

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

1.1. Product identifier

Product form : Mixture
Product name : CONSTRUCTION BONDER.
Type of product : adhesives
Product group : Trade product

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category : Industrial use
Use of the substance/mixture : Adhesives, binding agents
Function or use category : Adhesives, binding agents

1.2.2. Uses advised against

Restrictions on use : Adhesives, sealants

1.3. Details of the supplier of the safety data sheet

Manufacturer

INTEGRA Adhesives (UNIKA)
Unika Color Products Ltd Unika House
New York Industrial Park
NE27 0QF Newcastle-upon-Tyne
UK
T +44 (0)191 259 0033
technical@unika.co.uk

Only Representative

Ricardo Nederland BV B.V.
Catharijnesingel 33 3511 GC Utrecht
Netherlands

1.4. Emergency telephone number

Emergency number : +44 (0) 191 259 0033
office hours only

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 2	H225
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 1	H318
Skin sensitisation, Category 1	H317
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	H335
Hazardous to the aquatic environment — Chronic Hazard, Category 3	H412
Full text of H- and EUH-statements: see section 16	

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS02



GHS05



GHS07

Signal word (CLP) : Danger

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Contains	: METHYL METHACRYLATE, 2-METHYLPROPENOIC ACID, 2-HYDROXYETHYL METHACRYLATE, BIS(METHACRYLOYLOXYETHYL) HYDROGEN PHOSPHATE, Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one, 4-TOLUENE SULFONYL CHLORIDE
Hazard statements (CLP)	: H225 - Highly flammable liquid and vapour. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage. H335 - May cause respiratory irritation. H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water . P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

2.3. Other hazards

PBT: not yet assessed
vPvB: not yet assessed

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
METHYL METHACRYLATE substance with a Community workplace exposure limit	CAS-No.: 80-62-6 EC-No.: 201-297-1 EC Index-No.: 607-035-00-6 REACH-no: 01-2119452498-28	≥ 50 – < 75	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335
ACRYLIC COPOLYMER substance with a Community workplace exposure limit	-	≥ 10	Not classified
2-METHYLPROPENOIC ACID	CAS-No.: 79-41-4 EC-No.: 201-204-4 EC Index-No.: 607-088-00-5 REACH-no: 01-2119463884-26	≥ 1 – < 5	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1A, H314 STOT SE 3, H335
3,5-DIETHYL-1,2-DIHYDRO-1-PHENYL-2-PROPYLPYRIDINE	CAS-No.: 34562-31-7 EC-No.: 252-091-3	≥ 1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315
4-TOLUENE SULFONYL CHLORIDE	CAS-No.: 98-59-9 EC-No.: 202-684-8 REACH-no: BELOW TONNAGE LEVEL	≥ 1 – < 5	Met. Corr. 1, H290 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2,6-DI-TERT-BUTYL-P-CRESOL	CAS-No.: 128-37-0 EC-No.: 204-881-4 REACH-no: 01-2119565113-46	< 1	Aquatic Chronic 1, H410
CUMENE HYDROPEROXIDE	CAS-No.: 80-15-9 EC-No.: 201-254-7 EC Index-No.: 617-002-00-8	< 1	Org. Perox. CD, H242 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Inhalation:dust,mist), H331 Skin Corr. 1A, H314 STOT RE 2, H373 Aquatic Chronic 2, H411
2-HYDROXYETHYL METHACRYLATE	CAS-No.: 868-77-9 EC-No.: 212-782-2 EC Index-No.: 607-124-00-X REACH-no: 01-2119490169-29	< 1	Eye Irrit. 2, H319 Skin Sens. 1, H317
BIS(METHACRYLOYLOXYETHYL) HYDROGEN PHOSPHATE	CAS-No.: 32435-46-4 EC-No.: 251-040-2	< 1	Eye Dam. 1, H318 Skin Sens. 1B, H317
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one substance with a Community workplace exposure limit	CAS-No.: 55965-84-9 EC-No.: 911-418-6	< 1	Acute Tox. 3 (Oral), H301 Acute Tox. 2 (Dermal), H310 Acute Tox. 2 (Inhalation), H330 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Specific concentration limits:

Name	Product identifier	Specific concentration limits
CUMENE HYDROPEROXIDE	CAS-No.: 80-15-9 EC-No.: 201-254-7 EC Index-No.: 617-002-00-8	(1 ≤C ≤ 3) Eye Irrit. 2, H319 (3 ≤C ≤ 10) Skin Irrit. 2, H315 (3 ≤C ≤ 10) Eye Dam. 1, H318 (10 ≤C < 100) Skin Corr. 1B, H314 (10 ≤C < 100) STOT SE 3, H335

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Get medical advice/attention if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention.
First-aid measures after skin contact	: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth out with water. Get medical advice/attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation	: Inhalation may cause irritation (cough, short breathing, difficulty in breathing). May cause shortness of breath, tightness of the chest, a sore throat and cough.
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Symptoms/effects after skin contact	: irritation (itching, redness, blistering).
Symptoms/effects after eye contact	: redness, itching, tears.
Symptoms/effects after ingestion	: Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO ₂).
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Flammable liquid and vapour.
Hazardous decomposition products in case of fire	: Carbon dioxide. Carbon monoxide. Toxic fumes may be released.

5.3. Advice for firefighters

Precautionary measures fire	: Eliminate all ignition sources if safe to do so.
Firefighting instructions	: Do not enter fire area without proper protective equipment, including respiratory protection. Use water spray or fog for cooling exposed containers. Eliminate all ignition sources if safe to do so.
Protection during firefighting	: Use self-contained breathing apparatus and chemically protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Do not handle until all safety precautions have been read and understood.
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6.1.1. For non-emergency personnel

Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Keep upwind. Evacuate unnecessary personnel. Only qualified personnel equipped with suitable protective equipment may intervene.
Measures in case of dust release	: Do not inhale dusts, particulates and spray mist when using this preparation.

6.1.2. For emergency responders

Protective equipment	: Use self-contained breathing apparatus and chemically protective clothing.
Emergency procedures	: Stop leak if safe to do so. Cover spill with non combustible material, e.g.: sand/earth.

6.2. Environmental precautions

Do not allow to enter drains or water courses. Do not allow product to spread into the environment.

6.3. Methods and material for containment and cleaning up

For containment	: Absorb spilled material with sand or earth.
Methods for cleaning up	: Clean up any spills as soon as possible, using an absorbent material to collect it. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.
Other information	: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Precautions for safe handling	: Avoid contact with skin, eyes and clothing. Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station.
Handling temperature	: 13 – 27 °C

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Hygiene measures : Take off immediately all contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store in a well-ventilated place. Keep container tightly closed.

Incompatible products : Oxidizing agent. Strong acids.

Incompatible materials : Sources of ignition.

Storage temperature : 13 – 27 °C

Storage area : Store in a well-ventilated place. Store away from heat.

Special rules on packaging : Keep only in original container.

Packaging materials : Keep only in the original container in a cool, well-ventilated place away from combustible materials.

7.3. Specific end use(s)

Adhesives, Sealants.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

METHYL METHACRYLATE (80-62-6)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Methyl methacrylate
IOEL TWA [ppm]	50 ppm
IOEL STEL [ppm]	100 ppm
Regulatory reference	COMMISSION DIRECTIVE 2009/161/EU
Belgium - Occupational Exposure Limits	
Local name	Méthacrylate de méthyle # Methylmethacrylaat
OEL TWA	208 mg/m³
OEL TWA [ppm]	50 ppm
OEL STEL	416 mg/m³
OEL STEL [ppm]	100 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 19/11/2020
Bulgaria - Occupational Exposure Limits	
Local name	Метилметакрилат
OEL TWA [ppm]	50 ppm
OEL STEL [ppm]	100 ppm
Remark	• (Химични агенти, за които са определени гранични стойности във въздуха на работната среда за Европейската общност)
Regulatory reference	Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа (изм. и доп. ДВ. бр.5 от 17 Януари 2020 г.)
Croatia - Occupational Exposure Limits	
Local name	Metil-metakrilat; metil-2-metil-prop-2-enoat; metil-2-metil-propenoat
GVI (OEL TWA) [2]	50 ppm
KGVI (OEL STEL) [ppm]	100 ppm

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METHYL METHACRYLATE (80-62-6)	
Remark	Direktiva: 2009/161/EU. Napomena: Koža (razvrstana kao tvar koja nadražuje kožu (H315)), alergen koža (tvar koja može izazvati alergijsku reakciju na koži (H317))
Regulatory reference	Pravilnik o izmjenama i dopunama Pravilnika o graničnim vrijednostima izloženosti opasnim tvarima pri radu i o biološkim graničnim vrijednostima (NN 91/2018)
Czech Republic - Occupational Exposure Limits	
Local name	Methylmetakrylát (Methylester 2-methyl-2-propenové kyseliny)
PEL (OEL TWA)	50 mg/m ³
PEL (OEL TWA) [ppm]	12 ppm
NPK-P (OEL C)	150 mg/m ³
NPK-P (OEL C) [ppm]	36 ppm
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 41/2020 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Methylmethacrylat (Methacrylsyremethylester; 2-Methylpropensyremethylester)
OEL TWA [1]	102 mg/m ³
OEL TWA [2]	25 ppm
Regulatory reference	BEK nr 290 af 13/02/2021
Estonia - Occupational Exposure Limits	
Local name	Metüülmetakrülaat (metüül-2-metüülpropenaat)
OEL TWA [ppm]	50 ppm
OEL STEL [ppm]	100 ppm
Remark	S (Sensibiliseeriv aine)
Regulatory reference	Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 17.10.2019, 2); Vabariigi Valitsuse 10. märtsi 2019. a määruse nr 84
Finland - Occupational Exposure Limits	
Local name	Metyylimetakrylaatti
HTP (OEL TWA) [1]	42 mg/m ³
HTP (OEL TWA) [2]	10 ppm
HTP (OEL STEL)	210 mg/m ³
HTP (OEL STEL) [ppm]	50 ppm
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveysministeriö)
France - Occupational Exposure Limits	
Local name	Méthacrylate de méthyle
VME (OEL TWA)	205 mg/m ³
VME (OEL TWA) [ppm]	50 ppm
VLE (OEL C/STEL)	410 mg/m ³
VLE (OEL C/STEL) [ppm]	100 ppm
Remark	Valeurs réglementaires contraignantes
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 984, 2016; Décret n° 2019-1487; Décret n° 2020-1546; Décret n° 2021-434)

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METHYL METHACRYLATE (80-62-6)	
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Methylmethacrylat
AGW (OEL TWA) [1]	210 mg/m ³
AGW (OEL TWA) [2]	50 ppm
Peak exposure limitation factor	2(I)
Remark	DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); EU - Europäische Union (Von der EU wurde ein Luftgrenzwert festgelegt: Abweichungen bei Wert und Spitzenbegrenzung sind möglich); Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden
Regulatory reference	TRGS900
Gibraltar - Occupational Exposure Limits	
Local name	Methyl methacrylate
OEL TWA [ppm]	50 ppm
OEL STEL [ppm]	100 ppm
Regulatory reference	Factories (Control of Chemical Agents at Work) Regulations 2003 (LN. 2018/181)
Greece - Occupational Exposure Limits	
Local name	Μεθακρυλικός μεθυλεοτέρας
OEL TWA [ppm]	100 ppm
OEL STEL [ppm]	200 ppm
Regulatory reference	Π.Δ. 12/2012 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους
Hungary - Occupational Exposure Limits	
Local name	METIL-METAKRILÁT
AK (OEL TWA)	208 mg/m ³
CK (OEL STEL)	415 mg/m ³
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Ireland - Occupational Exposure Limits	
Local name	Methyl methacrylate
OEL TWA [2]	50 ppm
OEL STEL [ppm]	100 ppm
Regulatory reference	Chemical Agents Code of Practice 2020
Italy - Occupational Exposure Limits	
Local name	Metacrilato di metile
OEL TWA [ppm]	50 ppm
OEL STEL [ppm]	100 ppm
Regulatory reference	Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i.

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METHYL METHACRYLATE (80-62-6)	
Latvia - Occupational Exposure Limits	
Local name	Metilmetakrilāts (2-metilpropēnskābes metilesteris, metil-2-metilpropeonāts)
OEL TWA	10 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325
Lithuania - Occupational Exposure Limits	
Local name	Metilmetakrilatas
IPRV (OEL TWA)	208 mg/m ³
IPRV (OEL TWA) [ppm]	50 ppm
TPRV (OEL STEL)	416 mg/m ³
TPRV (OEL STEL) [ppm]	100 ppm
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)
Luxembourg - Occupational Exposure Limits	
Local name	Méthacrylate de méthyle
OEL TWA [ppm]	50 ppm
OEL STEL [ppm]	100 ppm
Regulatory reference	Mémorial A N° 684 de 2018 concernant la protection de la sécurité et de la santé des salariés contre les risques liés à des agents chimiques sur le lieu de travail
Malta - Occupational Exposure Limits	
Local name	Methyl methacrylate
OEL TWA [ppm]	50 ppm
OEL STEL [ppm]	100 ppm
Regulatory reference	S.L.424.24 - Chemical Agents at Work Regulations (L.N.57 of 2018)
Netherlands - Occupational Exposure Limits	
Local name	Methylmethacrylaat
TGG-8u (OEL TWA)	205 mg/m ³
TGG-15min (OEL STEL)	410 mg/m ³
Regulatory reference	Arbeidsomstandighedenregeling 2021
Poland - Occupational Exposure Limits	
Local name	Metakrylan metylu
NDS (OEL TWA)	100 mg/m ³
NDSch (OEL STEL)	300 mg/m ³
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	Metacrilato de metilo
OEL TWA [ppm]	50 ppm
OEL STEL [ppm]	100 ppm
Remark	S (Agente com potencial para produzir sensibilização); A4 (Agente não classificável como carcinogénico no Homem)

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METHYL METHACRYLATE (80-62-6)	
Regulatory reference	Norma Portuguesa NP 1796:2014
Romania - Occupational Exposure Limits	
Local name	Metacrilat de metil/Metil 2-metilpropenoat
OEL TWA	205 mg/m ³
OEL TWA [ppm]	50 ppm
OEL STEL	410 mg/m ³
OEL STEL [ppm]	100 ppm
Regulatory reference	Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 53/2021)
Serbia - Occupational Exposure Limits	
Local name	метил-метакрилат
OEL TWA	200 mg/m ³
OEL TWA [ppm]	50 ppm
OEL STEL [ppm]	100 ppm
Regulatory reference	ПРАВИЛНИК о превентивним мерама за безбедан и здрав рад при излагању хемијским материјама („Службени гласник РС”, бр. 106/09 и 117/17)
Slovakia - Occupational Exposure Limits	
Local name	Metylmetakrylát (metyl 2-etylpropenoát)
NPHV (OEL TWA) [2]	50 ppm
NPHV (OEL STEL) [ppm]	100 ppm
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)
Slovenia - Occupational Exposure Limits	
Local name	metilmetakrilat (metil 2-metilprop-2-enoat; metil 2-metilpropenoat)
OEL TWA	210 mg/m ³
OEL TWA [ppm]	50 ppm
OEL STEL	420 mg/m ³
OEL STEL [ppm]	100 ppm
Remark	Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti), EU
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
Spain - Occupational Exposure Limits	
Local name	Metacrilato de metilo
VLA-ED (OEL TWA) [2]	50 ppm
VLA-EC (OEL STEL) [ppm]	100 ppm
Remark	Sen (Sensibilizante), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2021. INSHT
Sweden - Occupational Exposure Limits	
Local name	Metylmetakrylat

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METHYL METHACRYLATE (80-62-6)	
NGV (OEL TWA)	200 mg/m ³
NGV (OEL TWA) [ppm]	50 ppm
KTV (OEL STEL)	400 mg/m ³
KTV (OEL STEL) [ppm]	100 ppm
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom - Occupational Exposure Limits	
Local name	Methyl methacrylate
WEL TWA (OEL TWA) [1]	208 mg/m ³
WEL TWA (OEL TWA) [2]	50 ppm
WEL STEL (OEL STEL)	416 mg/m ³
WEL STEL (OEL STEL) [ppm]	100 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Iceland - Occupational Exposure Limits	
Local name	Metýlmetakrílat (metakrílsýrumetýlester, 2-metýlprópensýrumetýlester)
OEL TWA [ppm]	50 ppm
OEL STEL [ppm]	100 ppm
Regulatory reference	Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 1296/2012)
Norway - Occupational Exposure Limits	
Local name	Metylmetakrylat (Metakrylsyremetylester)
Grenseverdi (OEL TWA) [1]	100 mg/m ³
Grenseverdi (OEL TWA) [2]	25 ppm
Korttidsverdi (OEL STEL)	400 mg/m ³
Korttidsverdi (OEL STEL) [ppm]	100 ppm
Regulatory reference	FOR-2020-04-06-695
Switzerland - Occupational Exposure Limits	
Local name	Méthacrylate de méthyle / Methylmethacrylat [Methacrylsäuremethylester]
MAK (OEL TWA) [1]	210 mg/m ³
MAK (OEL TWA) [2]	50 ppm
KZGW (OEL STEL)	420 mg/m ³
KZGW (OEL STEL) [ppm]	100 ppm
Critical toxicity	Poumons, VRS, Yeux / Lunge, OAW, Auge
Notation	S, SS _C / S, SS _C
Remark	INRS, NIOSH
Regulatory reference	www.suva.ch, 01.01.2021

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2,6-DI-TERT-BUTYL-P-CRESOL (128-37-0)

United Kingdom - Occupational Exposure Limits

WEL TWA (OEL TWA) [1]	10 mg/m ³
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2-HYDROXYETHYL METHACRYLATE (868-77-9)

Norway - Occupational Exposure Limits

Grenseverdi (OEL TWA) [1]	11 mg/m ³
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Grenseverdi (OEL TWA) [2]	2 ppm
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Kortidsverdi (OEL STEL)	16.5 mg/m ³
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Kortidsverdi (OEL STEL) [ppm]	4 ppm
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Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (55965-84-9)

EU - Binding Occupational Exposure Limit (BOEL)

BOEL TWA	0 mg/m ³
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ACRYLIC COPOLYMER

EU - Indicative Occupational Exposure Limit (IOEL)

IOEL TWA	1 mg/m ³
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8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure that there is a suitable ventilation system.

8.2.2. Personal protection equipment

Personal protective equipment:

Gloves. Protective clothing. Safety glasses.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

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Eye protection			
Type	Field of application	Characteristics	Standard
Safety glasses	Droplet	With side shields	EN 166

8.2.2.2. Skin protection

Skin and body protection	
Type	Standard
Disposable gloves	EN 374-2

Hand protection:

Nitrile rubber gloves

Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	2 (> 30 minutes)	< 0.7	2 (< 1.5)	EN ISO 374

8.2.2.3. Respiratory protection

Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: amber.
Odour	: Characteristic odour.
Odour threshold	: No data available
pH	: Not applicable.
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: -48
Freezing point	: No data available
Boiling point	: 1003 °C
Flash point	: 15 °C
Auto-ignition temperature	: 435
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 53 hPa @ 20C
Relative vapour density at 20 °C	: 37hPA (20'C)
Relative density	: 0.97
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

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9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

Stable under normal conditions of use.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Strong acids. Oxidizing agent.

10.6. Hazardous decomposition products

May liberate toxic gases.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

METHYL METHACRYLATE (80-62-6)

LD50 oral rat	> 5000 mg/kg
LD50 oral	29.8 mg/l 4hrs
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

2,6-DI-TERT-BUTYL-P-CRESOL (128-37-0)

LD50 oral rat	> 2930 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

2-METHYLPROPENOIC ACID (79-41-4)

LD50 oral rat	1320 mg/kg
LD50 dermal	500 – 1000 mg/kg

2-HYDROXYETHYL METHACRYLATE (868-77-9)

LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit, Animal sex: male
LD50 dermal	> 3000 mg/kg

4-TOLUENE SULPHONYL CHLORIDE (98-59-9)

LD50 oral rat	4680 mg/kg
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BIS(METHACRYLOYLOXYETHYL) HYDROGEN PHOSPHATE (32435-46-4)

LD50 oral rat	> 5000 mg/kg
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ACRYLIC COPOLYMER

LD50 oral rat	> 5000 mg/kg
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Skin corrosion/irritation	: Causes skin irritation. pH: Not applicable.
Serious eye damage/irritation	: Causes serious eye damage. pH: Not applicable.
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

2,6-DI-TERT-BUTYL-P-CRESOL (128-37-0)

NOAEL (chronic, oral, animal/male, 2 years)	25 mg/kg bodyweight Animal: rat, Animal sex: male, Remarks on results: other:Effect type: toxicity (migrated information)
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Reproductive toxicity	: Not classified
STOT-single exposure	: May cause respiratory irritation.

METHYL METHACRYLATE (80-62-6)

STOT-single exposure	May cause respiratory irritation.
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2-METHYLPROPENOIC ACID (79-41-4)

STOT-single exposure	May cause respiratory irritation.
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STOT-repeated exposure	: Not classified
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2,6-DI-TERT-BUTYL-P-CRESOL (128-37-0)

LOAEL (oral, rat, 90 days)	100 mg/kg bodyweight Animal: rat, Animal sex: male
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NOAEL (oral, rat, 90 days)	25 mg/kg bodyweight Animal: rat, Animal sex: male
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CUMENE HYDROPEROXIDE (80-15-9)

STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
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Aspiration hazard	: Not classified
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SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Harmful to aquatic life with long lasting effects.
Not rapidly degradable	

METHYL METHACRYLATE (80-62-6)

LC50 - Fish [1]	> 79 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
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EC50 - Crustacea [1]	69 mg/l Test organisms (species): Daphnia magna
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EC50 72h - Algae [1]	> 110 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
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LOEC (chronic)	68 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
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NOEC (chronic)	37 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
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METHYL METHACRYLATE (80-62-6)	
NOEC chronic fish	9.4 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '35 d'
2,6-DI-TERT-BUTYL-P-CRESOL (128-37-0)	
LC50 - Fish [1]	0.199 mg/l
EC50 - Crustacea [1]	0.48 mg/l Test organisms (species): Daphnia magna
EC50 - Other aquatic organisms [1]	0.48 mg/l Aquatic invertebrates
EC50 72h - Algae [1]	> 0.4 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
ErC50 algae	0.758 mg/l
LOEC (chronic)	1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	0.023 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	0.053 mg/l Test organisms (species): Oryzias latipes Duration: '42 d'
2-METHYLPROPENOIC ACID (79-41-4)	
LC50 - Fish [1]	85 mg/l
EC50 - Other aquatic organisms [1]	> 130 mg/l
2-HYDROXYETHYL METHACRYLATE (868-77-9)	
LC50 - Fish [1]	> 100 mg/l
EC50 - Crustacea [1]	380 mg/l Test organisms (species): Daphnia magna
EC50 - Other aquatic organisms [1]	380 mg/l
EC50 72h - Algae [1]	836 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	345 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
LOEC (chronic)	49.6 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	24.1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
4-TOLUENE SULPHONYL CHLORIDE (98-59-9)	
LC50 - Fish [1]	> 100 mg/l Brachydanio rerio
LC50 - Fish [2]	> 100 mg/l Test organisms (species): Oryzias latipes
EC50 - Crustacea [1]	70 mg/l Test organisms (species): Daphnia magna
EC50 - Crustacea [2]	> 334 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

2,6-DI-TERT-BUTYL-P-CRESOL (128-37-0)	
Bioconcentration factor (BCF REACH)	598
Partition coefficient n-octanol/water (Log Pow)	5.2

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12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

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PBT: not yet assessed

vPvB: not yet assessed

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Additional information	: Industrial waste.
Ecology - waste materials	: Avoid release to the environment.
European List of Waste (LoW) code	: 08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous substances

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
UN 1133	UN 1133	UN 1133	UN 1133	UN 1133
14.2. UN proper shipping name				
Adhesives	Adhesives	Adhesives	Adhesives	Adhesives
Transport document description				
UN 1133 Adhesives, 3, II, (D/E)	UN 1133 Adhesives, 3, II	UN 1133 Adhesives, 3, II	UN 1133 Adhesives, 3, II	UN 1133 Adhesives, 3, II
14.3. Transport hazard class(es)				
3	3	3	3	3
14.4. Packing group				
II	II	II	II	II
14.5. Environmental hazards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available				

14.6. Special precautions for user

Overland transport

Transport category (ADR) : 2

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Tunnel restriction code (ADR) : D/E

Transport by sea

No data available

Air transport

No data available

Inland waterway transport

No data available

Rail transport

No data available

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

15.1.2. National regulations

France

Occupational diseases

Code	Description
RG 82	Conditions caused by methyl methacrylate

Germany

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG)
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG)

Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

ABM category : Z(1) - non biodegradable substances with hazardous properties for humans and the environment (carcinogenicity/ mutagenicity/ reprotoxicity/bioaccumulative potential/ toxicity or persistence)

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed

SZW-lijst van reprotoxische stoffen – : None of the components are listed

Vruchtbaarheid

SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

Denmark

Class for fire hazard : Class I-1

Store unit : 1 liter

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Classification remarks : F <Flam. Liq. 2>; Emergency management guidelines for the storage of flammable liquids must be followed

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

Switzerland

Storage class (LK) : LK 3 - Flammable liquids

15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

SECTION 16: Other information

Indication of changes:

Revision - See : *.

Abbreviations and acronyms:

CAS-No.	Chemical Abstract Service number
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EC-No.	European Community number
ED	Endocrine disrupting properties
EN	European Standard
IARC	International Agency for Research on Cancer
IOELV	Indicative Occupational Exposure Limit Value
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
N.O.S.	Not Otherwise Specified
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OEL	Occupational Exposure Limit
OECD	Organisation for Economic Co-operation and Development

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Abbreviations and acronyms:	
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
TRGS	Technical Rules for Hazardous Substances
vPvB	Very Persistent and Very Bioaccumulative
VOC	Volatile Organic Compounds
WGK	Water Hazard Class

Data sources : ECHA (European Chemicals Agency).

Full text of H- and EUH-statements:	
Acute Tox. 2 (Dermal)	Acute toxicity (dermal), Category 2
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
H225	Highly flammable liquid and vapour.
H242	Heating may cause a fire.
H290	May be corrosive to metals.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H311	Toxic in contact with skin.

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Full text of H- and EUH-statements:	
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.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
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.
H412	Harmful to aquatic life with long lasting effects.
Met. Corr. 1	Corrosive to metals, Category 1
Org. Perox. CD	Organic Peroxides, Type C,D
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1A	Skin sensitisation, category 1A
Skin Sens. 1B	Skin sensitisation, category 1B
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.