks due to exposure to chemicals while working				
2-butoxyethanol; ethylene cellosolve (CAS 111-76-2	glycol monobutyl ether; butyl)	Can be absorbed through the skin.				
Spain OELs: Skin designation	on					
cellosolve (CAS 111-76-2		Can be absorbed through the skin.				
Sweden Threshold Limit Val	•					
cellosolve (CAS 111-76-2	glycol monobutyl ether; butyl) ıes at the Workplace: Skin de	Can be absorbed through the skin.				
	glycol monobutyl ether; butyl	Can be absorbed through the skin.				
cellosolve (CAS 111-76-2 UK EH40 WEL: Skin designa)					
2-butoxyethanol; ethylene cellosolve (CAS 111-76-2	glycol monobutyl ether; butyl)	Can be absorbed through the skin.				
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 e	quipment				
General information		ment as required. Personal protection equipment should be chosen ds and in discussion with the supplier of the personal protective				
Eye/face protection	Wear safety glasses with side	shields (or goggles). Face shield is recommended.				
Skin protection						
- Hand protection	Wear appropriate chemical res	sistant gloves.				
- Other		sistant clothing. Use of an impervious apron is recommended.				
Respiratory protection	in case of insufficient ventilation	n case of insufficient ventilation, wear suitable respiratory equipment.				

Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
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

SECTION 5. Physical and			
9.1. Information on basic physic	al and chemical properties		
Physical state	Solid.		
Form	Paste.		
Color	Grey.		
Odor	Slight.		
Melting point/freezing point	Not available.		
Boiling point or initial boiling point and boiling range	608 °F (320 °C) estimated		
Flammability	Not available.		
Flash point	>399,9 °F (>204,4 °C)		
Auto-ignition temperature	Not available.		
Decomposition temperature	Not available.		
рН	Not available.		
Kinematic viscosity	Not available.		
Solubility			
Solubility (water)	Not available.		
Partition coefficient (n-octanol/water) (log value)	Not available.		
Vapor pressure	Not available.		
Density and/or relative density			
Density	1,93 g/cm3 estimated		
Vapor density	Not available.		
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 characteristic	S		
Specific gravity	1,93 estimated		
SECTION 10: Stability and	I 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.		
10.6. Hazardous decomposition products	No hazardous decomposition products are known.		
SECTION 11: Toxicologica	al information		
General information	Occupational exposure to the substance or mixture may cause adverse effects.		
Information on likely routes of e	xposure		
Inhalation	Prolonged inhalation may be harmful.		
	Causes skin irritation. May cause an allergic skin reaction.		
Skin contact	Causes skin irritation. May cause an allergic skin reaction.		
Skin contact Eye contact	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.		

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

		<u> </u>	
Acute toxicity	Not known.		
Components	Species	Test Results	
2-butoxyethanol; ethyleneglycol m	onobutyl ether; butyl cellosolve	(CAS 111-76-2)	
<u>Acute</u> Dermal			
LD50	Rabbit	400 mg/kg	
Skin corrosion/irritation	Causes skin irritation.		
Serious eye damage/eye irritation	Causes serious eye irritation.		
Respiratory sensitization	Due to partial or complete lac	c of data the classification is not possible.	
Skin sensitization	May cause an allergic skin reaction.		
Germ cell mutagenicity	Due to partial or complete lac	Due to partial or complete lack of data the classification is not possible.	
Carcinogenicity	Due to partial or complete lac	 of data the classification is not possible. 	
IARC Monographs. Overall I	Evaluation of Carcinogenicity		
	eglycol monobutyl ether; butyl	3 Not classifiable as to carcinogenicity to humans.	
Reproductive toxicity	Not applicable.		
Specific target organ toxicity - single exposure	Due to partial or complete lac	< of data the classification is not possible.	
Specific target organ toxicity - repeated exposure	Due to partial or complete lac	< of data the classification is not possible.	
Aspiration hazard	Due to partial or complete lac	 of data the classification is not possible. 	
Mixture versus substance information	No information available.		
11.2. Information on other hazar	ds		
Endocrine disrupting properties	to human health as assessed	any substances having endocrine disrupting properties with respect in accordance with the criteria set out in Regulations (EC) No 00 and (EU) 2018/605, at a concentration equal to or greater than	
Other information	Not available.		
SECTION 12: Ecological in	nformation		
12.1. Toxicity	Based on available data, the o	classification criteria are not met for hazardous to the aquatic	
12.2. Persistence and degradability	No data is available on the de	gradability of any ingredients in the mixture.	
12.3. Bioaccumulative potential			
Partition coefficient			
n-octanol/water (log Kow) 2-butoxyethanol; ethyleneglyc cellosolve	ol monobutyl ether; butyl	0,83	
Bioconcentration factor (BCF)	Not available.		
12.4. Mobility in soil	No data available.		
12.5. Results of PBT and vPvB assessment	This mixture does not contain (EC) No 1907/2006, Annex XI	substances assessed to be vPvB / PBT according to Regulation II.	
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		tal effects (e.g. ozone depletion, photochemical ozone creation , global warming potential) are expected from this component.	
12.8. Additional information			
Estonia Dangerous substan	ces in soil Data		
2-butoxyethanol; ethylene cellosolve (CAS 111-76-2	eglycol monobutyl ether; butyl ?)	Chemical pesticides (As the total sum of the active substances) 0,5 MG/KG	

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 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.

MG/KG

SECTION 14: Transport information

ADR

ADR	
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	-
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.
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	
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	
Class	Not assigned.
Subsidiary risk	-
14.4. Packing group	-
14.5. Environmental hazards	
14.6. Special precautions	Not assigned.
for user	
ΙΑΤΑ	N I I I I I I
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(
Class	
	Not assigned.
Subsidiary risk 14.4. Packing group	-
14.4. Packing group 14.5. Environmental hazards	No
14.6. Special precautions	Not assigned.
for user	not aboighter.

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	Not assigned.
for user	
14.7. Maritime transport in bulk according to IMO instruments	Not applicable.

SECTION 15: Regulatory information

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

EU 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.

Austria: VVF0-E076-J00C-8TWU Belgium: VVF0-E076-J00C-8TWU Bulgaria: VVF0-E076-J00C-8TWU Croatia: VVF0-E076-J00C-8TWU Cyprus: VVF0-E076-J00C-8TWU Czech Republic: VVF0-E076-J00C-8TWU Denmark: VVF0-E076-J00C-8TWU Estonia: VVF0-E076-J00C-8TWU EU: VVF0-E076-J00C-8TWU Finland: VVF0-E076-J00C-8TWU France: VVF0-E076-J00C-8TWU Germany: VVF0-E076-J00C-8TWU Greece: VVF0-E076-J00C-8TWU Hungary: VVF0-E076-J00C-8TWU Iceland: VVF0-E076-J00C-8TWU Ireland: VVF0-E076-J00C-8TWU Italy: VVF0-E076-J00C-8TWU Latvia: VVF0-E076-J00C-8TWU Lithuania: VVF0-E076-J00C-8TWU Luxembourg: VVF0-E076-J00C-8TWU Malta: VVF0-E076-J00C-8TWU Netherlands: VVF0-E076-J00C-8TWU Norway: VVF0-E076-J00C-8TWU Poland: VVF0-E076-J00C-8TWU Portugal: VVF0-E076-J00C-8TWU Romania: VVF0-E076-J00C-8TWU Slovakia: VVF0-E076-J00C-8TWU Slovenia: VVF0-E076-J00C-8TWU Spain: VVF0-E076-J00C-8TWU Sweden: VVF0-E076-J00C-8TWU

Authorizations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed.

Restrictions on use

	7/2006, REACH Annex XVII Substa n given for the associated entry r	ances subject to restriction on marketing and use, as amended number should be considered
cellosolve (CAS 111-7		75 40
Aluminum Flake (CAS Directive 2004/37/EC: on work, as amended		40 he risks related to exposure to carcinogens and mutagens at
Not listed.		
Other regulations		abelled in accordance with Regulation (EC) 1272/2008 (CLP s Safety Data Sheet complies with the requirements of Regulation ded.
National regulations	Directive 94/33/EC on the prot	old are not allowed to work with this product according to EU tection of young people at work, as amended. Follow national ical agents in accordance with Directive 98/24/EC, as amended.
Contains a substance wi toxic substances	hich is included on the TRGS 905	list of carcinogenic, germ cell mutagenic and reproductive
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 Gipsfasernund Wollastonitfasern)
France regulations		
France INRS Table of Oc	cupational Diseases	
2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve (CAS 111-76-2)		Affections engendrées par les solvants organiques liquides à usage professionnel : hydrocarbures liquides aliphatiques ou cycliques saturés ou insaturés et leurs mélanges; hydrocarbures halogénés liquides; dérivés nitrés des hydrocarbures aliphatiques; al 84
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: VVF0-E076-J00C-8TWU	
Belgium	UFI: VVF0-E076-J00C-8TWU	
Czech Republic	UFI: VVF0-E076-J00C-8TWU	
Material name: DEVCON® Alumir	num Liquid (F-2) Resin	SDS EU

Denmark	UFI: VVF0-E076-J00C-8TWU
European Union	UFI: VVF0-E076-J00C-8TWU
Finland	UFI: VVF0-E076-J00C-8TWU
France	UFI: VVF0-E076-J00C-8TWU
Germany	UFI: VVF0-E076-J00C-8TWU
Greece	UFI: VVF0-E076-J00C-8TWU
Hungary	UFI: VVF0-E076-J00C-8TWU
Italy	UFI: VVF0-E076-J00C-8TWU
Netherlands	UFI: VVF0-E076-J00C-8TWU
Norway	UFI: VVF0-E076-J00C-8TWU
Poland	UFI: VVF0-E076-J00C-8TWU
Portugal	UFI: VVF0-E076-J00C-8TWU
Slovakia	UFI: VVF0-E076-J00C-8TWU
Slovenia	UFI: VVF0-E076-J00C-8TWU
Spain	UFI: VVF0-E076-J00C-8TWU
Sweden	UFI: VVF0-E076-J00C-8TWU
Switzerland	UFI: VVF0-E076-J00C-8TWU
15.2. Chemical safety	No Chemical Safety Assessment has been carried out.
assessment	
SECTION 16: Other inform	nation
List of abbreviations	ADN: European Agreement concerning the International Carriage of Dangerous Coode by Inland
	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	Not available.
Information on evaluation	The classification for health and environmental hazards is derived by a combination of calculation
method leading to the	methods and test data, if available.
classification of mixture	
Full text of any statements,	
which are not written out in full	
under sections 2 to 15	H228 Flammable solid.
	H250 Catches fire spontaneously if exposed to air.
	H261 In contact with water releases flammable gas.
	H302 Harmful if swallowed.
	H311 Toxic in contact with skin.
	H212 Harmful in contact with akin

Revision information Training information H410 Very toxic to aquatic life with long lasting effects. None. Follow training instructions when handling this material.

H312 Harmful in contact with skin. H315 Causes skin irritation.

H332 Harmful if inhaled. H400 Very toxic to aquatic life.

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