SAFETY DATA SHEET

Version #: 02 Issue date: 11-25-2021 Revision date: 01-16-2024 Supersedes date: 11-25-2021

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

	of the substance/mixture and of the company/undertaking
1.1. Product identifier Trade name or designation	PLEXUS® MA8105 Adhesive
of the mixture	
Registration number	-
Synonyms	None.
SKU#	81051 (EU)
1.2. Relevant identified uses of t	he substance or mixture and uses advised against
Identified uses	Not available.
Uses advised against	None known.
1.3. Details of the supplier of the	-
Company Name	ITW Performance Polymers
Address	Bay 150
	Shannon Industrial Estate Co. Clare
	Ireland
	V14 DF82
Contact Person	Customer Service
Telephone Number	353(61)771500
·	353(61)471285
Email	customerservice.shannon@itwpp.com
Emergency Phone Number	44(0) 1235 239 670 (24 hours)
1.4. Emergency telephone numb	ber de la constant de
General in EU	112 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Austria National Poisons Information Center	+431 406 4343 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Belgium National Poisons Control Center	070 245 245 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Bulgaria National Toxicological Information Center	+359 2 9154 233 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Croatia Poisons Information Center	+385 1 2348 342 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
Cyprus Poison Center	1401 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Czech Republic National Poisons Information Center	+420 224 919 293, or +420 224 915 402 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
Denmark National Poisons Control Center	+45 82 12 12 12 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Estonia National Poisons Information Center	16662 or abroad: (+372) 626 9390 (Monday 9:00AM to Saturday 9:00AM (closed on Sundays and on national holidays). SDS/Product information may not be available for the Emergency Service.)
Finland National Poison Information Center	(09) 471 977 (direct) or (09) 4711 (exchange) (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
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.)

1.4. Emergency telephone number				
Greece Poison Information Centre	(0030) 2107793777 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)			
Hungary National Emergency Phone Number	+36-80-201-199 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)			
Iceland Poison Center	(+354) 543 2222 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)			
Latvia Emergency medical aid	113			
Latvia Poison and Drug Information Center	+371 67042473 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)			
Lithuania Neatidėliotina informacija apsinuodijus	+370 5 236 20 52 or +37068753378 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)			
Malta Accident and Emergency Department	2545 4030 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)			
Netherlands National Poisons Information Center (NVIC)	NVIC: +31 (0)88 755 8000 (Only for the purpose of informing medical personnel in cases of acute intoxications)			
Norway Norwegian Poison Information Center	22 59 13 00 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)			
Portugal Poison Center	800 250 250 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)			
Romania Biroul RSI si Informare Toxicologica	021.318.36.06 (Available 8:00AM-3:00PM. SDS/Product information may not be available for the Emergency Service.)			
Slovakia National Toxicological Information Center	+421 2 5477 4166 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)			
Spain Toxicology Information Service	+ 34 91 562 04 20 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)			
Sweden National Poison Information Center	112 - and ask for Poison Information (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)			
Switzerland Tox Info Suisse	145 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)			

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

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

Physical hazards		
Flammable liquids	Category 2	H225 - Highly flammable liquid and vapor.
Health hazards		
Acute toxicity, inhalation	Category 4	H332 - Harmful if inhaled.
Skin corrosion/irritation	Category 1A	H314 - Causes severe skin burns and eye damage.
Serious eye damage/eye irritation	Category 1	H318 - Causes serious eye damage.
Skin sensitization	Category 1	H317 - May cause an allergic skin reaction.
Reproductive toxicity	Category 2	H361 - Suspected of damaging fertility or the unborn child.
Environmental hazards		
Hazardous to the aquatic environment, long-term aquatic hazard	Category 2	H411 - Toxic to aquatic life with long lasting effects.

2.2. Label elements

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

Austria: X435-A1W4-000J-AMXN Belgium: X435-A1W4-000J-AMXN Bulgaria: X435-A1W4-000J-AMXN Croatia: X435-A1W4-000J-AMXN Cyprus: X435-A1W4-000J-AMXN Czech Republic: X435-A1W4-000J-AMXN Denmark: X435-A1W4-000J-AMXN Estonia: X435-A1W4-000J-AMXN EU: X435-A1W4-000J-AMXN Finland: X435-A1W4-000J-AMXN France: X435-A1W4-000J-AMXN Germany: X435-A1W4-000J-AMXN Greece: X435-A1W4-000J-AMXN Hungary: X435-A1W4-000J-AMXN Iceland: X435-A1W4-000J-AMXN Ireland: X435-A1W4-000J-AMXN Italy: X435-A1W4-000J-AMXN Latvia: X435-A1W4-000J-AMXN Lithuania: X435-A1W4-000J-AMXN Luxembourg: X435-A1W4-000J-AMXN Malta: X435-A1W4-000J-AMXN Netherlands: X435-A1W4-000J-AMXN Northern Ireland: X435-A1W4-000J-AMXN Norway: X435-A1W4-000J-AMXN Poland: X435-A1W4-000J-AMXN Portugal: X435-A1W4-000J-AMXN Romania: X435-A1W4-000J-AMXN Slovakia: X435-A1W4-000J-AMXN Slovenia: X435-A1W4-000J-AMXN Spain: X435-A1W4-000J-AMXN Sweden: X435-A1W4-000J-AMXN

Contains:

Hazard pictograms

2-PHENOXYETHYL METHACRYLATE, maleic acid, methacrylic acid; 2-methylpropenoic acid, methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate, phosphoric acid ... %, orthophosphoric acid ... %



Signal word

Hazard statements

H225	Highly flammable liquid and vapor.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H361	Suspected of damaging fertility or the unborn child.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
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.
P260	Do not breathe dust or mists.
P261	Avoid breathing mist/vapors.
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.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
Response	

Danger

P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
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.
P310	Immediately call a POISON CENTER/doctor.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313	If skin irritation or rash occurs: 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.
P391	Collect spillage.
Storage	
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	35% of the mixture consists of component(s) of unknown acute oral toxicity. 71,81% of the mixture consists of component(s) of unknown acute dermal toxicity. 84,8% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 83,47% 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; methy 2-methylpropenoate	30 - < 40	80-62-6 201-297-1	01-2119452498-28-0000	607-035-00-6	#
Classifi	cation: Flam. Liq. 3;H335	2;H225, Skin Irrit. 2;H	H315, Skin Sens. 1;H317, S	TOT SE	
Specific Concentration	Limits: STOT SE 3	3;H335: C ≥ 10 %			
2-PHENOXYETHYL METHACRYLATE	5 - < 10	10595-06-9 234-201-1	-	-	
Classifi	cation: Repr. 2;H3	61			
methacrylic acid; 2-methylprop acid	enoic 5 - < 10	79-41-4 201-204-4	01-2119463884-26-0000	607-088-00-5	
	mg/kg bw), Dam. 1;H3	Acute Tox. 3;H331; 18, STOT SE 3;H33	ng/kg bw), Acute Tox. 4;H31 (ATE: 7,1 mg/l), Skin Corr. 1 5	2;(ATE: 1100 A;H314, Eye	
Specific Concentration	Limits: STOT SE 3	3;H335: C ≥ 1 %			
dodecyl methacrylate	3 - < 5	142-90-5 205-570-6	-	607-247-00-9	
		;H315, STOT SE 3;H	1335		
Specific Concentration	Limits: STOT SE 3	3;H335: C ≥ 10 %			
maleic acid	1 - < 3	110-16-7 203-742-5	-	607-095-00-3	
	mg/kg bw), SE 3;H335	Skin Irrit. 2;H315, E , Aquatic Chronic 2;I	ng/kg bw), Acute Tox. 4;H31 ye Irrit. 2;H319, Skin Sens. H411		
Specific Concentration	Limits: Skin Sens.	1;H317: C ≥ 0.1 %			
monoalkyl or monoaryl or monoalkyaryl esters of methac acid with the exception of thos specified elsewhere in this Anr	e	2495-27-4 219-672-3	-	607-134-00-4	
			319, STOT SE 3;H335		

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
phosphoric acid … %, orthophosphoric acid … %	< 1	7664-38-2 231-633-2	-	015-011-00-6	#
Classif			mg/kg bw), Acute Tox. 2;H3 14, Eye Dam. 1;H318	30;(ATE:	
Specific Concentration	Limits: Skin Corr.	1B;H314: C ≥ 25 %,	Skin Irrit. 2;H315: 10 % ≤ C rit. 2;H319: 10 % ≤ C < 25 %		
p-benzoquinone; quinone	< 0,2	106-51-4 203-405-2	-	606-013-00-3	
Classif	mg/l), Skir	n Irrit. 2;H315, Eye Irr	ng/kg bw), Acute Tox. 3;H33 it. 2;H319, STOT SE 3;H335 Chronic 1;H410(M=100)		
Other components below repo levels	ortable 40 - < 50				
List of abbreviations and symbo ATE: Acute toxicity estimate. M: M-factor vPvB: very persistent and very PBT: persistent, bioaccumulat #: This substance has been as All concentrations are in perce	/ bioaccumulative s ive and toxic subst ssigned Union work ent by weight unless	ubstance. ance. xplace exposure limit(s ingredient is a gas.	Gas concentrations are in pe	ercent by volume.	
Composition comments		I H-statements is disp			
SECTION 4: First aid mean					
General information	advice/attention. that medical pers	If you feel unwell, see onnel are aware of th	ediately. IF exposed or conc ek medical advice (show the e material(s) involved, and ta et to the doctor in attendanc	label where possil ake precautions to	ole). Ensure protect
4.1. Description of first aid meas					
Inhalation			rest in a position comfortab bison center or doctor/physic		
Skin contact	or poison control		iately and wash skin with so Chemical burns must be trea		
Eye contact	present and easy	to do. Continue rinsi	vater for at least 15 minutes. ng. Call a physician or poiso	n control center im	mediately.
Ingestion	vomiting occurs,	keep head low so tha	er immediately. Rinse mouth t stomach content doesn't ge	et into the lungs.	
4.2. Most important symptoms and effects, both acute and delayed		earing, redness, swe	n damage. Causes serious e lling, and blurred vision. Per		
4.3. Indication of any immediate medical attention and special treatment needed	immediately. Whi ambulance. Cont immediately. Whi ambulance. Cont	le flushing, remove cl inue flushing during ti le flushing, remove cl	and treat symptomatically. T othes which do not adhere to ansport to hospital. Chemica othes which do not adhere to ansport to hospital. Keep vice ed.	o affected area. Ca al burns: Flush wit o affected area. Ca	all an h water all an
SECTION 5: Firefighting measures					
General fire hazards	Highly flammable	liquid and vapor.			
5.1. Extinguishing media Suitable extinguishing media	Water fog. Foam.	Dry chemical powde	r. Carbon dioxide (CO2).		
Unsuitable extinguishing media	Do not use water	jet as an extinguishe	r, as this will spread the fire.		
5.2. Special hazards arising from the substance or mixture			ith air. Vapors may travel co gases hazardous to health m		e to a source
5.3. Advice for firefighters Special protective equipment for firefighters	Self-contained br	eathing apparatus an	d full protective clothing mus	st be worn in case	of fire.
Special fire fighting procedures	In case of fire and so without risk.	d/or explosion do not	breathe fumes. Move contai	ners from fire area	if you can do

SECTION 6: Accidental release measures

6.1. Personal precautions, prote	ctive 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.
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. Use personal protection recommended in 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	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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. Do not get in eyes, on skin, or on clothing. Avoid breathing mist/vapors. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Avoid release to the environment. 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 tons; Upper-tier requirements = 200 tons) E2 Hazardous to the Aquatic Environment Chronic (Lower-tier requirements = 200 tons; Upper-tier requirements = 500 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), BGBI. II, no. 184/2001, as amended Components Value				
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	МАК	70 mg/m3		
		20 ppm		
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	Ceiling	420 mg/m3		

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

Componente	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Tando	
		100 ppm	
	MAK	210 mg/m3	
		50 ppm	
p-benzoquinone; quinone (CAS 106-51-4)	Ceiling	0,4 mg/m3	
		0,1 ppm	
	MAK	0,4 mg/m3	
		0,1 ppm	
phosphoric acid … %, orthophosphoric acid … % (CAS 7664-38-2)	МАК	1 mg/m3	
	STEL	2 mg/m3	

Belgium. OEL. Exposure Limit Values to Chemical Substances at Work, Code of Well-being at work, Book VI, Title 1 - Chemical agents, as amended

Components	Туре	Value	Form
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	TWA	71 mg/m3	
		20 ppm	
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	
Paraffin Wax (CAS 8002-74-2)	TWA	2 mg/m3	Fume.
p-benzoquinone; quinone (CAS 106-51-4)	TWA	0,45 mg/m3	
		0,1 ppm	
phosphoric acid … %, orthophosphoric acid … % (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	

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

Components	Туре	Value	
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	TWA	70 mg/m3	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	100 ppm	
	TWA	50 ppm	
p-benzoquinone; quinone (CAS 106-51-4)	TWA	0,4 mg/m3	
phosphoric acid … %, orthophosphoric acid … % (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	
POLY(METHYL METHACRYLATE) (CAS 9011-14-7)	TWA	20 mg/m3	

Croatia. OELs (GVI). Regulation on Protection of Workers against Exposure to Dangerous Chemicals at Work, OELs and Biological Limit Values, Annex I (NN 91/2018), as amended

Components	Туре	Value	Form
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	MAC	72 mg/m3	
		20 ppm	
	STEL	143 mg/m3	
		40 ppm	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	MAC	50 ppm	
	STEL	100 ppm	
Paraffin Wax (CAS 8002-74-2)	MAC	2 mg/m3	Fume.
	STEL	6 mg/m3	Fume.
phosphoric acid … %, orthophosphoric acid … % (CAS 7664-38-2)	MAC	1 mg/m3	
	STEL	2 mg/m3	

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	
phosphoric acid … %, orthophosphoric acid … % (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	

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	
p-benzoquinone; quinone (CAS 106-51-4)	Ceiling	0,8 mg/m3	
	TWA	0,4 mg/m3	
phosphoric acid … %, orthophosphoric acid … % (CAS 7664-38-2)	Ceiling	2 mg/m3	
	TWA	1 mg/m3	

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

Components	гуре	value Folili
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	STEL	140 mg/m3
		40 ppm
	TLV	70 mg/m3
		20 ppm
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	TLV	102 mg/m3

Denmark. Work Environment Auth Components	Туре	Value	Form
		25 ppm	
Paraffin Wax (CAS 3002-74-2)	STEL	4 mg/m3	Fume.
	TLV	2 mg/m3	Fume.
o-benzoquinone; quinone CAS 106-51-4)	STEL	0,8 mg/m3	
		0,2 ppm	
	TLV	0,4 mg/m3	
		0,1 ppm	
phosphoric acid … %, orthophosphoric acid … % CAS 7664-38-2)	STEL	2 mg/m3	
0, 10, 100, 100, 27	TLV	1 mg/m3	
Estonia. OELs. Occupational Expo Components		C C	/2001, Annex), as amended Form
nethacrylic acid; 2-methylpropenoic acid CAS 79-41-4)	STEL	100 mg/m3	
,		30 ppm	
	TWA	70 mg/m3	
		20 ppm	
nethyl methacrylate; methyl	STEL	100 ppm	
2-methylprop-2-enoate; nethyl 2-methylpropenoate CAS 80-62-6)			
	TWA	50 ppm	
Paraffin Wax (CAS 8002-74-2)	TWA	2 mg/m3	Vapor.
o-benzoquinone; quinone CAS 106-51-4)	STEL	1,3 mg/m3	
		0,3 ppm	
	TWA	0,4 mg/m3	
		0,1 ppm	
ohosphoric acid … %, orthophosphoric acid … % (CAS 7664-38-2)	STEL	2 mg/m3	Vapor.
0.00 100 - 00 - 2)	TWA	1 mg/m3	Vapor.
Finland. HTP-arvot, App 3., Bindin Components		-	Form
nethacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	TWA	71 mg/m3	
		20 ppm	
nethyl methacrylate; methyl 2-methylprop-2-enoate; nethyl 2-methylpropenoate CAS 80-62-6)	STEL	210 mg/m3	
0, 00 00 02 07		50 ppm	
	TWA	42 mg/m3	
		-	
Paraffin Wax (CAS	TWA	10 ppm 1 mg/m3	Fume.
3002-74-2) o-benzoquinone; quinone CAS 106-51-4)	STEL	1,3 mg/m3	
		0.3 ppm	

0,3 ppm 0,45 mg/m3

TWA

Finland. HTP-arvot, App Components	3., Binding Limit	Values, Social Affairs Type	s and Ministry of Health Value	Form
			0,1 ppm	
phosphoric acid … %, prthophosphoric acid … % CAS 7664-38-2))	STEL	2 mg/m3	
		TWA	1 mg/m3	
France. OELs. Indicative Components	Occupational Ex	posure Limits as Pre Type	scribed by Order of 30 June 20 Value	04, as amended
phosphoric acid … %, orthophosphoric acid … % CAS 7664-38-2))	VLE	2 mg/m3	
			0,5 ppm	
		VME	1 mg/m3	
			0,2 ppm	
France. OELs. Occupatio	onal Exposure Lir	nits as Prescribed by Type	v Art. R.4412-149 of Labor Code Value	, as amended
nethyl methacrylate; meth 2-methylprop-2-enoate; nethyl 2-methylpropenoat CAS 80-62-6)		VLE	410 mg/m3	
,			100 ppm	
		VME	205 mg/m3	
			50 ppm	
France. Threshold Limit Components	Values (VLEP) fo	r Occupational Expos Type	sure to Chemicals in France, IN Value	RS ED 984 Form
methacrylic acid;		VME	70 mg/m3	
2-methylpropenoic acid CAS 79-41-4)			70 mg/mo	
Regulatory status:	Indicative limit (V	L)		
			20 ppm	
Regulatory status:	Indicative limit (V	•		
nethyl methacrylate; meth 2-methylprop-2-enoate; nethyl 2-methylpropenoat CAS 80-62-6)	-	VLE	410 mg/m3	
Regulatory status:	Regulatory bindir	ng (VRC)		
			100 ppm	
Regulatory status:	Regulatory bindir	2 , ,		
		VME	205 mg/m3	
Regulatory status:	Regulatory bindir	ng (VRC)		
			50 ppm	
Regulatory status:	Regulatory bindir			_
Paraffin Wax (CAS 3002-74-2)		VME	2 mg/m3	Fume.
Regulatory status:	Indicative limit (V	L)		
b-benzoquinone; quinone	()	VLE	1,5 mg/m3	
CAS 106-51-4)				
Regulatory status:	Indicative limit (V	L)		
_	, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,		0,3 ppm	
Regulatory status:	Indicative limit (V	•		
Demulatement of	Indianting limit ()	VME	0,4 mg/m3	
Regulatory status:	Indicative limit (V	L)	0.1	
Demulatement of	Indianting limit ()	1.)	0,1 ppm	
Regulatory status:	Indicative limit (V	L)		

France. Threshold Limit Components	Values (VLEP) for Occupational Exposu Type	re to Chemicals in France, INRS ED 98 Value Form	
phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	VLE	2 mg/m3	
Regulatory status:	Regulatory indicative (VRI)		
		0,5 ppm	
Regulatory status:	Regulatory indicative (VRI)		
	VME	1 mg/m3	
Regulatory status:	Regulatory indicative (VRI)		
		0,2 ppm	
Regulatory status:	Regulatory indicative (VRI)		
Germany DEG MAK List	(advisory OELs) Commission for the lu	nvestigation of Health Hazards of Chen	nical Compounds

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG), as updated V-1 E _

Components	Туре	Value	Form
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	TWA	180 mg/m3	
		50 ppm	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	TWA	210 mg/m3	
		50 ppm	
phosphoric acid … %, orthophosphoric acid … % (CAS 7664-38-2)	TWA	2 mg/m3	Inhalable fraction.
Germany. TRGS 900, Limit Values Components	in the Ambient Air at the Workplace Type	Value	Form
-			
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	AGW	180 mg/m3	
		50 ppm	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	AGW	210 mg/m3	
		50 ppm	
phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	AGW	2 mg/m3	Inhalable fraction.
Greece. OELs, Presidential Decree	e No. 307/1986, as amended		
Components	Туре	Value	Form
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	STEL	140 mg/m3	
		40 ppm	
	TWA	70 mg/m3	
		20 ppm	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	100 ppm	
	TWA	50 ppm	
Paraffin Wax (CAS 8002-74-2)	STEL	6 mg/m3	Fume.
	TWA	2 mg/m3	Fume.
p-benzoquinone; quinone (CAS 106-51-4)	STEL	1,5 mg/m3	
		0,3 ppm	

Greece. OELs, Presidential Decree No. 307/1986, as amended

Components	Туре	Value Form	
	TWA	0,4 mg/m3	
		0,1 ppm	
phosphoric acid … %, orthophosphoric acid … % (CAS 7664-38-2)	STEL	3 mg/m3	
	TWA	1 mg/m3	

Hungary. OELs. Decree on protection of workers exposed to chemical agents (5/2020. (II.6)), Annex 1&2, as amended

Components	Гуре	value	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	415 mg/m3	
	TWA	208 mg/m3	
phosphoric acid … %, orthophosphoric acid … % (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	

Iceland. OELs. Regulation 390/2009 on Pollution Limits and Measures to Reduce Pollution at the Workplace, as amended Components Type Value Form

components	туре	Value	1 onn
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	TWA	70 mg/m3	
		20 ppm	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	100 ppm	
	TWA	50 ppm	
Paraffin Wax (CAS 8002-74-2)	TWA	2 mg/m3	Fume.
p-benzoquinone; quinone (CAS 106-51-4)	TWA	0,4 mg/m3	
		0,1 ppm	
phosphoric acid … %, orthophosphoric acid … % (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	

Ireland. OELVs, Schedules 1 & 2, Code of Practice for Chemical Agents and Carcinogens Regulations

Components	Гуре	value	Form	
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	STEL	140 mg/m3		
		40 ppm		
	TWA	70 mg/m3		
		20 ppm		
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	100 ppm		
	TWA	50 ppm		
Paraffin Wax (CAS 8002-74-2)	STEL	6 mg/m3	Fume.	
	TWA	2 mg/m3	Fume.	
p-benzoquinone; quinone (CAS 106-51-4)	TWA	0,4 mg/m3		
		0,1 ppm		

Components	Code of Practice for Chemical Type	Value	Form
phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	
Italy. OELs (Legislative Decree n.8	1, 9 April 2008), as amended		
Components	Туре	Value	Form
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	TWA	20 ppm	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	100 ppm	
	TWA	50 ppm	
Paraffin Wax (CAS 8002-74-2)	TWA	2 mg/m3	Fume.
p-benzoquinone; quinone (CAS 106-51-4)	TWA	0,1 ppm	
phosphoric acid … %, orthophosphoric acid … % (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	

Latvia. OELs. Occupational Exposure Limits of Chemical Substances at Workplace (Reg. No. 325/ 2007, L.V. 80, Annex 1), as amended

Components	Туре	Value	
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	TWA	10 mg/m3	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	TWA	10 mg/m3	
p-benzoquinone; quinone (CAS 106-51-4)	TWA	0,05 mg/m3	
phosphoric acid … %, orthophosphoric acid … % (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	

Lithuania. OELs. Occupational Exposure Limit Values for Chemical Substances (Hygiene Norm HN 23:2011; Order No. V-824/A1-389), as amended

Components	Туре	Value	
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	STEL	100 mg/m3	
		30 ppm	
	TWA	70 mg/m3	
		20 ppm	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	400 mg/m3	
		100 ppm	
	TWA	200 mg/m3	
		50 ppm	
p-benzoquinone; quinone (CAS 106-51-4)	STEL	1,3 mg/m3	
		0,3 ppm	
	TWA	0,4 mg/m3	
		0,1 ppm	

Lithuania. OELs. Occupational Exposure Limit Values for Chemical Substances (Hygiene Norm HN 23:2011; Order No. V-824/A1-389), as amended

Components	Туре	Value	
phosphoric acid … %, orthophosphoric acid … % (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	

Luxembourg. OELs. Binding Occupational Exposure Limit Values (Annex I), G.D.R. of 14 November 2016, OJ Memorial A, n ° 235/2016, as amended

Components	Туре	Value	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	100 ppm	
	TWA	50 ppm	
phosphoric acid … %, orthophosphoric acid … % (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	

Malta. OELs. Protection of Health and Safety of Workers from Risks related to Chemical Agents at Work (L.N 227/2003 Schedules I and V), as amended

Components	Туре	Value	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	100 ppm	
	TWA	50 ppm	
phosphoric acid … %, orthophosphoric acid … % (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	

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	
phosphoric acid … %, orthophosphoric acid … % (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 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 Form
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	TLV	70 mg/m3
		20 ppm
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
Paraffin Wax (CAS 8002-74-2)	TLV	2 mg/m3 Fume.
p-benzoquinone; quinone (CAS 106-51-4)	TLV	0,4 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 Form Components Type Value

·	<i>,</i>		
		0,1 ppm	
phosphoric acid … %, orthophosphoric acid … %	TLV	1 mg/m3	

(CAS 7664-38-2)

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

Components	Туре	Value	Form
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	300 mg/m3	
	TWA	100 mg/m3	
Paraffin Wax (CAS 8002-74-2)	TWA	2 mg/m3	Inhalable fraction.
p-benzoquinone; quinone (CAS 106-51-4)	STEL	0,4 mg/m3	
	TWA	0,1 mg/m3	
phosphoric acid … %, orthophosphoric acid … % (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	

ro Limit Values Ann ortugal De Jaw No. 24/2012 Occupational Expos bobnome ae II vo

Components	Туре	Value	
phosphoric acid … %, orthophosphoric acid … % (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	
Portugal. VLEs. Norm on occupati	onal exposure to chemical ag	gents (NP 1796-2014)	
Components	Туре	Value	Form
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	TWA	20 ppm	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	100 ppm	
	TWA	50 ppm	
Paraffin Wax (CAS 8002-74-2)	TWA	2 mg/m3	Fume.
p-benzoquinone; quinone (CAS 106-51-4)	TWA	0,1 ppm	
phosphoric acid … %, orthophosphoric acid … % (CAS 7664-38-2)	STEL	3 mg/m3	
	TWA	1 mg/m3	

Romania. OELs. Limit Values of Chemical Agents at Workplace (Regulation 1.218/2006, M.O 845, Annex 1, 3&4, as amended)

Components	Туре	Value Form	
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	STEL	45 mg/m3	
		13 ppm	
	TWA	30 mg/m3	
		8,5 ppm	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	410 mg/m3	

Romania. OELs. Limit Values of Chemical Agents at Workplace (Regulation 1.218/2006, M.O 845, Annex 1, 3&4, as amended)

Components	Туре	Value	Form
		100 ppm	
	TWA	205 mg/m3	
		50 ppm	
Paraffin Wax (CAS 8002-74-2)	STEL	6 mg/m3	Fume.
	TWA	2 mg/m3	Fume.
p-benzoquinone; quinone (CAS 106-51-4)	STEL	0,4 mg/m3	
	TWA	0,3 mg/m3	
phosphoric acid … %, orthophosphoric acid … % (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	

Slovakia. OELs. Maximum permissible exposure limits for chemical factors in workplace air (Regulation No 355/2006, Annex 1, Table 1, as amended)

Components	Туре	Value	Form
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	100 ppm	
	TWA	50 ppm	
Paraffin Wax (CAS 8002-74-2)	STEL	6 mg/m3	Fume.
	TWA	2 mg/m3	Fume.
p-benzoquinone; quinone (CAS 106-51-4)	TWA	0,4 mg/m3	
		0,1 ppm	
phosphoric acid … %, orthophosphoric acid … % (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	

Slovenia. OELs. Occupational Exposure Limits of Chemicals at Workplace (Reg. on Protection of Workers from Risks due to Exp. to Chemicals at Work, Ann. I 100/2001), as amended

Components	Туре	Value	
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	KTV	360 mg/m3	
		100 ppm	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	KTV	420 mg/m3	
		100 ppm	
phosphoric acid … %, orthophosphoric acid … % (CAS 7664-38-2)	KTV	2 mg/m3	

Slovenia. OELs. Occupational Exposure Limits of Chemicals at Workplace (Reg. on Protection of Workers from Risks due to Exp. to Chemicals at Work, Annex I), as amended

Components	Туре	Value	
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	TWA	180 mg/m3	
		50 ppm	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	TWA	210 mg/m3	
		50 ppm	

Slovenia. OELs. Occupational Exposure Limits of Chemicals at Workplace (Reg. on Protection of Workers from Risks due to Exp. to Chemicals at Work, Annex I), as amended		
Components	Туре	Value
phosphoric acid … %, orthophosphoric acid … % (CAS 7664-38-2)	TWA	1 mg/m3

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

Components	Туре	Value	Form
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	TWA	72 mg/m3	
		20 ppm	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	100 ppm	
	TWA	50 ppm	
Paraffin Wax (CAS 8002-74-2)	TWA	2 mg/m3	Fume.
p-benzoquinone; quinone (CAS 106-51-4)	TWA	0,45 mg/m3	
		0,1 ppm	
phosphoric acid … %, orthophosphoric acid … % (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	

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

Components	Туре	Value	
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	STEL	100 mg/m3	
		30 ppm	
	TWA	70 mg/m3	
		20 ppm	
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	
p-benzoquinone; quinone (CAS 106-51-4)	STEL	1,3 mg/m3	
		0,3 ppm	
	TWA	0,4 mg/m3	
		0,1 ppm	
phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	Ceiling	2 mg/m3	
	TWA	1 mg/m3	
Switzerland. SUVA Grenzwerte am	Arbeitsplatz: Aktuelle MAK-Werte		
Components	Туре	Value Form	
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	STEL	360 mg/m3	
		100 ppm	
	TWA	180 mg/m3	

Components	erte am Arbeitsplatz: Aktuelle MAK-Werte Type	Value	Form
		50 ppm	
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	
Paraffin Wax (CAS 8002-74-2)	TWA	2 mg/m3	Respirable fume.
p-benzoquinone; quinone (CAS 106-51-4)	STEL	0,4 mg/m3	
		0,1 ppm	
	TWA	0,4 mg/m3	
		0,1 ppm	
phosphoric acid … %, orthophosphoric acid … % (CAS 7664-38-2)	STEL	4 mg/m3	Inhalable fraction.
· · ·	TWA	2 mg/m3	Inhalable fraction.
UK. OELs. Workplace Expo Components	sure Limits (WELs) (EH40/2005 (Fourth Editio Type	on 2020)), Table 1 Value	Form
methacrylic acid;	STEL	143 mg/m3	
2-methylpropenoic acid (CAS 79-41-4)			
		40 ppm	
	TWA	72 mg/m3	
		20 ppm	
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	
Paraffin Wax (CAS 8002-74-2)	STEL	6 mg/m3	Fume.
	TWA	2 mg/m3	Fume.
phosphoric acid … %, orthophosphoric acid … % (CAS 7664-38-2)	STEL	2 mg/m3	
. ,	TWA	1 mg/m3	
EU. Indicative Exposure Lin	nit Values in Directives 91/322/EEC, 2000/39/	EC, 2006/15/EC, 2009	/161/EU, 2017/164/EU
Components	Туре	Value	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	100 ppm	
. ,	TWA	50 ppm	
phosphoric acid … %, orthophosphoric acid … % (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	
ogical limit values	No biological exposure limits noted for the ing	redient(s).	
ommended monitoring edures	Follow standard monitoring procedures.		

Derived no effect levels Not available. (DNELs)

Croata ELVs: Skin designation Can be absorbed through the skin. methyl methacrylate; methyl 2-methylprop-2-enoate; methyl methacrylate; methyl 2-methylpropenoate (CAS 80-62-6) Can be absorbed through the skin. Denmark GV: Skin designation Can be absorbed through the skin. methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) Can be absorbed through the skin. Hungary OELs: Skin designation Can be absorbed through the skin. methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylprop-2-enoate; Can be absorbed through the skin. Can be absorbed through the skin. methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylprop-2-enoate; Can be absorbed through the skin. Science (CAS 80-62-6) Iceland OELs: Skin designation Can be absorbed through the skin. methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) Can be absorbed through the skin. Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia) Can be absorbed through the skin. sciptable cost. Expension protection of workers against risks due to exposure to chemicals while working exposure initis. If exposure limits have not been established, use process enclosures, local exposure limits. If exposure limits have not been established, use process enclosures, local exposure limits. If exposure limits have not been established, manitain airborne levels below re	Predicted no effect concentrations (PNECs)	Not available.			
methyl methacylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) Can be absorbed through the skin. methyl methacylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) Can be absorbed through the skin. methyl methacylate; methyl 2-methylprop-2-enoate; methyl methacylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) Can be absorbed through the skin. Image: Construct and the state of the stat	Exposure guidelines				
methyl 2-methylpropenoate (CAS 80-62-6) Denmark GV: Skin designation methyl 2-methylpropenoate (CAS 80-62-6) Can be absorbed through the skin. methyl 2-methylpropenoate (CAS 80-62-6) Iceland OELs: Skin designation methyl 2-methylpropenoate (CAS 80-62-6) Can be absorbed through the skin. methyl 2-methylpropenoate (CAS 80-62-6) Slovenia. OELs: Skin designation methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) Slovenia. OELs. Skin designation methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) Slovenia. OELs. Skin designation methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) Slovenia. OELs. Skin designation methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4) Can be absorbed through the skin. 3.2. Exposure controls Appropriate engineering controls Appropriate engineering controls Appropriate engineering controls Can be absorbed through the skin. 3.2. Exposure controls Appropriate engineering Controls Appropriate engineering Controls Case acceptable level. Eye wash facilities and emergency shower must be available when handling this product. methyl 2-methylpropenoid cid CAS 79-41-4) Can be absorbed through the skin. 3.2. Exposure controls Can be absorbed through the skin. 3.2. Exposure limits. If applicable, use process enclosures, local exposure limits. If applicable, use prosonal protective equipment or controls on the correling and protective equipment to corrol the process equipment. Eye/face protection - Hand protection Thermal hazards Wear appropriate chemical resistant cl	Croatia ELVs: Skin design	Croatia ELVs: Skin designation			
methyl 2-methylpropenoatic (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 2-methylpropenoate (CAS 80-62-6) Slovenia. OELs. Skin designation methyl 2-methylpropenoate (CAS 80-62-6) Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia) methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4) Can be absorbed through the skin. 2.5. Exposure 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. Eye wash facilities and emergency shower must be available when handling this product. ndividual protection measures, such as personal protective equipment General information Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. Eye/face protection Chemical respirator with organic vapor cartridge and full facepiece. Skin protection Wear appropriate chemical resista	methyl 2-methylpropend	pate (CAS 80-62-6)	Can be absorbed through the skin.		
methyl 2-methylpropenoate (CAS 80-62-6) Iceland OELs: Skin designation methyl methacrylate; methyl 2-methylprop-2-enoate; Can be absorbed through the skin. methyl 2-methylpropenoate (CAS 80-62-6) Slovenia. Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia) methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4) Can be absorbed through the skin. 8.2. Exposure controls Appropriate engineering Spontrols 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. Eye wash facilities and emergency shower must be available when handling this product. Individual protection measures, such as personal protective equipment Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. Eye/face protection Chemical respirator with organic vapor cartridge and full facepiece. Skin protection - Ather appropriate chemical resistant gloves. - Other Wear appropriate chemical resistant cl	methyl 2-methylpropend	oate (CAS 80-62-6)	Can be absorbed through the skin.		
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SECTION 9: Physical and chemical properties	Environmental exposure controls	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			
	SECTION 9: Physical and	d chemical properties			

9.1. Information on basic physical and chemical properties		
Physical state	Liquid.	
Form	Liquid.	
Color	Not available.	
Odor	Not available.	
Melting point/freezing point	-54,4 °F (-48 °C) estimated	
Boiling point or initial boiling point and boiling range	212,9 °F (100,5 °C) estimated	
Flammability	Not applicable.	
Upper/lower flammability or expl	osive limits	
Explosive limit - lower (%)	2,1 % estimated	
Explosive limit - upper (%)	8,2 % estimated	
Flash point	50,0 °F (10,0 °C) estimated	
Auto-ignition temperature	752 °F (400 °C) estimated	

Decomposition temperature	Not available.		
рН	Not available.		
Kinematic viscosity	Not available.		
Solubility			
Solubility (water)	Not available.		
Partition coefficient (n-octanol/water) (log value)	Not available.		
Vapor pressure	37,7 hPa estimated		
Density and/or relative density			
Density	0,98 g/cm3 estimated	0,98 g/cm3 estimated	
Vapor density	Not available.		
Particle characteristics	Not available.		
9.2. Other information			
9.2.1. Information with regard to physical hazard classes	No relevant additional information	available.	
9.2.2. Other safety characteristi	cs		
Specific gravity	0,98 estimated		
SECTION 10: Stability an	d reactivity		
10.1. Reactivity	The product is stable and non-rea	ctive under normal conditions of use, storage and transport.	
10.2. Chemical stability	Material is stable under normal co	nditions.	
10.3. Possibility of hazardous reactions	No dangerous reaction known und	ler 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 oxidizing agents. Nitrates.	Peroxides.	
10.6. Hazardous	No hazardous decomposition proc	lucts are known.	
decomposition products			
SECTION 11: Toxicologic	al information		
General information	Occupational exposure to the sub	stance or mixture may cause adverse effects.	
Information on likely routes of e	exposure		
Inhalation	Harmful if inhaled.		
Skin contact	Causes severe skin burns. May ca	ause an allergic skin reaction.	
Eye contact	Causes serious eye damage.		
Ingestion	Causes digestive tract burns.		
Symptoms		e skin damage. Causes serious eye damage. Symptoms may swelling, and blurred vision. Permanent eye damage including	
11.1. Information on hazard class	sses as defined in Regulation (EC)	No 1272/2008	
Acute toxicity	Harmful if inhaled.		
Components	Species	Test Results	
dodecyl methacrylate (CAS 142-9	-		
Acute	,		
Dermal			
LD50	Rabbit	> 3 g/kg	
Oral			
LD50	Rat	> 5 g/kg	
maleic acid (CAS 110-16-7)			
Acute			
Dermal			
LD50	Rabbit	1560 mg/kg	
methacrylic acid; 2-methylpropeno	oic acid (CAS 79-41-4)		
Inhalation			
	_		
LC50	Rat	7,1 mg/l, 4 Hours	

vlprop-2-enoate; methyl 2-meth Rat ric acid % (CAS 7664-38-2) Rabbit Rabbit Rat	7800 mg/kg
ric acid % (CAS 7664-38-2) Rabbit Rabbit) 2740 mg/kg
ric acid % (CAS 7664-38-2) Rabbit Rabbit) 2740 mg/kg
ric acid % (CAS 7664-38-2) Rabbit Rabbit) 2740 mg/kg
Rabbit Rabbit	2740 mg/kg
Rabbit	
Rabbit	
Rabbit	
	1,689 mg/l, 1 Hours
	1,689 mg/l, 1 Hours
Rat	
Rat	
	1530 mg/kg
Causes severe skin burns and	eve damage
n/irritation Causes severe skin burns and eye damage. amage/eye Causes serious eye damage.	
Causes senous eye damage.	
Due to partial or complete lack	of data the classification is not possible.
	of data the classification is not possible.
	·
arcinogenicity Due to partial or complete lack of data the classification is not possible.	
	3 Not classifiable as to carcinogenicity to humans.
	3 Not classifiable as to carcinogenicity to humans.
Suspected of damaging fertility	
Not applicable.	
Not applicable.	
Due to partial or complete lack of data the classification is not possible.	
No information available.	
5	
to human health as assessed i	any substances having endocrine disrupting properties with respect in accordance with the criteria set out in Regulations (EC) No 0 and (EU) 2018/605, at a concentration equal to or greater than
Not available.	
formation	
Toxic to aquatic life with long lasting effects. Based on available data, the classification criteria are not met for hazardous to the aquatic environment, acute hazard.	
No data is available on the deg	gradability of any ingredients in the mixture.
	6,45
,	-0,48
noic acid nethylprop-2-enoate; methyl	0,93 1,38
alkyaryl esters of methacrylic specified elsewhere in this	8,64
	0,2
	V, C
Not available.	0,2
	May cause an allergic skin real Due to partial or complete lack valuation of Carcinogenicity (1 2-methylprop-2-enoate; (CAS 80-62-6) CAS 106-51-4) Suspected of damaging fertility Not applicable. Not applicable. Due to partial or complete lack No information available. S This mixture does not contain a to human health as assessed i 1907/2006, (EU) No 2017/2100 0.1% by weight. Not available. formation Toxic to aquatic life with long la not met for hazardous to the act No data is available on the deg

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.
12.8. Additional information	

Estonia Dangerous substances in soil Data

MG/KG	KG al pesticides (As the total sum of the active substances) 20 al pesticides (As the total sum of the active substances) 5
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SECTION 13: Disposal considerations

13.1. Waste treatment methods	
Residual waste	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow 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	UN2924
	14.2. UN proper shipping	FLAMMABLE LIQUID, CORROSIVE, N.O.S.
	name	
	14.3. Transport hazard class(es)	
	Class	3
	Subsidiary hazard	8
	Label(s)	3
		+8
	Hazard No. (ADR)	338
	Tunnel restriction code	D/E
	14.4. Packing group	11
	14.5. Environmental hazards	No.
	14.6. Special precautions	Read safety instructions, SDS and emergency procedures before handling.
	for user	
RID		
	14.1. UN number	UN2924
	14.2. UN proper shipping	FLAMMABLE LIQUID, CORROSIVE, N.O.S.
	name	
	14.3. Transport hazard class(es)	
	Class	3
	Subsidiary hazard	8
	Label(s)	3+8
	14.4. Packing group	II
	14.5. Environmental hazards	No.
	14.6. Special precautions	Read safety instructions, SDS and emergency procedures before handling.
	for user	
AD	N	
	14.1. UN number	UN2924
	14.2. UN proper shipping	FLAMMABLE LIQUID, CORROSIVE, N.O.S.
	name	

14.3. Transport hazard class	14.3. Transport hazard class(es)	
Class	3	
Subsidiary hazard	8	
Label(s)	3+8	
14.4. Packing group	II	
14.5. Environmental hazards	No.	
14.6. Special precautions	Read safety instructions, SDS and emergency procedures before handling.	
for user		
ΙΑΤΑ		
14.1. UN number	UN2924	
14.2. UN proper shipping	Flammable liquid, corrosive, n.o.s. (methyl methacrylate; methyl 2-methylprop-2-enoate; methyl	
name	2-methylpropenoate, methacrylic acid; 2-methylpropenoic acid)	
14.3. Transport hazard class	(es)	
Class	3	
Subsidiary hazard	8	
14.4. Packing group	II	
14.5. Environmental hazards	No.	
ERG Code	3CH	
14.6. Special precautions	Read safety instructions, SDS and emergency procedures before handling.	
for user		
Other information		
Passenger and cargo	Allowed with restrictions.	
aircraft		
Cargo aircraft only	Allowed with restrictions.	
IMDG		
14.1. UN number	UN2924	
14.2. UN proper shipping	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (methyl methacrylate; methyl	
name	2-methylprop-2-enoate; methyl 2-methylpropenoate, methacrylic acid; 2-methylpropenoic acid)	
14.3. Transport hazard class	14.3. Transport hazard class(es)	
Class	3	
Subsidiary hazard	8	
14.4. Packing group	II	
14.5. Environmental hazards		
Marine pollutant	No.	
EmS	F-E, S-C	
14.6. Special precautions	Read safety instructions, SDS and emergency procedures before handling.	
for user	Not established	
14.7. Maritime transport in bulk according to IMO instruments	Not established.	
ADN; ADR; IATA; IMDG; RID		

A э; К



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: X435-A1W4-000J-AMXN Belgium: X435-A1W4-000J-AMXN Bulgaria: X435-A1W4-000J-AMXN Croatia: X435-A1W4-000J-AMXN Cyprus: X435-A1W4-000J-AMXN Czech Republic: X435-A1W4-000J-AMXN Denmark: X435-A1W4-000J-AMXN Estonia: X435-A1W4-000J-AMXN EU: X435-A1W4-000J-AMXN Finland: X435-A1W4-000J-AMXN France: X435-A1W4-000J-AMXN Germany: X435-A1W4-000J-AMXN Greece: X435-A1W4-000J-AMXN Hungary: X435-A1W4-000J-AMXN Iceland: X435-A1W4-000J-AMXN Ireland: X435-A1W4-000J-AMXN Italy: X435-A1W4-000J-AMXN Latvia: X435-A1W4-000J-AMXN Lithuania: X435-A1W4-000J-AMXN Luxembourg: X435-A1W4-000J-AMXN Malta: X435-A1W4-000J-AMXN Netherlands: X435-A1W4-000J-AMXN Northern Ireland: X435-A1W4-000J-AMXN Norway: X435-A1W4-000J-AMXN Poland: X435-A1W4-000J-AMXN Portugal: X435-A1W4-000J-AMXN Romania: X435-A1W4-000J-AMXN Slovakia: X435-A1W4-000J-AMXN Slovenia: X435-A1W4-000J-AMXN Spain: X435-A1W4-000J-AMXN Sweden: X435-A1W4-000J-AMXN

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.

Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex I, as amended Not listed.

Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex II, 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

- E2 Hazardous to the Aquatic Environment Chronic

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

According to Directive 92/85/EEC as amended, pregnant women should not work with the product, if there is the least risk of exposure.

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. 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 national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

Lésions eczématiformes de mécanisme allergique 65

Lésions eczématiformes de mécanisme allergique 65

Affections provoquées par le méthacrylate de méthyle 82

France regulations

France INRS Table of Occupational Diseases

dodecyl methacrylate (CAS 142-90-5) methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) monoalkyl or monoaryl or monoalkyaryl esters of methacrylic acid with the exception of those specified elsewhere in this Annex (CAS 2495-27-4)

Product registration number

	Austria	UFI: X435-A1W4-000J-AMXN
	Belgium	UFI: X435-A1W4-000J-AMXN
	Czech Republic	UFI: X435-A1W4-000J-AMXN
	Denmark	UFI: X435-A1W4-000J-AMXN
	European Union	UFI: X435-A1W4-000J-AMXN
	Finland	UFI: X435-A1W4-000J-AMXN
	France	UFI: X435-A1W4-000J-AMXN
	Germany	UFI: X435-A1W4-000J-AMXN
	Greece	UFI: X435-A1W4-000J-AMXN
	Hungary	UFI: X435-A1W4-000J-AMXN
	Italy	UFI: X435-A1W4-000J-AMXN
	Netherlands	UFI: X435-A1W4-000J-AMXN
	Norway	UFI: X435-A1W4-000J-AMXN
	Poland	UFI: X435-A1W4-000J-AMXN
	Portugal	UFI: X435-A1W4-000J-AMXN
	Slovakia	UFI: X435-A1W4-000J-AMXN
	Slovenia	UFI: X435-A1W4-000J-AMXN
	Spain	UFI: X435-A1W4-000J-AMXN
	Sweden	UFI: X435-A1W4-000J-AMXN
	Switzerland	UFI: X435-A1W4-000J-AMXN
15.	2. Chemical safety	No Chemical Safety Assessment has been ca
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assessment

carried out.

SECTION 16: Other information

List of abbreviations ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways. ADR: Agreement concerning the International Carriage of Dangerous Goods by Road. AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert - Germany). CAS: Chemical Abstract Service. CEN: European Committee for Standardization. IATA: International Air Transport Association. IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk. IMDG: International Maritime Dangerous Goods. MAC: Maximum Allowed Concentration. MARPOL: International Convention for the Prevention of Pollution from Ships. PBT: Persistent, bioaccumulative and toxic. RID: Regulations concerning the International Carriage of Dangerous Goods by Rail. STEL: Short term exposure limit. TLV: Threshold Limit Value. TWA: Time Weighted Average. VLE: Exposure Limit Value. VME: Exposure Average Value. vPvB: Very persistent and very bioaccumulative. References Not available. The classification for health and environmental hazards is derived by a combination of calculation Information on evaluation method leading to the methods and test data, if available. classification of mixture

Full text of any statements,	
which are not written out in full	
under sections 2 to 15	H225 Highly flammable liquid and vapor.
	H301 Toxic if swallowed.
	H302 Harmful if swallowed.
	H312 Harmful in contact with skin.
	H314 Causes severe skin burns and eye damage.
	H315 Causes skin irritation.
	H317 May cause an allergic skin reaction.
	H318 Causes serious eye damage.
	H319 Causes serious eye irritation.
	H330 Fatal if inhaled.
	H331 Toxic if inhaled.
	H335 May cause respiratory irritation.
	H361 Suspected of damaging fertility or the unborn child.
	H400 Very toxic to aquatic life.
	H410 Very toxic to aquatic life with long lasting effects.
	H411 Toxic to aquatic life with long lasting effects.
Revision information	This document has undergone significant changes and should be reviewed in its entirety.
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.