SAFETY DATA SHEET

Version #: 02

Issue date: 07-24-2023 Revision date: 09-09-2023 Supersedes date: 07-24-2023

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

1.1. Product identifier

Trade name or designation

of the mixture

Devweld 531 Adhesive

Registration number

Synonyms None.

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

Supplier

ITW Performance Polymers Company name

Address Bay 150

Shannon Industrial Estate

Co. Clare, Ireland

Division

Telephone Phone 353(61)771500

e-mail customerservice.shannon@itwpp.com

Not available. Contact person

1.4. Emergency telephone

number

44(0)1235 239 670 **Emergency 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.)

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

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.)

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

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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.)

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Latvia Emergency medical

Latvia Poison and Drug +371 67042473 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.) Information Center

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

+ 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

Information Service

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

Physical hazards

Flammable liquids Category 2 H225 - Highly flammable liquid and

vapor.

Health hazards

Skin corrosion/irritation Category 2 H315 - Causes skin irritation.

Skin sensitization Category 1 H317 - May cause an allergic skin

reaction.

Environmental hazards

H412 - Harmful to aquatic life with Hazardous to the aquatic environment, Category 3

long-term aquatic hazard

long lasting effects.

2.2. Label elements

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

UFI:

Austria: JFG0-Y01Y-P00U-V709 Belgium: JFG0-Y01Y-P00U-V709 Bulgaria: JFG0-Y01Y-P00U-V709 Croatia: JFG0-Y01Y-P00U-V709 Cyprus: JFG0-Y01Y-P00U-V709

Czech Republic: JFG0-Y01Y-P00U-V709 Denmark: JFG0-Y01Y-P00U-V709 Estonia: JFG0-Y01Y-P00U-V709 EU: JFG0-Y01Y-P00U-V709 Finland: JFG0-Y01Y-P00U-V709 France: JFG0-Y01Y-P00U-V709 Germany: JFG0-Y01Y-P00U-V709 Greece: JFG0-Y01Y-P00U-V709 Hungary: JFG0-Y01Y-P00U-V709 Iceland: JFG0-Y01Y-P00U-V709 Ireland: JFG0-Y01Y-P00U-V709 Italy: JFG0-Y01Y-P00U-V709 Latvia: JFG0-Y01Y-P00U-V709 Lithuania: JFG0-Y01Y-P00U-V709 Luxembourg: JFG0-Y01Y-P00U-V709 Malta: JFG0-Y01Y-P00U-V709 Netherlands: JFG0-Y01Y-P00U-V709

Netherlands: JFG0-Y01Y-P00U-V7 Norway: JFG0-Y01Y-P00U-V709 Poland: JFG0-Y01Y-P00U-V709 Portugal: JFG0-Y01Y-P00U-V709 Romania: JFG0-Y01Y-P00U-V709 Slovakia: JFG0-Y01Y-P00U-V709 Slovenia: JFG0-Y01Y-P00U-V709 Spain: JFG0-Y01Y-P00U-V709 Sweden: JFG0-Y01Y-P00U-V709

Contains: maleic acid, methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate

Hazard pictograms





Signal word Danger

Hazard statements

H225 Highly flammable liquid and vapor.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P235 Keep cool.

P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting equipment.

P242 Use non-sparking tools.

P₂₄₃ Take action to prevent static discharges.

P261 Avoid breathing mist/vapors.
P264 Wash thoroughly after handling.

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

P273 Avoid release to the environment.

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

Response

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

water/shower.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P370 + P378 In case of fire: Use appropriate media to extinguish.

Storage

P403 + P235 Store in a well-ventilated place. Keep cool.

Disposal

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

Supplemental label information

45% of the mixture consists of component(s) of unknown acute inhalation toxicity. 52,5% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 45% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

2.3. Other hazards

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII. The mixture does not contain any substances included in the list established in accordance with REACH Article 59(1) for having endocrine disrupting properties at a concentration equal to or greater than 0.1% by weight.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate	30-60%	80-62-6 201-297-1	01-2119452498-28-0000	607-035-00-6	#
Classific	ation: Flam. Liq. 3;H335	2;H225, Skin Irrit. 2;F	H315, Skin Sens. 1;H317, S	TOT SE	
Specific Concentration L	imits: STOT SE	3;H335: C ≥ 10 %			
maleic acid	5-10%	110-16-7 203-742-5	-	607-095-00-3	
Classific	mg/kg bw)		ng/kg bw), Acute Tox. 4;H31 ye Irrit. 2;H319, Skin Sens. ′ H411		

Other components below reportable

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).

Specific Concentration Limits: Skin Sens. 1;H317: C ≥ 0.1 %

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

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

SECTION 4: First aid measures

General information Take off all contaminated clothing immediately. 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. Get medical attention if irritation develops and persists.

Rinse mouth. Get medical attention if symptoms occur. Ingestion

4.2. Most important symptoms and effects, both acute and

delayed

Direct contact with eyes may cause temporary irritation. 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. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation.

Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards Highly flammable liquid and vapor.

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 Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

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SDS FII

5.3. Advice for firefighters

Special protective equipment for firefighters

Special fire fighting procedures

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

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Avoid breathing mist/vapors. 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. Wear appropriate protective equipment and clothing during clean-up. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Ventilate closed spaces before entering them. Avoid breathing mist/vapors. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

6.2. Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). 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

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid breathing mist/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

ANNEX 1, PART 1 Categories of dangerous substances

Hazard categories in accordance with Regulation (EC) No 1272/2008

- P5a, b or c FLAMMABLE LIQUIDS (Lower-tier requirements = 50 tons; Upper-tier requirements = 200 tons)

7.3. Specific end use(s)

Observe industrial sector guidance on best practices.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Austria. MAK List, OEL Ordinance (GwV Components	Type	Value
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	Ceiling	420 mg/m3
		100 ppm
	MAK	210 mg/m3

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50 ppm

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	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	416 mg/m3	
		100 ppm	
	TWA	208 mg/m3	
		50 ppm	

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

Components	Туре	Value	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	100 ppm	
	TWA	50 ppm	

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	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	MAC	50 ppm	
	STEL	100 ppm	

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
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	100 ppm
	TWA	50 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
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	Ceiling	150 mg/m3
	TWA	50 mg/m3

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

TLV

methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)

25 ppm

102 mg/m3

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

methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) STEL 100 ppm

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		Type	gulation No. 105/2001, Annex), as amended Value
		TWA	50 ppm
Finland. HTP-arvot, App Components	3., Binding Limit	Values, Social Affairs and Ministry Type	of Health Value
methyl methacrylate; metl 2-methylprop-2-enoate; methyl 2-methylpropenoa (CAS 80-62-6)	•	STEL	210 mg/m3
			50 ppm
		TWA	42 mg/m3
			10 ppm
France. OELs. Occupati Components	onal Exposure Lin	nits as Prescribed by Art. R.4412-1 Type	49 of Labor Code, as amended Value
methyl methacrylate; metl 2-methylprop-2-enoate; methyl 2-methylpropenoa (CAS 80-62-6)	•	VLE	410 mg/m3
			100 ppm
		VME	205 mg/m3
			50 ppm
France. Threshold Limit Components	Values (VLEP) for	Occupational Exposure to Chemi Type	cals in France, INRS ED 984 Value
methyl methacrylate; metl 2-methylprop-2-enoate; methyl 2-methylpropenoa (CAS 80-62-6)	•	VLE	410 mg/m3
Regulatory status:	Regulatory bindin	g (VRC)	
			100 ppm
Regulatory status:	Regulatory bindin	- ' '	
		VME	205 mg/m3
Regulatory status:	Regulatory bindin	g (VRC)	50
Regulatory status:	Regulatory bindin	a (VPC)	50 ppm
9			of Hoolth Howards of Chamical Common and
Germany. DFG MAK LIS in the Work Area (DFG),		Commission for the investigation	of Health Hazards of Chemical Compound
Components	•	Туре	Value
2-methylprop-2-enoate; methyl 2-methylpropenoa	•	TWA	210 mg/m3
2-methylprop-2-enoate; methyl 2-methylpropenoa	•	TWA	210 mg/m3 50 ppm
2-methylprop-2-enoate; methyl 2-methylpropenoa (CAS 80-62-6) Germany. TRGS 900, Lir	te	TWA Imbient Air at the Workplace Type	-
2-methylprop-2-enoate; methyl 2-methylpropenoa (CAS 80-62-6) Germany. TRGS 900, Lir Components methyl methacrylate; metl 2-methylprop-2-enoate; methyl 2-methylpropenoa	te mit Values in the A	mbient Air at the Workplace	50 ppm
2-methylprop-2-enoate; methyl 2-methylpropenoa (CAS 80-62-6) Germany. TRGS 900, Lir Components methyl methacrylate; metl 2-methylprop-2-enoate; methyl 2-methylpropenoa	te mit Values in the A	mbient Air at the Workplace Type	50 ppm Value
methyl methacrylate; metl 2-methylprop-2-enoate; methyl 2-methylpropenoa (CAS 80-62-6) Germany. TRGS 900, Lir Components methyl methacrylate; metl 2-methylprop-2-enoate; methyl 2-methylpropenoa (CAS 80-62-6) Greece. OELs, Presiden Components	te mit Values in the A hyl te	ambient Air at the Workplace Type AGW	50 ppm Value 210 mg/m3
2-methylprop-2-enoate; methyl 2-methylpropenoa (CAS 80-62-6) Germany. TRGS 900, Lir Components methyl methacrylate; metl 2-methylprop-2-enoate; methyl 2-methylpropenoa (CAS 80-62-6) Greece. OELs, Presiden	te mit Values in the A hyl te tial Decree No. 30	Ambient Air at the Workplace Type AGW 7/1986, as amended	50 ppm Value 210 mg/m3 50 ppm

Components	Type	11E malm2
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	415 mg/m3
	TWA	208 mg/m3
celand. OELs. Regulation 390/2009 Components	on Pollution Limits and Me Type	asures to Reduce Pollution at the Workplace, as amended Value
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	100 ppm
	TWA	50 ppm
reland. OELVs, Schedules 1 & 2, C Components	ode of Practice for Chemica Type	I Agents and Carcinogens Regulations Value
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	100 ppm
	TWA	50 ppm
Italy. OELs (Legislative Decree n.81		Value
Components	Туре	Value
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	100 ppm
	TWA	50 ppm
Latvia. OELs. Occupational Exposu 1), as amended	re Limits of Chemical Subst	tances at Workplace (Reg. No. 325/ 2007, L.V. 80, Annex
Components	Туре	Value
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	TWA	10 mg/m3
	osure Limit Values for Chen	nical Substances (Hygiene Norm HN 23:2011; Order No.
V-824/A1-389), as amended Components	Туре	Value
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	416 mg/m3
(0/10/00-02-0)		100 ppm
	TWA	208 mg/m3
		50 ppm
	oational Exposure Limit Valu	ies (Annex I), G.D.R. of 14 November 2016, OJ Memorial A
n ° 235/2016, as amended Components	Туре	Value
methyl methacrylate; methyl	STEL	100 ppm
2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)		
	TWA	50 ppm
	10 6 4 6 144 1 6 -	Risks related to Chemical Agents at Work (L.N 227/2003
	nd Safety of Workers from F	
Malta. OELs. Protection of Health a Schedules I and V), as amended Components	nd Safety of Workers from F	Value

Components	Туре	Value	
	TWA	50 ppm	

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

Components	Туре	Value	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	410 mg/m3	
	TWA	205 mg/m3	

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

Components	Туре	Value	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	400 mg/m3	
		100 ppm	
	TLV	100 mg/m3	
		25 ppm	

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

Components	Туре	Value	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	300 mg/m3	
	TWA	100 mg/m3	

Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796-2014) Components Type Value

•	••	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	100 ppm
	TWA	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	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	410 mg/m3	
		100 ppm	
	TWA	205 mg/m3	
		50 ppm	

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
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	100 ppm
	TWA	50 ppm

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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 Value

Components	туре	value
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate	TWA	210 mg/m3
(CAS 80-62-6)		50
		50 ppm
Spain. OELs. INSST, Límite (VLAs)	s de Exposición Profesional Para Aç	gentes Químicos, Table 1-Valores Límites Ambientales
Components	Туре	Value
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	100 ppm
(0/10/00-02-0)	TWA	50 ppm
Sweden. OELs (Annex 1). W amended	ork Environment Authority (AV), Od	ccupational Exposure Limit Values (AFS 2018:1), as
Components	Туре	Value
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	Ceiling	400 mg/m3
,		100 ppm
	TWA	200 mg/m3
		50 ppm
Switzerland. SUVA Grenzwe	erte am Arbeitsplatz: Aktuelle MAK-	Werte
Components	Туре	Value
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	420 mg/m3
,		100 ppm
	TWA	210 mg/m3
		50 ppm
UK. OELs. Workplace Expo Components	sure Limits (WELs) (EH40/2005 (Fou Type	urth Edition 2020)), Table 1 Value
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	416 mg/m3
(5.15 55 52 5)		100 ppm
	TWA	208 mg/m3
		50 ppm
EU. Indicative Exposure Lin Components	nit Values in Directives 91/322/EEC, Type	2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU Value
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	100 ppm
. ,	TWA	50 ppm
ogical limit values	No biological exposure limits noted f	for the ingredient(s).
ommended monitoring edures	Follow standard monitoring procedu	ires.
ved no effect levels ELs)	Not available.	
dicted no effect	Not available.	

		100 ppm	
	TWA	210 mg/m3	
		50 ppm	
UK. OELs. Workplace Expo Components	osure Limits (WELs) (EH40/2005 (Fou Type	ırth Edition 2020)), Table 1 Value	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	416 mg/m3	
		100 ppm	
	TWA	208 mg/m3	
		50 ppm	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	100 ppm	
2-methylprop-2-enoate; methyl 2-methylpropenoate	STEL TWA	100 ppm 50 ppm	
2-methylprop-2-enoate; methyl 2-methylpropenoate		50 ppm	
2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	TWA	50 ppm for the ingredient(s).	
2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	TWA No biological exposure limits noted f	50 ppm for the ingredient(s).	

Exposure guidelines

Croatia ELVs: Skin designation

methyl methacrylate; methyl 2-methylprop-2-enoate;

methyl 2-methylpropenoate (CAS 80-62-6)

Denmark GV: Skin designation

methyl methacrylate; methyl 2-methylprop-2-enoate;

methyl 2-methylpropenoate (CAS 80-62-6)

Hungary OELs: Skin designation

methyl methacrylate; methyl 2-methylprop-2-enoate;

methyl 2-methylpropenoate (CAS 80-62-6)

Iceland OELs: Skin designation

methyl methacrylate; methyl 2-methylprop-2-enoate;

methyl 2-methylpropenoate (CAS 80-62-6)

Can be absorbed through the skin.

8.2. Exposure controls

Appropriate engineering

controls

Explosion-proof general and local exhaust ventilation. 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

Eye/face protection Wear safety glasses with side shields (or goggles). Face shield is recommended.

Skin protection

- Hand protection Wear appropriate chemical resistant gloves.

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

If engineering controls do not maintain airborne concentrations below recommended exposure Respiratory protection

limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Hygiene measures When using do not smoke. 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

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

levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid. Liquid. **Form**

Color White, Off-white Slight. Pungent. Odor

Melting point/freezing point -53,86 °F (-47,7 °C) / -54,4 °F (-48 °C) estimated

Boiling point or initial boiling point and boiling range

Flash point

212,9 °F (100,5 °C)

50,0 °F (10,0 °C)

Flammability

Not applicable. Upper/lower flammability or explosive limits

Explosive limit - lower (%) 2,1 % estimated 8,2 % estimated Explosive limit - upper (%)

815 °F (435 °C) estimated **Auto-ignition temperature**

Decomposition temperature Not available.

3 - 3.5

Material name: Devweld 531 Adhesive

Kinematic viscosity 0,04 - 0,071 m²/s

4452 Version #: 02 Revision date: 09-09-2023 Issue date: 07-24-2023

SDS FII

Solubility

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

(n-octanol/water) (log value)

Vapor pressure 28 mm Hg

Density and/or relative density

0,93 - 1,05 g/cm³ **Density** Not available. Vapor density Particle characteristics Not available.

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No relevant additional information available.

9.2.2. Other safety characteristics

Specific gravity 0.93 - 1.05

VOC <50 g/l Mixed components

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 Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Contact with incompatible materials.

Strong oxidizing agents. Nitrates. Peroxides.

10.5. Incompatible materials

10.6. Hazardous

No hazardous decomposition products are known.

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

Inhalation Prolonged inhalation may be harmful.

Skin contact Causes skin irritation. May cause an allergic skin reaction. Eye contact Direct contact with eyes may cause temporary irritation.

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

occupational exposure.

Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. **Symptoms**

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

Acute toxicity Not known.

Components **Test Results Species**

maleic acid (CAS 110-16-7)

Acute

Dermal

Rabbit 1560 mg/kg LD50

methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)

Acute Oral

LD50 Rat 7800 mg/kg

Skin corrosion/irritation Causes skin irritation.

Serious eve damage/eve

irritation

Direct contact with eyes may cause temporary irritation.

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

Skin sensitization May cause an allergic skin reaction.

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

Material name: Devweld 531 Adhesive

IARC Monographs. Overall Evaluation of Carcinogenicity

methyl methacrylate; methyl 2-methylprop-2-enoate;

methyl 2-methylpropenoate (CAS 80-62-6)

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

Specific target organ toxicity -

single exposure

Not applicable.

Specific target organ toxicity -

repeated exposure

Reproductive toxicity

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

3 Not classifiable as to carcinogenicity to humans.

0.1% by weight.

Other information Not available.

SECTION 12: Ecological information

Harmful to aquatic life with long lasting effects. Based on available data, the classification criteria 12.1. Toxicity

are not met for hazardous to the aquatic environment, acute hazard.

12.2. Persistence and

degradability

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

12.3. Bioaccumulative potential

Partition coefficient

n-octanol/water (log Kow)

-0,48maleic acid methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 1,38

2-methylpropenoate

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 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).

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.

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow Disposal methods/information

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. 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 UN1133

14.2. UN proper shipping

Material name: Devweld 531 Adhesive

ADHESIVES containing flammable liquid (vapour pressure at 50 °C more than 110 kPa)

14.3. Transport hazard class(es)

Class 3

Subsidiary risk 3 Label(s) Hazard No. (ADR) 33 D/E Tunnel restriction code 14.4. Packing group Ш 14.5. Environmental hazards No. Read safety instructions, SDS and emergency procedures before handling. 14.6. Special precautions for user RID 14.1. UN number UN1133 ADHESIVES containing flammable liquid (having a flash-point below 23 °C and viscous 14.2. UN proper shipping according to 2.2.3.1.4) (vapour pressure at 50 °C more than 110 kPa) name 14.3. Transport hazard class(es) 3 Class Subsidiary risk 3 Label(s) Ш 14.4. Packing group 14.5. Environmental hazards No. 14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling. for user **ADN** 14.1. UN number **LIN1133** 14.2. UN proper shipping ADHESIVES containing flammable liquid name 14.3. Transport hazard class(es) 3 Class Subsidiary risk 3 Label(s) Ш 14.4. Packing group 14.5. Environmental hazards No. 14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling. for user **IATA** 14.1. UN number UN1133 14.2. UN proper shipping Adhesives containing flammable liquid name 14.3. Transport hazard class(es) Class 3 Subsidiary risk Ш 14.4. Packing group 14.5. Environmental hazards No. 3L **FRG Code** 14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling. for user Other information Passenger and cargo Allowed with restrictions. aircraft Allowed with restrictions. Cargo aircraft only **IMDG** 14.1. UN number **UN1133** 14.2. UN proper shipping ADHESIVES containing flammable liquid name 14.3. Transport hazard class(es) 3 Class Subsidiary risk Ш 14.4. Packing group 14.5. Environmental hazards Marine pollutant No. F-E, S-D **EmS** Read safety instructions, SDS and emergency procedures before handling. 14.6. Special precautions for user Not established. 14.7. Maritime transport in bulk

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 Not listed.

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

UFI:

Austria: JFG0-Y01Y-P00U-V709 Belgium: JFG0-Y01Y-P00U-V709 Bulgaria: JFG0-Y01Y-P00U-V709 Croatia: JFG0-Y01Y-P00U-V709 Cyprus: JFG0-Y01Y-P00U-V709

Czech Republic: JFG0-Y01Y-P00U-V709

Denmark: JFG0-Y01Y-P00U-V709 Estonia: JFG0-Y01Y-P00U-V709 EU: JFG0-Y01Y-P00U-V709 Finland: JFG0-Y01Y-P00U-V709 France: JFG0-Y01Y-P00U-V709 Germany: JFG0-Y01Y-P00U-V709 Greece: JFG0-Y01Y-P00U-V709 Hungary: JFG0-Y01Y-P00U-V709 Iceland: JFG0-Y01Y-P00U-V709 Ireland: JFG0-Y01Y-P00U-V709 Italy: JFG0-Y01Y-P00U-V709 Latvia: JFG0-Y01Y-P00U-V709 Lithuania: JFG0-Y01Y-P00U-V709 Luxembourg: JFG0-Y01Y-P00U-V709 Malta: JFG0-Y01Y-P00U-V709 Netherlands: JFG0-Y01Y-P00U-V709 Norway: JFG0-Y01Y-P00U-V709 Poland: JFG0-Y01Y-P00U-V709 Portugal: JFG0-Y01Y-P00U-V709 Romania: JFG0-Y01Y-P00U-V709 Slovakia: JFG0-Y01Y-P00U-V709

Slovenia: JFG0-Y01Y-P00U-V709 Spain: JFG0-Y01Y-P00U-V709 Sweden: JFG0-Y01Y-P00U-V709

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

Not listed

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

Not listed.

Other EU regulations Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

ANNEX 1, PART 1 Categories of dangerous substances

Hazard categories in accordance with Regulation (EC) No 1272/2008

- P5a, b or c FLAMMABLE LIQUIDS

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.

France regulations

France INRS Table of Occupational Diseases

methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)

Affections provoquées par le méthacrylate de méthyle 82

Product registration number

Austria UFI: JFG0-Y01Y-P00U-V709 **Belgium** UFI: JFG0-Y01Y-P00U-V709 **Czech Republic** UFI: JFG0-Y01Y-P00U-V709 UFI: JFG0-Y01Y-P00U-V709 **Denmark European Union** UFI: JFG0-Y01Y-P00U-V709 **Finland** UFI: JFG0-Y01Y-P00U-V709 UFI: JFG0-Y01Y-P00U-V709 France UFI: JFG0-Y01Y-P00U-V709 Germany UFI: JFG0-Y01Y-P00U-V709 Greece UFI: JFG0-Y01Y-P00U-V709 Hungary Italy UFI: JFG0-Y01Y-P00U-V709 **Netherlands** UFI: JFG0-Y01Y-P00U-V709 **Norway** UFI: JFG0-Y01Y-P00U-V709 **Poland** UFI: JFG0-Y01Y-P00U-V709 **Portugal** UFI: JFG0-Y01Y-P00U-V709 UFI: JFG0-Y01Y-P00U-V709 Slovakia UFI: JFG0-Y01Y-P00U-V709 Slovenia UFI: JFG0-Y01Y-P00U-V709 Spain UFI: JFG0-Y01Y-P00U-V709 Sweden UFI: JFG0-Y01Y-P00U-V709 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.

Material name: Devweld 531 Adhesive

SDS EU

vPvB: Very persistent and very bioaccumulative.

References

Information on evaluation method leading to the classification of mixture

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

Not available.

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

H225 Highly flammable liquid and vapor.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation. H335 May cause respiratory irritation.

H411 Toxic to aquatic life with long lasting effects.

Revision information

Training information

Disclaimer

Follow training instructions when handling this material.

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: Devweld 531 Adhesive