



PROXL GENERATION 20 – PLASTIC ADHESION PROMOTER

Safety Data Sheet

ACCORDING TO REGULATION (EC) 1907/2006

Creation date: 11.12.2023, Revision: 11.12.2023, version: Unpublished version

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

1.1. Product identifier

Product name: Generation20 Plastic Adhesion Promoter

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

No information.

1.3. Details of the supplier of the safety data sheet

ProXL Refinishing Products
Unit 6
Walbrook Business Park
Queenborough Road
Minster on Sea
SHEERNESS
ME12 3XS
Tel: +44 (0)1634 823900
Email: info@proxl.com

1.4. Emergency telephone number

Emergency tel: +44(0)1634 823900 (08.00 / 17.00)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flam. Liq. 2; H225 Highly flammable liquid and vapour.

Asp. Tox. 1; H304 May be fatal if swallowed and enters airways.

Skin Irrit. 2; H315 Causes skin irritation.

Acute Tox. 4; H332 Harmful if inhaled.

STOT SE 3; H336 May cause drowsiness or dizziness.

Repr. 2; H361d Suspected of damaging the unborn child.

STOT RE 2; H373 May cause damage to organs through prolonged or repeated exposure.

2.2. Label elements

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



Signal word: DANGER

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H332 Harmful if inhaled.

H336 May cause drowsiness or dizziness.



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H361d Suspected of damaging the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

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.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

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

shower].

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with national regulation.

Contains:

xylene

toluene

xylene

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

ethylbenzene

2.3. Other hazards

PBT/vPvB

No information.

Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

Additional information

No information.

Section 3: Composition/information on ingredients

3.1. Substances

For mixtures see 3.2.

3.2. Mixtures

Name	CAS EC Index Reach	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits	Notes for substances
xylene	1330-20-7 215-535-7 601-022-00-9	40-50	Flam. Liq. 3; H226 Acute Tox. 4; H312 Skin Irrit. 2; H315 Acute Tox. 4; H332	/	C
toluene	108-88-3 203-625-9 601-021-00-3 01-2119471310-51	40-50	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Repr. 2; H361d STOT RE 2; H373	/	/



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xylylene	1330-20-7 215-535-7 601-022-00-9	2.5-5	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute Tox. 4; H332 STOT SE 3; H335 STOT RE 2; H373	/	C
Benzophenone	119-61-9 204-337-6 -	1-2.5	STOT RE 2; H373 Aquatic Chronic 3; H412	/	/
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	64742-82-1 919-446-0 -	1-2.5	Flam. Liq. 3; H226 Asp. Tox. 1; H304 STOT SE 3; H336 STOT RE 1; H372 Aquatic Chronic 2; H411 EUH066	/	P
ethylbenzene	100-41-4 202-849-4 601-023-00-4	0.1-1	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Acute Tox. 4; H332 STOT RE 2; H373 Aquatic Chronic 3; H412	/	/
toluene	108-88-3 203-625-9 601-021-00-3	0.1-1	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Repr. 2; H361d STOT RE 2; H373	/	/
benzene	71-43-2 200-753-7 601-020-00-8	0.01-0.1	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Muta. 1B; H340 Carc. 1A; H350 STOT RE 1; H372	/	/
isobutyl methacrylate	97-86-9 202-613-0 607-113-00-X	0.01-0.1	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319 STOT SE 3; H335 Aquatic Acute 1; H400; M = 1	/	D

Notes for substances

C	<p>Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers.</p> <p>In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.</p>
D	<p>Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3.</p> <p>However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words "non-stabilised".</p>
P	<p>The harmonised classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard classes.</p> <p>Where the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-)P260-P262-P301 + P310-P331 shall apply.</p>



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Section 4: First aid measures

4.1. Description of first aid measures

General notes

Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency. When in doubt or if feeling unwell seek medical assistance. Show the safety data sheet and label to the physician. No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. When it is suspected, that there may still be harmful vapours/fumes present in the air, respiratory protection (mask; self contained breathing apparatus) must be used. Wash contaminated clothing with water before removing or use gloves.

Following inhalation

Remove patient to fresh air - move out of dangerous area. In case of unconsciousness bring patient into stable side position and seek medical attention. If breathing is irregular or respiratory arrest occurs provide artificial respiration. Keep at rest in a position comfortable for breathing. Seek medical help immediately.

Following skin contact

Take off all contaminated clothing. Areas of the body that have come into contact with the product must be rinsed with water. Consult a physician.

Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. Seek medical help.

Following ingestion

Do not induce vomiting! Aspiration hazard if swallowed. Can enter lungs and cause damage. If vomiting occurs, the patient should hold the head lower than the hips, because it reduces the possibility of aspiration. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Immediately consult a doctor. Show the physician the safety data sheet or label.

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

Following inhalation

Excessive exposure to spray mist, fog, or vapours may cause respiratory irritation. Symptoms include: headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, unconsciousness. Vapours may cause drowsiness and dizziness. Harmful.

Following skin contact

Itching, redness, pain.

Following eye contact

Contact with eyes can cause irritation (redness, tearing, pain).

Following ingestion

May cause nausea/vomiting and diarrhea. May cause abdominal discomfort. Irritates mucous membranes in the mouth, throat, esophagus and in gastrointestinal area. Aspiration into the lungs causes coughing, shortness of breath and may lead to chemical pneumonia.



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

Treat symptomatically. After the product has been ingested vomiting can cause aspiration into the lungs. Because of the risk of aspiration, induction of vomiting and gastric lavage should be avoided.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide. Dry chemical powder. Water spray. Alcohol resistant foam.

Unsuitable extinguishing media

Full water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

In case of a fire toxic gases can be generated; do not inhale gases/smoke.

5.3. Advice for fire-fighters

Protective actions

In case of fire or heating do not breathe fumes/vapours. No action shall be taken involving any personal risk or without suitable training. Prolonged heating can cause an explosion. Vapours can form explosive mixtures with air. Cool containers at risk with water spray. If possible remove containers from endangered area.

Special protective equipment for fire-fighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (BS EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (BS EN 137).

Additional information

No information.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment

No information.

Precautionary measures

Ensure adequate ventilation. Keep away from sources of ignition and/or heat; No smoking!

Emergency procedures

No action shall be taken involving any personal risk or without suitable training. Prevent access to unprotected personnel. Evacuate the danger zone. Do not breathe vapour or mist. Avoid contact with skin, eyes and clothing.

For emergency responders

Use personal protective equipment.

6.2. Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. In case of release into the environment, inform the relevant authorities.

6.3. Methods and material for containment and cleaning up

For containment

Stem the spill if this does not pose risks.

For cleaning up

Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. Use only explosion-proof instruments and equipment. Use spark proof tools. Prevent release



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into the sewer, water, basements or confined areas. Ventilate the premises. Clean contaminated area with plenty of water.

Other information

No information..

6.4. Reference to other sections

See also sections 8 and 13.

Section 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Measures to prevent fire

Ensure adequate ventilation. Keep away from sources of ignition - no smoking. Use spark-proof tools. Take precautionary measures against static discharges. Vapours are heavier than air and spread along the floor. They form explosive mixtures with air.

Measures to prevent aerosol and dust generation

Use general or local exhaust ventilation to prevent inhaling vapours and aerosols.

Measures to protect the environment

Do not discharge into drains, surface water and soil. After use immediately close container tightly.

Other measures

No information.

Advice on general occupational hygiene

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Do not breathe vapours/mist. Avoid contact with skin, eyes and clothes. Remove contaminated clothes and wash them before reuse. Wear suitable protective equipment; see Section 8. Avoid exposure - obtain special instructions before using.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep in a cool, dry and well ventilated place. Protect from open fire, heat and direct sunlight. Keep away from food, drink and animal feeding stuffs. Keep away from oxidising substances. Keep away from sources of ignition - no smoking.

Packaging materials

Store only in original container.

Requirements for storage rooms and vessels

Close opened containers after use. Put the containers upright to prevent from leaking. Do not store in unlabelled containers.

Storage class

No information.

Further information on storage conditions

No information.

7.3. Specific end use(s)

Recommendations

No information.

Industrial sector specific solutions

No information.



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Section 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure limit values

Name	mg/m ³	ml/m ³	Short-term value mg/m ³	Short-term value ml/m ³	Remark	Biological Tolerance Values
Aromatics	500	/	/	/	/	/
Cycloalkanes ≥C7	800	/	/	/	/	/
Normal and branched chain alkanes ≥C7	1200	/	/	/	/	/
Ethylbenzene (100- 41-4)	441	100	552	125	Sk	/
Xylene, o-,m-,p- or mixed isomers (1330-20-7)	220	50	441	100	Sk, BMGV	650 mmol methyl hippuric acid/mol creatinine in urine - Post shift 650 mmol methyl hippuric acid/mol creatinine in urine - Post shift 650 mmol methyl hippuric acid/mol creatinine in urine - Post shift
Benzene (71-43-2)	3.25	1	/	/	Carc, Sk	/
Toluene (108-88-3)	191	50	384	100	Sk	/

Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values. BS EN 482:2021 Workplace exposure. Procedures for the determination of the concentration of chemical agents. Basic performance requirements.

DNEL/DMEL values For product

No information.

For components

Name	Type	Exposure route	exp. frequency	Remark	value
xylene	Worker	inhalation	long term systemic effects	/	221 mg/m ³
xylene	Worker	inhalation	short term systemic effects	/	442 mg/m ³
xylene	Worker	inhalation	long term local effects	/	221 mg/m ³
xylene	Worker	inhalation	short term local effects	/	442 mg/m ³
xylene	Worker	dermal	long term systemic effects	/	212 mg/kg bw/day
xylene	Consumer	inhalation	long term systemic effects	/	65.3 mg/m ³
xylene	Consumer	inhalation	short term systemic effects	/	260 mg/m ³
xylene	Consumer	inhalation	long term local effects	/	65.3 mg/m ³
xylene	Consumer	inhalation	short term local effects	/	260 mg/m ³
xylene	Consumer	dermal	long term systemic effects	/	125 mg/kg bw/day
xylene	Consumer	oral	long term systemic effects	/	12.5 mg/kg bw/day



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Benzophenone	Worker	inhalation	long term systemic effects	/	0.7 mg/m ³
Benzophenone	Worker	dermal	long term systemic effects	/	0.1 mg/kg bw/day
Benzophenone	Consumer	inhalation	long term systemic effects	/	0.17 mg/m ³
Benzophenone	Consumer	dermal	long term systemic effects	/	0.05 mg/kg bw/day
Benzophenone	Consumer	oral	long term systemic effects	/	0.05 mg/kg bw/day
benzene	Worker	inhalation	long term systemic effects	/	0.8 mg/m ³
benzene	Consumer	inhalation	long term systemic effects	/	0.14 mg/m ³
xylene	Worker	inhalation	long term systemic effects	/	221 mg/m ³
xylene	Worker	inhalation	short term systemic effects	/	442 mg/m ³
xylene	Worker	inhalation	long term local effects	/	221 mg/m ³
xylene	Worker	inhalation	short term local effects	/	442 mg/m ³
xylene	Worker	dermal	long term systemic effects	/	212 mg/kg bw/day
xylene	Consumer	inhalation	long term systemic effects	/	65.3 mg/m ³
xylene	Consumer	inhalation	short term systemic effects	/	260 mg/m ³
xylene	Consumer	inhalation	long term local effects	/	65.3 mg/m ³
xylene	Consumer	inhalation	short term local effects	/	260 mg/m ³
xylene	Consumer	dermal	long term systemic effects	/	125 mg/kg bw/day
xylene	Consumer	oral	long term systemic effects	/	12.5 mg/kg bw/day

PNEC values For product

No information.

For components

Name	Exposure route	Remark	value
xylene	fresh water	/	0.327 mg/L
xylene	water, intermittent release	/	0.327 mg/L
xylene	marine water	/	0.327 mg/L
xylene	water treatment plant	/	6.58 mg/L
xylene	fresh water sediment	dry weight	12.46 mg/kg
xylene	marine water sediment	dry weight	12.46 mg/kg
xylene	soil	dry weight	2.31 mg/kg
benzene	fresh water	/	80 µg/l
benzene	water, intermittent release	fresh water	53 µg/L
benzene	marine water	/	8 µg/l
benzene	water, marine, intermittent release	/	5.3 µg/l
benzene	STP	/	39 mg/L
benzene	fresh water sediment	/	1.36 mg/kg dw
benzene	marine water sediment	/	0.136 mg/kg
benzene	soil	/	0.225 mg/kg soil dw
xylene	fresh water	/	0.327 mg/L
xylene	water, intermittent release	/	0.327 mg/L
xylene	marine water	/	0.327 mg/L



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xylene	water treatment plant	/	6.58 mg/L
xylene	fresh water sediment	dry weight	12.46 mg/kg
xylene	marine water sediment	dry weight	12.46 mg/kg
xylene	soil	dry weight	2.31 mg/kg

8.2. Exposure controls

Appropriate engineering control

Substance/mixture related measures to prevent exposure during identified uses

Use good personal hygiene practices – wash hands at breaks and when done working with material. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothes. Do not eat, drink or smoke while working. Do not breathe vapours/aerosols.

Structural measures to prevent exposure

No information.

Organisational measures to prevent exposure

Remove all contaminated clothes immediately and wash them before reuse.

Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration. Keep away from food, drink and animal feeding stuffs.

Personal protective equipment

Eye and face protection

Safety glasses with side protection (BS EN ISO 16321-1:2022).

Hand protection

Protective gloves (EN ISO 374-1:2016). Observe the manufacturer's instructions regarding the use, storage, maintenance and replacement of gloves. In case of damage or at the first signs of wear and tear, change the gloves immediately. The penetration time is determined by the protective glove manufacturer and must be observed.

Appropriate materials

Skin protection

Protective antistatic clothing EN 1149 (1:2006, 2:1998 and 3:2004, 5:2008), protective antistatic shoes (EN 20345:2012).

At high risk of skin exposure chemical suits (EN 13034:2005+A1:2009) and boots may be required (EN ISO 20345:2022).

Respiratory protection

In case of insufficient ventilation wear suitable respiratory protection. Wear suitable protective breathing mask (EN 136) with filter A2-P2 (EN 14387). For dust/gas/ vapor concentrations above the applicable filter limit, in case of oxygen concentrations below 17% or in vague conditions, autonomous self-contained breathing apparatus should be used, according to standard BS EN 137, BS EN 138.

Thermal hazards

No information.

Environmental exposure controls

Substance/mixture related measures to prevent exposure

No information.

Instruction measures to prevent exposure

No information.

Organisational measures to prevent exposure

No information.

Technical measures to prevent exposure

Do not allow product to reach drains, sewage systems or ground water.



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Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid

Colour: No information.

Odour: No information.

Important health, safety and environmental information

Odour threshold	No information.
Melting point/Freezing point	No information.
Boiling point or initial boiling point and boiling range	No information.
Flammability	No information.
Lower and upper explosion limit	No information.
Flash point	No information.
Auto-ignition temperature	No information.
Decomposition temperature	No information.
pH	No information.
Viscosity	No information.
Solubility	No information.
Partition coefficient	No information.
Vapour pressure	No information.
Density and/or relative density	Density: 0.87954 g/cm ³
Relative vapour density	No information.
Particle characteristics	No information.

9.2. Other information

Solids content	4.3 % 3.381 vol %
Weight organic solvents	845.82 g/l
Explosive properties	No information.

Section 10: Stability and reactivity

10.1. Reactivity

No information.

10.2. Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

10.3. Possibility of hazardous reactions

Vapours and air can form flammable or explosive mixtures.

10.4. Conditions to avoid

Protect from heat, direct sunlight, open fire, sparks.



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10.5. Incompatible materials

Oxidants.

10.6. Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released.

Section 11: Toxicological information

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

(a) Acute toxicity For components

Name	Exposure route	Type	Species	Time	value	Method	Remark
xylene	oral	LD ₅₀	rat	/	> 3523 mg/kg	/	/
xylene	dermal	LD ₅₀	rabbit	/	4200 mg/kg	/	/
xylene	inhalation (vapours)	LC ₅₀	rat	4 h	29 mg/l	/	/
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	oral	LD ₅₀	rat	/	> 15000 mg/kg	/	/
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	dermal	LD ₅₀	rabbit	/	3400 mg/kg	/	/
ethylbenzene	dermal	LD ₅₀	rabbit	/	5000 mg/kg	/	/
ethylbenzene	oral	LD ₅₀	rat	/	3500 mg/kg	/	/
ethylbenzene	inhalation	LC ₅₀	rat	4 h	4000 ppm	/	/
Benzophenone	oral	LD ₅₀	rat	/	> 10000 mg/kg bw	/	/
Benzophenone	dermal	LD ₅₀	rabbit	/	3540 mg/kg bw	/	/



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toluene	oral	LD50	rat	/	5580 mg/kg	/	/
toluene	dermal	LD50	rabbit	/	12200 mg/kg	/	/
toluene	inhalation (vapours)	LC50	rat	4 h	49 mg/l	/	/
benzene	oral	LD50	rat (male)	/	> 2000 mg/kg	OECD 401	ECHA
benzene	inhalation (vapours)	LC50	rat (female)	4 h	43767 mg/m3	OECD 403	ECHA
benzene	dermal	LD50	rabbit	/	> 8260 mg/kg	OECD 402	ECHA
toluene	dermal	LD50	rabbit	/	12124 mg/kg	/	/
toluene	inhalation	LC50	rat	1 h	> 6675 ppm	/	/
toluene	oral	LD50	rat	/	636 mg/kg	/	/
toluene	/	-	human and animal	/	/	/	adverse central nervous system effects ranging from headaches to intoxication, convulsions, narcosis, and death
toluene	oral	/	human	30 min	60 ml	/	fatal nervous system depression, one reported case
xylene	oral	LD50	rat	/	> 3523 mg/kg	/	/



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xylene	dermal	LD50	rabbit	/	4200 mg/kg	/	/
xylene	inhalation (vapours)	LC50	rat	4 h	29 mg/l	/	/
isobutyl methacrylate	oral	LD50	rat	/	> 9590 mg/kg	/	/
isobutyl methacrylate	dermal	LD50	rabbit	/	> 3000 mg/kg	/	/
isobutyl methacrylate	inhalation	/	/	/	/	/	Brief exposure (minutes) is not likely to cause adverse effects. May cause respiratory tract irritation.
isobutyl methacrylate	inhalation (vapours)	LC50	mouse	4 h	29.7 mg/l	/	/

Additional information

Harmful if inhaled.

(b) Skin corrosion/irritation

For components

Name	Species	Time	result	Method	Remark
toluene	rabbit	24 h	Moderately irritating.	/	20 mg
toluene	rabbit	/	Moderately irritating.	/	500 mg
isobutyl methacrylate	/	/	/	/	Brief contact may cause moderate skin irritation with local redness. Prolonged contact may cause severe skin irritation with local redness and discomfort.

Additional information

Causes skin irritation.

(c) Serious eye damage/irritation

For components

Name	Exposure route	Species	Time	result	Method	Remark
toluene	/	rabbit	24 h	Severe irritation.	/	2 mg
toluene	/	rabbit	/	Mild irritating.	/	0,87 mg
toluene	/	rabbit	30 s	Mild irritating.	/	100 mg
isobutyl methacrylate	/	/	/	/	/	May cause slight eye irritation. Corneal injury is unlikely.



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(d) Respiratory or skin sensitisation

For components

Name	Exposure route	Species	Time	result	Method	Remark
isobutyl methacrylate	/	/	/	/	/	Skin contact may cause an allergic skin reaction.

Additional information

The product is not classified as sensitising.

(e) (Germ cell) mutagenicity

For components

Name	Type	Species	Time	result	Method	Remark
isobutyl methacrylate	/	/	/	In vitro genetic toxicity studies were predominantly negative. Genetic toxicity studies in animals were negative.	/	/

(f) Carcinogenicity

For components

Name	Exposure route	Type	Species	Time	value	result	Method	Remark
isobutyl methacrylate	/	/	/	/	/	Not classifiable as a human carcinogen.	/	/

(g) Reproductive toxicity

For components

Name	Reproductive toxicity type	Type	Species	Time	value	result	Method	Remark
isobutyl methacrylate	Teratogenicity	/	/	/	/	Did not show teratogenic effects in animal experiments.	/	analogy with similar substances
isobutyl methacrylate	Reproductive toxicity	/	animals	/	/	does not interfere with reproduction	/	For similar materials.

Summary of evaluation of the CMR properties

Suspected of damaging the unborn child.

(h) STOT-single exposure For components

Name	Exposure route	Type	Species	Time	Exposure	organ	value	result	Method	Remark
toluene	/	/	/	/	/	/	10000 - 30000 ppm	has been reported to cause narcosis and death	/	/
toluene	dermal	-	/	/	/	/	/	can also strip the skin of lipids causing dermatitis	/	/
isobutyl methacrylate	inhalation	/	/	/	/	Respiratory tract	/	/	/	May cause respiratory irritation.



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Additional information

May cause drowsiness or dizziness.

(i) STOT-repeated exposure For components

Name	Exposure route	Type	Species	Time	Exposure	organ	value	result	Method	Remark
toluene	inhalation	/	animals	/	/	/	100 ppm	central nervous system effects (headaches, dizziness, intoxication) and eye irritation	/	6 hours/day for 4 days
toluene	inhalation	-	rat	/	/	/	1600 ppm	swelling of the kidneys was reported, 18-20 hours/day for 3 days	/	3 days
toluene	/	/	/	/	/	/	/	cause adverse central nervous system effects and can damage the upper respiratory system, the liver, and the kidney	/	/
toluene	Oral / inhalation	-	/	/	/	/	88 ppm	/	/	a reported lowest-observed-effect level for adverse neurobehavioral effects
toluene	/	/	mouse (male)	28 days	/	/	105 mg/kg/day	weakening of the immune system	/	/

Additional information

Causes damage to organs through prolonged or repeated exposure. May cause damage to organs through prolonged or repeated exposure.

(j) Aspiration hazard For components

Name	result	Method	Remark
isobutyl methacrylate	/	/	May be harmful if swallowed and enters airways.

Additional information

May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

No information.

Interactive effects

No information.



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11.2 Information on other hazards

Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

Other information

No information.

Section 12: Ecological information

12.1. Toxicity

Acute (short-term) toxicity For components.

Name	Type	value	Exposure time	Species	organism	Method	Remark
xylene	LC ₅₀	13.4 mg/L	96 h	fish	<i>Pimephales promelas</i>	/	/
xylene	LC ₅₀	13.1 - 16.5 mg/L	96 h	fish	<i>Lepomis macrochirus</i>	/	/
xylene	LC ₅₀	2661 - 4093 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>	/	/
xylene	LC ₅₀	19 mg/L	96 h	fish	<i>Lepomis macrochirus</i>	/	/
xylene	LC ₅₀	30.26 - 40.75 mg/L	96 h	fish	<i>Poecilia reticulata</i>	/	/
xylene	LC ₅₀	23.53 - 29.97 mg/L	96 h	fish	<i>Pimephales promelas</i>	/	/
xylene	LC ₅₀	7711 - 9591 mg/L	96 h	fish	<i>Lepomis macrochirus</i>	/	/
xylene	LC ₅₀	780 mg/L	96 h	fish	<i>Cyprinus carpio</i>	/	/
xylene	LC ₅₀	> 780 mg/L	96 h	fish	<i>Cyprinus carpio</i>	/	/
xylene	LC ₅₀	13.5 - 17.3 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>	/	/
xylene	EC ₅₀	3.82 mg/L	48 h	daphnia	/	/	/
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	EC ₅₀	10 - 22 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	EC ₅₀	4.6 - 10 mg/L	72 h	algae	/	/	/
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	EC ₅₀	10 - 30 mg/L	96 h	fish	/	/	/
ethylbenzene	EC ₅₀	2 mg/L	48 h	<i>Daphnia</i>	/	/	/
ethylbenzene	EC ₅₀	1.7 mg/L	96 h	algae	/	/	/
ethylbenzene	EC ₅₀	2.6 mg/L	72 h	algae	/	/	/
ethylbenzene	LC ₅₀	4.2 mg/L	96 h	fish	/	/	/
Benzophenone	LC ₅₀	15.5 - 43 mg/L	96 h	fish	<i>Pimephales promelas</i>	/	/
Benzophenone	LC ₅₀	27 mg/L	48 h	fish	<i>Oryzias latipes</i>	/	/
Benzophenone	LC ₅₀	14.8 mg/L	96 h	fish	<i>Oryzias latipes</i>	/	/



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Benzophenone	EC50	30.1 mg/L	48 h	crustacea	Daphnia magna	/	/
toluene	LC50	13 mg/L	96 h	fish	Carassius auratus	/	/
toluene	ErC50	> 433 mg/L	96 h	algae	Pseudokirchneriel la subcapitata	/	/
toluene	EC50	11.5 mg/L	48 h	crustacea	Daphnia magna	/	/
benzene	EC50	10 mg/L	48 h	crustacea	Daphnia magna	OECD 202	ECHA
benzene	LC50	5.3 mg/L	96 h	fish	Oncorhynchus mykiss	OECD 203	ECHA
benzene	ErC50	100 mg/L	72 h	algae	Pseudokirchneriel la subcapitata	OECD 201	ECHA
benzene	EbC50	32 mg/L	72 h	algae	Pseudokirchneriel la subcapitata	OECD 201	ECHA
toluene	ErC50	0.0073 mg/L	96 h	fish	/	/	/
toluene	LC50	3.78 mg/L	96 h	fish	/	/	/
toluene	EC50	12.5 mg/L	96 h	fish	/	/	/
xylene	LC50	13.4 mg/L	96 h	fish	Pimephales promelas	/	/
xylene	LC50	13.1 - 16.5 mg/L	96 h	fish	Lepomis macrochirus	/	/
xylene	LC50	2661 - 4093 mg/L	96 h	fish	Oncorhynchus mykiss	/	/
xylene	LC50	19 mg/L	96 h	fish	Lepomis macrochirus	/	/
xylene	LC50	30.26 - 40.75 mg/L	96 h	fish	Poecilia reticulata	/	/
xylene	LC50	23.53 - 29.97 mg/L	96 h	fish	Pimephales promelas	/	/
xylene	LC50	7711 - 9591 mg/L	96 h	fish	Lepomis macrochirus	/	/
xylene	LC50	780 mg/L	96 h	fish	Cyprinus carpio	/	/
xylene	LC50	> 780 mg/L	96 h	fish	Cyprinus carpio	/	/
xylene	LC50	13.5 - 17.3 mg/L	96 h	fish	Oncorhynchus mykiss	/	/
xylene	EC50	3.82 mg/L	48 h	daphnia	/	/	/

Chronic (long-term) toxicity For components

Name	Type	value	Exposure time	Species	organism	Method	Remark
benzene	LOEC	1.6 mg/l	32 days	fish	<i>Pimephales promelas</i>	ASTM 1984	ECHA
benzene	EbC10	10 mg/l	72 h	algae	<i>Pseudokirchneriel la subcapitata</i>	OECD 201	ECHA
benzene	ErC10	34 mg/l	72 h	algae	<i>Pseudokirchneriel la subcapitata</i>	OECD 201	ECHA
toluene	NOEC	0.74 mg/l	168 h	crustacea	/	/	/

12.2. Persistence and degradability

Abiotic degradation, physical- and photo-chemical elimination
No information.



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Biodegradation For components

Name	Type	Rate	Time	Evaluation	Method	Remark
benzene	oxygen depletion	96 %	28 days	/	OECD 301 F	ECHA
toluene	Half-life	28 days	/	low durability	/	water/soil
toluene	Half-life	4.33 days	/	low durability	/	air

12.3. Bioaccumulative potential

Partition coefficient For components

Name	Media	value	Temperature °C	pH	Concentration	Method
Benzophenone	Octanol-water (log Pow)	3.18	/	/	/	/
toluene	Log Pow	2.73	/	/	/	/
benzene	log Kow	2.13	7.25	/	/	/

Bioconcentration factor (BCF) For components

Name	Species	organism	value	Duration	Evaluation	Method	Remark
benzene	BCF	/	11	/	/	/	/
toluene	BCF	/	90	/	/	/	Low bioaccumulation potential.

12.4. Mobility in soil

No information.

Surface tension

No information.

Adsorption/Desorption For components

Name	Type	Criterion	value	Evaluation	Method	Remark
toluene	Soil	/	268	Translation required (224245)	/	Koc

12.5. Results of PBT and vPvB assessment

No evaluation.

12.6. Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

12.7. Other adverse effects

No information.

12.8. Additional information

For product

Product is not classified as dangerous for environment. Do not allow to reach ground water, water courses or sewage system.



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Section 13: Disposal considerations

13.1. Waste treatment methods

Product / Packaging disposal

Waste chemical

Do not allow product to reach drains/sewage systems. Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste.

Waste codes / waste designations according to LoW

No information.

Packaging

Deliver completely emptied containers to approved waste disposal authorities. Uncleaned containers are classified as hazardous waste - they should be handled in the same manner as the contents. Uncleaned containers should not be perforated, cut or welded. Empty containers represent a fire hazard as they may contain flammable product residues and vapours.

Waste codes / waste designations according to LoW

No information.

Waste treatment-relevant information

No information.

Sewage disposal-relevant information

No information.

Other disposal recommendations

No information.

Section 14: Transport information

ADR/RID	IMDG	IATA	ADN
14.1 UN number or ID number			
Not dangerous according to transport regulations.	Not dangerous according to transport regulations.	Not dangerous according to transport regulations.	Not dangerous according to transport regulations.
14.2 UN proper shipping name			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable
14.3 Transport hazard class(es)			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable
14.4 Packing group			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable
14.5 Environmental hazards			
NO	NO	NO	NO
14.6 Special precautions for user			
Limited quantities Not given/not applicable	Limited quantities Not given/not applicable	Limited quantities Not given/not applicable	Limited quantities Not given/not applicable
14.7 Maritime transport in bulk according to IMO instruments			
	Not given/not applicable		



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Section 15: Regulatory information

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

Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2020/878)

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)
not applicable

Ingredients according to Regulation (EC) No 648/2004 on detergents

No information.

Special instructions

15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

Section 16: Other information

Indication of changes

No information.

Key literature references and sources for data

No information.

Abbreviations and acronyms

ATE - Acute Toxicity Estimate

ADR - Agreement concerning the International Carriage of Dangerous Goods by Road

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways CEN - European Committee for Standardisation

C&L - Classification and Labelling

CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 CAS# - Chemical Abstracts Service number

CMR - Carcinogen, Mutagen, or Reproductive Toxicant CSA - Chemical Safety Assessment

CSR - Chemical Safety Report

DMEL - Derived Minimal Effect Level DNEL - Derived No Effect Level

DPD - Dangerous Preparations Directive 1999/45/EC DSD - Dangerous Substances Directive 67/548/EEC DU - Downstream User

EC - European Community

ECHA - European Chemicals Agency

EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS) EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway) EEC - European Economic Community

EINECS - European Inventory of Existing Commercial Substances ELINCS - European List of notified Chemical Substances

EN - European Standard

EQS - Environmental Quality Standard EU - European Union

Euphrac - European Phrase Catalogue

EWC - European Waste Catalogue (replaced by LoW – see below) GES - Generic Exposure Scenario

GHS - Globally Harmonized System

IATA - International Air Transport Association

ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG - International Maritime Dangerous Goods IMSBC - International Maritime Solid Bulk Cargoes IT - Information Technology

IUCLID - International Uniform Chemical Information Database IUPAC - International Union for Pure Applied Chemistry

JRC - Joint Research Centre

Kow - octanol-water partition coefficient

LC50 - Lethal Concentration to 50 % of a test population

LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose) LE - Legal Entity

LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>) LR - Lead Registrant

M/I - Manufacturer / Importer MS - Member States

MSDS - Material Safety Data Sheet OC - Operational Conditions



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OECD - Organization for Economic Co-operation and Development OEL - Occupational Exposure Limit

OJ - Official Journal

OR - Only Representative

OSHA - European Agency for Safety and Health at work PBT - Persistent, Bioaccumulative and Toxic substance PEC - Predicted Effect Concentration

PNEC(s) - Predicted No Effect Concentration(s)

PPE - Personal Protection Equipment

(Q)SAR - Qualitative Structure Activity Relationship

REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 RID – Regulations concerning the International Carriage of Dangerous Goods by Rail

RIP - REACH Implementation Project RMM - Risk Management Measure

SCBA - Self-Contained Breathing Apparatus SDS - Safety data sheet

SIEF - Substance Information Exchange Forum SME - Small and Medium sized Enterprises STOT - Specific Target Organ Toxicity

(STOT) RE - Repeated Exposure (STOT) SE - Single Exposure

SVHC - Substances of Very High Concern UN - United Nations

vPvB - Very Persistent and Very Bioaccumulative

List of relevant H phrases

H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H340 May cause genetic defects.

H350 May cause cancer.

H361d Suspected of damaging the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.