SAFETY DATA SHEET

1. Identification

1. Identification			
Product identifier	Devweld 531 Activator		
Other means of identification	None.		
Recommended use	Not available.		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplier	/Distributor information		
Manufacturer			
Company name Address	ITW Performance Polymers Bay 150 Shannon Industrial Estate Co, Clare, Ireland		
Telephone	Phone 363(61)771500		
E-mail	customerservice.shannon@itwpp.com		
Emergency phone number	Emergency Number 44(0)1235 239 6	70	
2. Hazard(s) identification	1		
Physical hazards	Flammable liquids	Category 2	
Health hazards	Skin corrosion/irritation	Category 2	
	Serious eye damage/eye irritation	Category 2A	
	Sensitization, skin	Category 1	
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation	
Environmental hazards	Not classified.		
OSHA defined hazards	Not classified.		
Label elements			
Signal word	Danger		
Hazard statement	Highly flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation.		
Precautionary statement			
Prevention	Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist/vapors. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.		
Posnonso	If on skin (or hair). Take off immediately all co	ntaminated clothing. Rinse skin with water/shower	

Response If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use appropriate media to extinguish.
 Storage Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

Static accumulating flammable liquid can become electrostatically charged even in bonded and

grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

Hazard(s) not otherwise classified (HNOC)

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.

3. Composition/informatio	on on ingredients		
Mixtures			
Chemical name	Common name and synonyms	CAS number	%
Methyl Methacrylate		80-62-6	60-100%
Other components below report	able levels		
4. First-aid measures			
Inhalation	Remove victim to fresh air and keep at rest in center or doctor/physician if you feel unwell.	n a position comfortable for brea	thing. Call a poison
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.		
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.		
Ingestion	Rinse mouth. Get medical attention if sympto	oms occur.	
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.		
Indication of 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.		
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.		
5. Fire-fighting measures			
Suitable extinguishing media	Water fog. Foam. Carbon dioxide (CO2). Dry be used for small fires only.	r chemical powder, carbon dioxic	le, sand or earth may
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.		
Specific hazards arising from the chemical	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.		
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full p	protective clothing must be worn	in case of fire.
Fire fighting equipment/instructions	In case of fire and/or explosion do not breath so without risk.	e fumes. Move containers from	fire area if you can do
Specific methods	Use standard firefighting procedures and cor	nsider the hazards of other involv	ved materials.
General fire hazards	Highly flammable liquid and vapor.		
6. Accidental release mea	sures		
Personal precautions.	Keep unnecessary personnel away. Keep pe	ople away from and upwind of s	pill/leak_Eliminate.all

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

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. For waste disposal, see section 13 of the SDS.	
Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.	
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. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. 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. Observe good industrial hygiene practices.	
Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. 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).	

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. OSHA Table Z-1 Permissible I Components	Type	Value	
Methyl Methacrylate (CAS 80-62-6)	PEL	410 mg/m3	
		100 ppm	
US. ACGIH Threshold Limit Value	s (TLV)		
Components	Туре	Value	
Methyl Methacrylate (CAS 80-62-6)	STEL	100 ppm	
	TWA	50 ppm	
NIOSH. Immediately Dangerous to	Life or Health (IDLH) Values	s, as amended	
Components	Туре	Value	
Methyl Methacrylate (CAS 80-62-6)	IDLH	1.7 %	
		1000 ppm	

Components	o Chemical Hazards Recommended Type	Value
Methyl Methacrylate (CAS 80-62-6)	TWA	410 mg/m3
		100 ppm
iological limit values	No biological exposure limits noted	for the ingredient(s).
ppropriate engineering ontrols	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.	
ndividual protection measures	, such as personal protective equipr	nent
Eye/face protection	Chemical respirator with organic vapor 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 vapor cartridge and full facepiece.	
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.	
eneral hygiene onsiderations	after handling the material and befo	observe good personal hygiene measures, such as washing re eating, drinking, and/or smoking. Routinely wash work o remove contaminants. Contaminated work clothing should not

9. Physical and chemical properties

e. I hydioar and chemiear	
Appearance	Paste.
Physical state	Liquid.
Form	Liquid.
Color	Yellow
Odor	Slight. Pungent
Odor threshold	Not available.
рН	4.5 - 5.5
Melting point/freezing point	-54.4 °F (-48 °C) estimated
Initial boiling point and boiling	213.8 °F (101 °C)
range	
Flash point	50.0 °F (10.0 °C)
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Explosive limit - lower (%)	2.1 % estimated
Explosive limit - upper (%)	8.2 % estimated
Vapor pressure	28 mm Hg
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	815 °F (435 °C) estimated
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	0.96 g/cm ³
Explosive properties	Not explosive.

Flammability class	Flammable IB estimated
Kinematic viscosity	0.042 - 0.073 m²/s
Oxidizing properties	Not oxidizing.
Specific gravity	0.96
VOC	<50 g/l Mixed components

10. Stability and reactivi	ity
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents. Nitrates. Peroxides.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

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Information on likely routes of exposure		
Inhalation	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	Causes serious eye irritation.	
Ingestion	Expected to be a low ingestion hazard.	
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.	

Information on toxicological effects

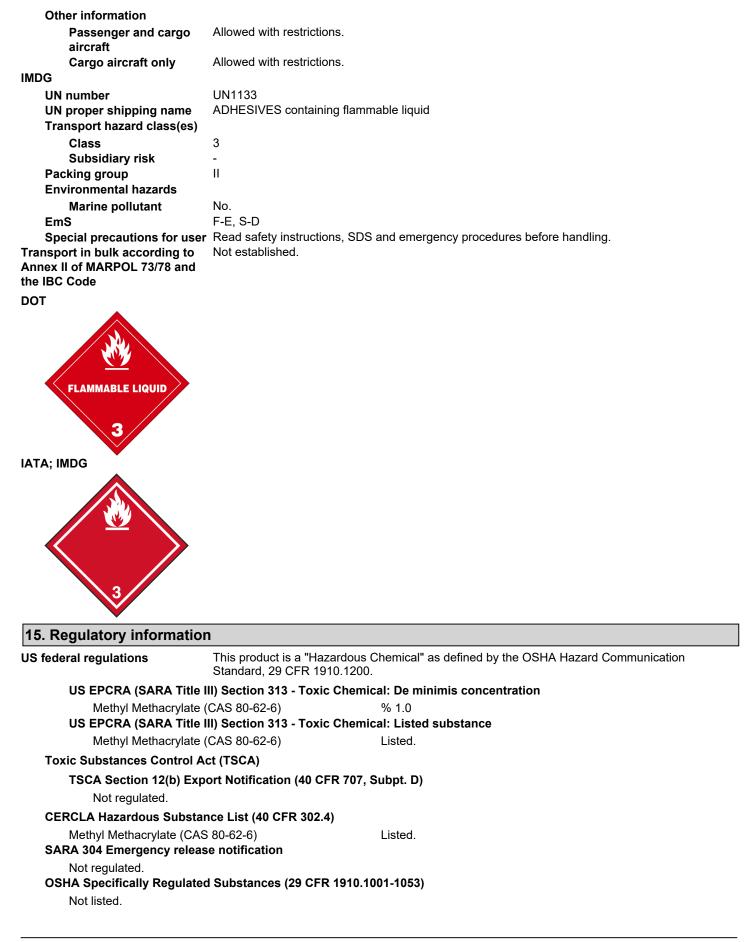
Acute toxicity	Not known.		
Components	Species	Test Results	
Methyl Methacrylate (CAS 80-62-6))		
Acute			
Oral			
LD50	Rat	7800 mg/kg	
Skin corrosion/irritation	Causes skin irritation.		
Serious eye damage/eye irritation	Causes serious eye irritation.		
Respiratory or skin sensitization ACGIH sensitization			
Methyl methacrylate (CAS	80-62-6)	Dermal sensitization	
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	May cause an allergic skin reaction.		
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	Not classifiable as to carcinogenicity to humans.		
IARC Monographs. Overall E	Evaluation of Carcinogenicity		
OSHA Specifically Regulated	Methyl Methacrylate (CAS 80-62-6) 3 Not classifiable as to carcinogenicity to humans. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)		
Not listed.			
Not listed.	gram (NTP) Report on Carcin	ogens	
Reproductive toxicity	This product is not expected to	o cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure	May cause respiratory irritation		

Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not an aspiration hazard.	
Chronic effects	Prolonged inhalation may be harmful.	
12. Ecological information	n	
Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.	
Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.	
Bioaccumulative potential		
Partition coefficient n-octan Methyl Methacrylate	nol / water (log Kow) 1.38	
Mobility in soil	No data available.	
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.	
13. Disposal consideratio	ns	
Disposal instructions	Dispose of this material and its container to hazardous or special waste collection point. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose of contents/container in accordance with local/regional/national/international regulations.	
Local disposal regulations	Dispose in accordance with all applicable regulations.	
Hazardous waste code	D001: Waste Flammable material with a flash point <140 F The waste code should be assigned in discussion between the user, the producer and the waste disposal company.	
Waste from residues / unused products	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.	

14. Transport information

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DO		
	UN number	UN1133
	UN proper shipping name	Adhesives, containing a flammable liquid
	Transport hazard class(es)	
	Class	3
	Subsidiary risk	-
	Label(s)	3
	Packing group	11
	Environmental hazards	
	Marine pollutant	No.
	Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
	Special provisions	149, B52, IB2, T4, TP1, TP8
	Packaging exceptions	150
	Packaging non bulk	173
	Packaging bulk	242
ΙΑΤ	A	
	UN number	UN1133
	UN proper shipping name	Adhesives containing flammable liquid
	Transport hazard class(es)	
	Class	3
	Subsidiary risk	-
	Packing group	II
	Environmental hazards	No.
	ERG Code	3L
	Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.



Superfund Amendments and R SARA 302 Extremely hazar	•	RA)		
Not listed.				
SARA 311/312 Hazardous chemical	Yes			
Classified hazard categories	Flammable (gases, aerosols, Skin corrosion or irritation Serious eye damage or eye ir Respiratory or skin sensitizati Specific target organ toxicity (Hazard not otherwise classifie	ritation on single or repeat	,	
SARA 313 (TRI reporting)			0/ h /	
Chemical name		S number	% by wt.	_
Methyl Methacrylate	80-	62-6	60-100%	
Other federal regulations				
	n 112 Hazardous Air Pollutant	s (HAPs) List		
	NS 80-62-6) n 112(r) Accidental Release Pr	evention (40 C	FR 68.130)	
Not regulated. Safe Drinking Water Act	Not regulated.			
(SDWA)	Not regulated.			
FEMA Priority Substan Methyl Methacrylate	ces Respiratory Health and Sa (CAS 80-62-6)	afety in the Flav Low priority	vor Manufacturing Work	blace
US state regulations				
(a))	Chemicals List. Safer Consume	er Products Reg	gulations (Cal. Code Reg	s, tit. 22, 69502.3, subd.
Methyl Methacrylate (CA	AS 80-62-6)			
is not known to contain a	Water and Toxic Enforcement A any chemicals currently listed as ww.P65Warnings.ca.gov.			
International Inventories				
Country(s) or region	Inventory name			On inventory (yes/no)*
Australia	Australian Inventory of Indust	rial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (D	SL)		Yes
Canada	Non-Domestic Substances Li	st (NDSL)		No
China	Inventory of Existing Chemica	al Substances in	China (IECSC)	Yes
Europe	European Inventory of Existin Substances (EINECS)	g Commercial C	Chemical	Yes
Europe	European List of Notified Che	mical Substance	es (ELINCS)	No
Japan	Inventory of Existing and New	/ Chemical Subs	stances (ENCS)	Yes
Korea	Existing Chemicals List (ECL))		Yes
New Zealand	New Zealand Inventory			Yes
Philippines	Philippine Inventory of Chemi (PICCS)	cals and Chemi	cal Substances	Yes

 (PICCS)

 Taiwan
 Taiwan Chemical Substance Inventory (TCSI)

 United States & Puerto Rico
 Toxic Substances Control Act (TSCA) Inventory

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision				
Issue date	07-24-2023			
Revision date	09-09-2023			
Version #	02			

Yes

Yes

HMIS® ratings	Health: 2 Flammability: 3 Physical hazard: 0
NFPA ratings	Health: 2 Flammability: 3 Instability: 0
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.