

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

1.1. Relevant identified uses

Uses advised against : No additional information available

1.2. Details of the supplier of the safety data sheet

Premier Farnell
150 Armley Road
Leeds LS12 2QQ
Tel. : +44 (0) 8701 202530

Emergency telephone number

+44 1865 407333

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

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 – Acute Hazard, Category 1 : H400

Hazardous to the aquatic environment – Chronic Hazard, Category 1 : H410




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) :   
GHS05 GHS07 GHS09

Signal word (CLP) : Warning

Contains : 2-Methyl-2-propenoic acid monoester with 1,2-propanediol; Acetic acid
2-phenylhydrazide ; maleic acid; acrylic acid; prop-2-enoic acid; α , α -dimethylbenzyl hydroperoxide

Hazard statements (CLP) : H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.
H335 - May cause respiratory irritation.
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) : P261 - Avoid breathing vapours.
P264 - Wash hands, forearms and face thoroughly after handling.

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P280 - Wear protective gloves, eye protection, face protection.
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 doctor, a POISON CENTER.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P391 - Collect spillage.

2.3. Other hazards

PBT: not relevant – no registration required

vPvB: not relevant – no registration required

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

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]
2-Methyl-2-propenoic acid monoester with 1,2-propanediol	CAS-No.: 27813-02-1 EC-No.: 248-666-3 REACH-no: 01-2119490226-37	$\geq 20 - < 30$	Eye Irrit. 2, H319 Skin Sens. 1B, H317
2,4,6-Tris(2-propenyloxy)-1,3,5-triazine	CAS-No.: 101-37-1	$\geq 5 - < 10$	Acute Tox. 4 (Oral), H302 (ATE=590 mg/kg bodyweight) Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
acrylic acid; prop-2-enoic acid substance with national workplace exposure limit(s) (AT, BE, BG, CY, CZ, DE, DK, ES, FI, FR, GB, GI, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, IS, NO, RS, CH); substance with a Community workplace exposure limit	CAS-No.: 79-10-7 EC-No.: 201-177-9 EC Index-No.: 607-061-00-8	$\geq 2.5 - < 5$	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1A, H314 STOT SE 3, H335 Aquatic Acute 1, H400
α , α -dimethylbenzyl hydroperoxide substance with national workplace exposure limit(s) (LT, LV)	CAS-No.: 80-15-9 EC-No.: 201-254-7 EC Index-No.: 617-002-00-8 REACH-no: 01-2119475796-19	$\geq 1 - < 2.5$	Org. Perox. E, H242 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Acetic acid 2-phenylhydrazide	CAS-No.: 114-83-0	< 0.5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335

maleic acid	CAS-No.: 110-16-7 EC-No.: 203-742-5 EC Index-No.: 607-095-00-3	<0.5	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Acute Tox. 4 (Dermal), H312 (ATE=1100 mg/kg bodyweight) Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335
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Specific concentration limits:

Name	Product identifier	Specific concentration limits
acrylic acid; prop-2-enoic acid	CAS-No.: 79-10-7 EC-No.: 201-177-9 EC Index-No.: 607-061-00-8	(1 ≤ C ≤ 100) STOT SE 3, H335
α, α-dimethylbenzyl hydroperoxide	CAS-No.: 80-15-9 EC-No.: 201-254-7 EC Index-No.: 617-002-00-8 REACH-no: 01-2119475796-19	(1 ≤ C < 3) Eye Irrit. 2, H319 (1 < C < 10) STOT SE 3, H335 (3 ≤ C < 10) Skin Irrit. 2, H315 (3 ≤ C < 10) Eye Dam. 1, H318 (10 ≤ C ≤ 100) Skin Corr. 1B, H314
maleic acid	CAS-No.: 110-16-7 EC-No.: 203-742-5 EC Index-No.: 607-095-00-3	(0.1 ≤ C ≤ 100) Skin Sens. 1, H317

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 after inhalation : Move the affected person away from the contaminated area and into the fresh air. If you feel unwell, seek medical advice.
- First-aid measures after skin contact : Wash skin with plenty of water. Get medical advice/attention.
- First-aid measures after eye contact : Rinse immediately with plenty of water. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Rinse mouth out with water. Drink plenty of water. Do not induce vomiting

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

Symptoms/effects after eye contact : redness, itching, tears.

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 : Carbon dioxide. Foam. Water spray. Dry powder.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Carbon dioxide. Carbon monoxide.

5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers.
- 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 : Avoid contact with skin and eyes.

6.1.1. For non-emergency personnel

Emergency procedures : Avoid contact with skin and eyes.

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Avoid release to the environment. Do not allow to enter drains or water courses.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage. 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. This material and its container must be disposed of in a safe way, and as per local legislation.

6.4. Reference to other sections

See Section 8. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with eyes. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Provide local exhaust or general room ventilation.

Hygiene measures : Take off immediately all contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product. Wear personal protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a closed container. Store in a well-ventilated place.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

acrylic acid; prop-2-enoic acid (79-10-7)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Acrylic acid; Prop-2-enoic acid
IOEL TWA	29 mg/m ³
IOEL TWA [ppm]	10 ppm
IOEL STEL	59 mg/m ³
IOEL STEL [ppm]	20 ppm
Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164
United Kingdom - Occupational Exposure Limits	
Local name	Acrylic acid (Prop-2-enoic acid)

WEL TWA (OEL TWA) [1]	29 mg/m ³
WEL TWA (OEL TWA) [2]	10 ppm
WEL STEL (OEL STEL)	59 mg/m ³ STEL in relation to a 1-minute reference period
WEL STEL (OEL STEL) [ppm]	20 ppm STEL in relation to a 1-minute reference period
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

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 good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment : Gloves. Safety glasses.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection : Safety glasses (EN 166). Protective goggles (EN 166)

8.2.2.2. Skin protection

Hand protection : Gloves

8.2.2.3. Respiratory protection

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment

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	: Green
Odour	: Irritating
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available

Flash point	: >93°C
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: Not available
Viscosity, dynamic	: 2000 – 3000 cP
Solubility	: Miscible with water.
Partition coefficient	
n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: 1.1 g/cm ³
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions of use. Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Strong acids.

10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide. May liberate toxic gases.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

2-Methyl-2-propenoic acid monoester with 1,2-propanediol (27813-02-1)	
LD50 oral rat	≥ 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit, Animal sex: male

2,4,6-Tris(2-propenyloxy)-1,3,5-triazine (101-37-1)	
LD50 oral rat	590 mg/kg Source: National Library of Medicine
LD50 dermal rabbit	8600 mg/kg Source: National Library of Medicine
acrylic acid; prop-2-enoic acid (79-10-7)	
LD50 oral rat	33.5 – 3200 mg/kg Source: NITE
LD50 dermal rat	300 – 600 mg/kg Source: NITE
LC50 Inhalation - Rat (Vapours)	3.6 mg/l Source: NITE
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	Causes serious eye damage.
Respiratory or skin sensitisation	May cause an allergic skin reaction.
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
acrylic acid; prop-2-enoic acid (79-10-7)	
IARC group	3 - Not classifiable
Reproductive toxicity	Not classified
STOT-single exposure	May cause respiratory irritation.
Acetic acid 2-phenylhydrazide (114-83-0)	
STOT-single exposure	May cause respiratory irritation.
maleic acid (110-16-7)	
STOT-single exposure	May cause respiratory irritation.
acrylic acid; prop-2-enoic acid (79-10-7)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	Not classified
2-Methyl-2-propenoic acid monoester with 1,2-propanediol (27813-02-1)	
LOAEC (inhalation, rat, gas, 90 days)	350 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Remarks on results: other:
NOAEL (oral, rat, 90 days)	300 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
NOAEC (inhalation, rat, gas, 90 days)	100 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Remarks on results: other:
α, α-dimethylbenzyl hydroperoxide (80-15-9)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Very toxic to aquatic life.

Hazardous to the aquatic environment, long-term (chronic) : Very toxic to aquatic life with long lasting effects.

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Not rapidly degradable

Additional information : No data available.

2-Methyl-2-propenoic acid monoester with 1,2-propanediol (27813-02-1)	
LC50 - Fish [1]	233.174 mg/l Source: ECOSAR
EC50 - Crustacea [1]	> 143 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 97.2 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
NOEC (chronic)	45.2 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
2,4,6-Tris(2-propenyloxy)-1,3,5-triazine (101-37-1)	
LC50 - Fish [1]	0.011 mg/l Source: Ecological Structure Activity Relationships
EC50 96h - Algae [1]	0.21 mg/l Source: Ecological Structure Activity Relationships

12.2. Persistence and degradability

Persistence and degradability : Biodegradability in water: no data available.

12.3. Bioaccumulative potential

Bioaccumulative potential : No bioaccumulation data available.

2-Methyl-2-propenoic acid monoester with 1,2-propanediol (27813-02-1)

Partition coefficient n-octanol/water
(Log Pow) : 0.48

Acetic acid 2-phenylhydrazide (114-83-0)

Partition coefficient n-octanol/water
(Log Pow) : 0.7

acrylic acid; prop-2-enoic acid (79-10-7)

Partition coefficient n-octanol/water
(Log Pow) : 0.36 Source: ICSC

12.4. Mobility in soil

2,4,6-Tris(2-propenyloxy)-1,3,5-triazine (101-37-1)

Mobility in soil : 3.828 Source: Quantitative Structure Activity Relation

acrylic acid; prop-2-enoic acid (79-10-7)

Mobility in soil : 6 – 137 Source: ECHA

12.5. Results of PBT and vPvB assessment

PBT: not relevant – no registration required

vPvB: not relevant – no registration required

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Additional information : No other effects known

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

Product/Packaging disposal recommendations : Avoid release to the environment.

HP Code : HP3 - "Flammable:"
– flammable liquid waste: liquid waste having a flash point below 60°C or waste gas

oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75°C;
 – flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air;
 – flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction;
 – flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3kPa;
 – water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities; – other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste.
 HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.
 HP13 - "Sensitising:" waste which contains one or more substances known to cause sensitising effects to the skin or the respiratory organs.
 HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not regulated for transport				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

14.6. Special precautions for user

Overland transport : Not regulated
 Transport by sea : Not regulated
 Air transport : Not regulated
 Inland waterway transport : Not regulated
 Rail transport : Not regulated

14.7. Maritime transport in bulk according to IMO instruments

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

REACH Annex XVII (Restriction List)

Contains no REACH substances with Annex XVII restrictions

REACH Annex XIV (Authorisation List)

Contains no REACH Annex XIV substances

REACH Candidate List (SVHC)

Contains no substance on the REACH candidate list

PIC Regulation (Prior Informed Consent)

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.

POP Regulation (Persistent Organic Pollutants)

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

Ozone Regulation (1005/2009)

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Explosives Precursors Regulation (2019/1148)

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.

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on drug precursors)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Full text of H- and EUH-statements:	
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), 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
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
H226	Flammable liquid and vapour.
H242	Heating may cause a fire.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.

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H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
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.
Org. Perox. E	Organic Peroxides, Type E
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
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

Part Number

MP-RT38-10

MP-RT38-50

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