SAFETY DATA SHEET

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 Activator	
Registration number	-	
Product registration number	UFI: 0DG0-F0CK-D00A-7VE7	
Synonyms	None.	
Issue date	09-September-2023	
Version number	01	
1.2. Relevant identified uses of Identified uses	the substance or mixture and u Not available.	ses advised against
Uses advised against	None known.	
1.3. Details of the supplier of the	e safety data sheet	
Supplier		
Company name Address	ITW Performance Polymers Bay 150 Shannon Industrial Estate Co. Clare, Ireland	
Division		
Telephone	Phone	353(61)771500
e-mail	customerservice.shannon@itw	pp.com
Contact person	Not available.	
1.4. Emergency telephone number	Emergency Number	44(0)1235 239 670
General emergency	112 or 999 SDS/Product inforn Service.	nation may not be available for the Emergency
Non-emergency medical helpline	111 SDS/Product information r	nay 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 vapour.
Health hazards Skin corrosion/irritation	Category 2	H315 - Causes skin irritation.
Skin sensitisation	Category 1	H317 - May cause an allergic skin reaction.
Specific target organ toxicity - single exposure	Category 3 respiratory tract irritation	H335 - May cause respiratory irritation.

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

2.2. Label elements

Contains:

Signal word

Hazard pictograms

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

Danger

Material name: Devweld 531 Activator 4451 Version #: 01 Issue date: 09-September-2023

Hazard statements

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.

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/vapours.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
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.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTRE/doctor if you feel unwell.
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 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
Disposal	
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
Supplemental label information	80 % of the mixture consists of component(s) of unknown acute inhalation toxicity. 80 % of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 80 % 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	60-100%	80-62-6 201-297-1	01-2119452498-28-0000	607-035-00-6	#
3 1 1		2;H225, Acute Tox. 4 ГОТ SE 3;H335	;H332, Skin Irrit. 2;H315, Sk	kin Sens.	D

Other components below reportable levels

List of abbreviations and symbols that may be used above

- ATE: Acute toxicity estimate.
- M: M-factor

vPvB: very persistent and very bioaccumulative substance.

PBT: persistent, bioaccumulative and toxic substance.

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

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

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

SECTION 4: First aid measures

General information	Take off all contaminated clothing immediately. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.		
4.1. Description of first aid meas	sures		
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison centre or doctor/physician if you feel unwell.		
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.		
Ingestion	Rinse mouth. Get medical attention if symptoms occur.		
4.2. Most important symptoms and effects, both acute and delayed	Direct contact with eyes may cause temporary irritation. May cause respiratory 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 vapour.	
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	Vapours may form explosive mixtures with air. Vapours may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.	
5.3. Advice for firefighters		
Special protective equipment for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.	
Special fire fighting procedures	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.	
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.	

SECTION 6: Accidental release measures

6.1. Personal precautions, protect	ctive equipment and emergency procedures
For non-emergency personnel	Avoid breathing mist/vapours. 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/vapours. 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 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.
	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/vapours. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
7.2. Conditions for safe storage, including any incompatibilities	Store locked up. 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 tonnes; Upper-tier requirements = 200 tonnes)
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

Components	sure Limits (WELs) (EH40/2005 (Fou Type	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	
Biological limit values	No biological exposure limits noted f	or the ingredient(s).	
Recommended monitoring procedures	Follow standard monitoring procedu	res.	
Derived no effect levels (DNELs)	Not available.		
Predicted no effect concentrations (PNECs)	Not available.		
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 equipn	nent	
General information		as required. Personal protection equipment should be chosen in discussion with the supplier of the personal protective	
Eye/face protection	Chemical respirator with organic vap	our cartridge and full facepiece.	
Skin protection			
- Hand protection	Wear appropriate chemical resistant	gloves.	
- Other	Wear appropriate chemical resistant	clothing.	
Respiratory protection	Chemical respirator with organic vap	our cartridge and full facepiece.	
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 no be allowed out of the workplace.		

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 9. Physical and		
9.1. Information on basic physic	cal and chemical properties	
Appearance	Paste.	
Physical state	Liquid.	
Form	Liquid.	
Colour	Yellow	
Odour	Slight. Pungent	
Odour threshold	Not available.	
рН	4.5 - 5.5	
Melting point/freezing point	-48 °C (-54.4 °F) estimated	
Initial boiling point and boiling range	101 °C (213.8 °F)	
Flash point	10.0 °C (50.0 °F)	
Evaporation rate	Not available.	
Flammability (solid, gas)	Not applicable.	
Upper/lower flammability or exp	plosive limits	
Explosive limit - lower (%)	2.1 % estimated	
Explosive limit – upper (%)	8.2 % estimated	
Vapour pressure	28 mm Hg	
Vapour density	Not available.	
Relative density	Not available.	
Solubility(ies)		
Solubility (water)	Not available.	
Partition coefficient (n-octanol/water)	Not available.	
Auto-ignition temperature	435 °C (815 °F) estimated	
Decomposition temperature	Not available.	
Viscosity	Not available.	
Explosive properties	Not explosive.	
Oxidising properties	Not oxidising.	
9.2. Other information		
Density	0.96 g/cm³	
Kinematic viscosity	0.042 - 0.073 m²/s	
Specific gravity	0.96	
VOC	<50 g/l Mixed components	
SECTION 10: Stability and	d 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.	
10.5. Incompatible materials	Strong oxidising agents. Nitrates. Peroxides.	
10.6. Hazardous decomposition products	No hazardous decomposition products are known.	
SECTION 11: Toxicologic	al information	
General information	Occupational exposure to the substance or mixture may cause adverse effects.	
Information on likely routes of e Inhalation	exposure May cause irritation to the respiratory system. 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.		
Symptoms	May cause respiratory irritation. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.		
11.1. Information on toxicologica	l effects		
Acute toxicity	Not known.		
Components	Species	Test Results	
methyl methacrylate; methyl 2-meth	ylprop-2-enoate; methyl 2-me	thylpropenoate (CAS 80-62-6)	
Acute			
Oral			
LD50	Rat	7800 mg/kg	
Skin corrosion/irritation	Causes skin irritation.		
Serious eye damage/eye rritation	Direct contact with eyes may	cause temporary irritation.	
Respiratory sensitisation	Due to partial or complete lac	ck of data the classification is not possible.	
Skin sensitisation	May cause an allergic skin re	paction.	
Germ cell mutagenicity	Due to partial or complete lac	ck of data the classification is not possible.	
Carcinogenicity	Due to partial or complete lac	ck of data the classification is not possible.	
IARC Monographs. Overall E methyl methacrylate; meth methyl 2-methylpropenoat	yl 2-methylprop-2-enoate; e (CAS 80-62-6)	3 Not classifiable as to carcinogenicity to humans.	
Reproductive toxicity		ck of data the classification is not possible.	
Specific target organ toxicity - single exposure	May cause respiratory irritation		
Specific target organ toxicity - repeated exposure	Due to partial or complete lac	ck 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.		
SECTION 12: Ecological in	formation		
12.1. Toxicity		as environmentally hazardous. However, this does not exclude the ent spills can have a harmful or damaging effect on the environmen	
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) methyl methacrylate; methyl 2-	methylprop-2-enoate; methyl	1.38	
2-methylpropenoate			
Bioconcentration factor (BCF)	Not available.		
2.4. Mobility in soil	No data available.		
12.5. Results of PBT and vPvB assessment	This mixture does not contain (EC) No 1907/2006, Annex X	n substances assessed to be vPvB / PBT according to Regulation	
12.6. 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 cor	siderations		
13.1. Waste treatment methods			
Residual waste		h local regulations. Empty containers or liners may retain some ial and its container must be disposed of in a safe manner (see:	

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.

Disposel methods/information Collect and redaim or dispose in seaded containors at licensed waste disposel set. Dispose in contret/scontainer in accordance with olaritergionalizational/international regulations. Special procautions Dispose in accordance with all applicable regulations. Special procautions UNITI33 ADM Callest and procaution of the processure at 50 °C more than 110 kPa) and and the processure at 50 °C more than 110 kPa) and the processure at 50 °C more than 110 kPa	EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.	
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Material name: Devweld 531 Activator

14.3. Transport hazard class	(es)
Class	3
Subsidiary risk	-
14.4. Packing group	П
14.5. Environmental hazards	
Marine pollutant	No.
EmS	F-E, S-D
14.6. Special precautions	Read safety instructions, SDS and emergency procedures before handling.
for user	
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not established.
ADN; ADR; IATA; IMDG; RID	

SECTION 15: Regulatory information

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

Retained direct 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.

Authorisations

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.

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

This product is classified and labelled in accordance with the retained CLP Regulation (EC) No 1272/2008, as amended for Great Britain. This Safety Data Sheet is compiled in accordance with REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758.

Use of this product by young persons under the age of 18 is not allowed in accordance with the Management of Health and Safety at Work Regulations 1999 [SI 1999/3242], as amended. Follow the requirements of the Control of Substances Hazardous to Health Regulations 2002 [SI 2002/2677], as amended, when using this material.

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. 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. 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. TWA: Time Weighted Average.
References	vPvB: Very persistent and very bioaccumulative. Not available.
Information on evaluation method leading to the classification of mixture	The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.
Full text of any statements, which are not written out in full	
under sections 2 to 15	H225 Highly flammable liquid and vapour. H315 Causes skin irritation. H317 May cause an allergic skin reaction.
	H332 Harmful if inhaled. H335 May cause respiratory irritation.
Revision information	Product and Company Identification: Product Registration Numbers Composition / Information on Ingredients: Undisclosed Ingredient Statement Transport Information: Product Shipping Name/Packing Group
Training information	Follow training instructions when handling this material.
Disclaimer	ITW Performance Polymers cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.