

HYDROQUINONE MONOMETHYL ETHER (150-76-5)	
Long-term - systemic effects, inhalation	3 mg/m³
PNEC (Water)	
PNEC aqua (freshwater)	0.0136 mg/l
PNEC aqua (marine water)	0.00136 mg/l
PNEC aqua (intermittent, freshwater)	0.03 mg/l
PNEC aqua (intermittent, marine water)	0.003 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.125 mg/kg dwt
PNEC sediment (marine water)	0.0125 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.017 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	10 mg/l

2,2'(4-METHYLPHENYLIMINO)DIETHANOL (3077-12-1)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	0.47 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	3.29 mg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	0.16 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0.58 mg/m³
Long-term - systemic effects, dermal	0.17 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.0264 mg/l
PNEC aqua (marine water)	0.00264 mg/l
PNEC aqua (intermittent, freshwater)	0.26 mg/l
PNEC aqua (intermittent, marine water)	0.0264 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.1214 mg/kg dwt
PNEC sediment (marine water)	0.0121 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.0088 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	10 mg/l

CUMENE HYDROPEROXIDE (80-15-9)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, inhalation	6 mg/m³
PNEC (Water)	
PNEC aqua (freshwater)	0.0031 mg/l

CUMENE HYDROPEROXIDE (80-15-9)	
PNEC aqua (marine water)	0.00031 mg/l
PNEC aqua (intermittent, freshwater)	0.031 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.023 mg/kg dwt
PNEC sediment (marine water)	0.0023 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.0029 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	0.35 mg/l

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 symbol(s):

8.2.2.1. Eye and face protection

Eye protection:
Safety glasses

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

8.2.2.2. Skin protection

Skin and body protection:
Wear suitable protective clothing

Skin and body protection	
Type	**Standard**
Protective clothing	EN 14605

Hand protection:
Protective gloves

Hand protection					
Type	**Material**	**Permeation**	**Thickness (mm)**	**Penetration**	**Standard**
Disposable gloves	Nitrile rubber (NBR)		≥0.4 mm		EN ISO 374

8.2.2.3. Respiratory protection

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

Respiratory protection			
Device	**Filter type**	**Condition**	**Standard**
Full face mask	Filter A1/B1, Type A - High-boiling (>65 °C) organic compounds		EN 14387

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	:	Yellow.
Odour	:	characteristic.
Odour threshold	:	Not available
Melting point	:	No data available.
Freezing point	:	Not applicable
Boiling point	:	Not available
Flammability	:	Non flammable.
Explosive limits	:	Not applicable
Lower explosion limit	:	Not available
Upper explosion limit	:	Not available
Flash point	:	> 93 °C
Auto-ignition temperature	:	No data available.
Decomposition temperature	:	Not available
pH	:	Not applicable.
Viscosity, kinematic	:	Not applicable
Viscosity, dynamic	:	70000 – 130000 mPa.s mPa.s
Solubility	:	Not available
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
Relative vapour density at 20°C	:	No data 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

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

10.2. Chemical stability

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 oxidizing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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

DODECYL METHACRYLATE (142-90-5)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit	> 3000 mg/kg bodyweight Animal: rabbit, Guideline: other:

HYDROQUINONE MONOMETHYL ETHER (150-76-5)	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Guideline: EU Method B.1 tris (Acute Oral Toxicity - Acute Toxic Class Method)
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: other:OECD No 423 Acute Oral Toxicity – Acute Toxic Class Method

N,N-DIMETHYL-P-TOLUIDINE (99-97-8)	
LD50 oral rat	1650 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 oral	139 mg/kg bodyweight Animal: mouse, Guideline: other:
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Remarks on results: other:
LC50 Inhalation - Rat	1.4 mg/l air Animal: rat, Guideline: other:

2,2'(4-METHYLPHENYLIMINO)DIETHANOL (3077-12-1)	
LD50 oral rat	959 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Remarks on results: other:
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity), Guideline: other:

CUMENE HYDROPEROXIDE (80-15-9)	
LC50 Inhalation - Rat [ppm]	220 ppm Animal: rat, Animal sex: male

Skin corrosion/irritation : Not classified
pH: Not applicable.

N,N-DIMETHYL-P-TOLUIDINE (99-97-8)	
pH	7.44 Temp.: 25 °C Concentration: 1 vol%

Serious eye damage/irritation : Causes serious eye irritation.
pH: Not applicable.

N,N-DIMETHYL-P-TOLUIDINE (99-97-8)	
pH	7.44 Temp.: 25 °C Concentration: 1 vol%

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : May cause respiratory irritation.

DODECYL METHACRYLATE (142-90-5)	
STOT-single exposure	May cause respiratory irritation.

1-ACETYL-2-PHENYLHYDRAZINE (114-83-0)	
STOT-single exposure	May cause respiratory irritation.

STOT-repeated exposure : Not classified

HYDROQUINONE MONOMETHYL ETHER (150-76-5)	
LOAEL (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), Guideline: other:EPA OPPTS 870.3650 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
NOAEL (oral, rat, 90 days)	150 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other:EPA OPPTS 870.3650 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

N,N-DIMETHYL-P-TOLUIDINE (99-97-8)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

2,2'(4-METHYLPHENYLIMINO)DIETHANOL (3077-12-1)	
NOAEL (oral, rat, 90 days)	100 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents), Guideline: EU Method B.7 (Repeated Dose (28 Days) Toxicity (Oral)), Guideline: other:

CUMENE HYDROPEROXIDE (80-15-9)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

Lockfast P77	
Viscosity, kinematic	Not applicable

N,N-DIMETHYL-P-TOLUIDINE (99-97-8)	
Viscosity, kinematic	16.364 mm^2/s

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

11.2.2. Other information

Potential adverse human health effects and symptoms : No data available

SECTION 12: Ecological information

12.1. Toxicity

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

HYDROQUINONE MONOMETHYL ETHER (150-76-5)	
LC50 - Fish [1]	28.5 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	3 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	54.7 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	19 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
LOEC (chronic)	> 1.45 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	0.68 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

N,N-DIMETHYL-P-TOLUIDINE (99-97-8)	
LC50 - Fish [1]	46 mg/l Test organisms (species): Pimephales promelas
EC50 72h - Algae [1]	2437002 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

2,2'(4-METHYLPHENYLIMINO)DIETHANOL (3077-12-1)	
LC50 - Fish [1]	> 100 mg/l Test organisms (species): Cyprinus carpio
EC50 - Crustacea [1]	48 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)

CUMENE HYDROPEROXIDE (80-15-9)	
LC50 - Fish [1]	3.9 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	18.84 mg/l Test organisms (species): Daphnia magna

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. 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.
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 or ID number				
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 substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 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 the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

France

Occupational diseases	
Code	Description
RG 65	Eczematiform lesions of allergic mechanism

Germany

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

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

Denmark

Classification remarks : 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 10/12 - Liquids

15.2. Chemical safety assessment

No chemical safety assessment has been carried out