



Safety Data Sheet

Flints Lantern Black Spray Paint FHSMBS

Safety Data Sheet dated 2/10/2023, version 1 2/10/2023

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

1.1. Product identifier

Mixture identification:

Trade name: Flints Lantern Black Spray Paint

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

Recommended use:

Spray Paint

1.3. Details of the supplier of the safety data sheet

Flint Hire & Supply Ltd

Unit 2

Newton's Court

Crossways Business Park

Dartford

DA2 6QL

Email: sales@flints.co.uk

1.4. Emergency telephone number

Phone Number: 020 77039 786

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture EC regulation criteria 1272/2008 (CLP)

⚠ Danger, Aerosols 1, Extremely flammable aerosol. Pressurized container: may burst if heated.

⚠ Warning, Eye Irrit. 2, Causes serious eye irritation.

⚠ Warning, Skin Sens. 1A, May cause an allergic skin reaction.

⚠ Warning, STOT SE 3, May cause drowsiness or dizziness.



EUH066 Repeated exposure may cause skin dryness or cracking. Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Danger

Hazard statements:

H222, H229 Extremely flammable aerosol. Pressurized container: may burst if heated. H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H336 May cause drowsiness or dizziness.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves and eye protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F. P501 Dispose of contents/ container in accordance with applicable regulations.

Special Provisions:

EUH066 Repeated exposure may cause skin dryness or cracking. Contains

acetone; propan-2-one; propanone

n-butyl acetate

isobutyl acetate

Condensation products of dimerised fatty acids, C18-unsaturated, with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration \geq 0.1% Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

Hazardous components within the meaning of the CLP regulation and related classification: \geq 30% - < 40%

acetone; propan-2-one; propanone

REACH No.: 01-2119471330-49, Index number: 606-001-00-8, CAS: 67-64-1, EC: 200-662-2

⚠ 2.6/2 Flam. Liq. 2 H225 3.3/2

⚠ Eye Irrit. 2 H319 3.8/3 STOT

⚠ SE 3 H336

EUH066

\geq 15% - < 20% propane

REACH No.: 01-2119486944-21, Index number: 601-003-00-5, CAS: 74-98-6, EC: 200-827-9

⚠ 2.2/1A Flam. Gas 1A H220

N.A.
3.2. Mixtures

◇ 2.5 Press. Gas H280
DECLK (CLP)*

>= 7% - < 10% n-butyl acetate

REACH No.: 01-2119485493-29, Index number: 607-025-00-1, CAS: 123-86-4, EC: 204-658-1

◇ 2.6/3 Flam. Liq. 3 H226

◇ 3.1/3 STOT SE 3 H336

EUH066

>= 5% - < 7% butane

REACH No.: 01-2119474691-32, Index number: 601-004-00-0, CAS: 106-97-8, EC: 203-448-7

◇ 2.2/1A Flam. Gas 1A H220

◇ 2.5 Press. Gas H280

DECLK (CLP)*

>= 3% - < 5% Talc

REACH No.: 01-2120140278-58, CAS: 14807-96-6, EC: 238-877-9 Substance with a Union workplace exposure limit.

>= 3% - < 5% Calcium carbonate

CAS: 1317-65-3, EC: 215-279-6

Substance with a Union workplace exposure limit.

>= 3% - < 5% Manganese ferrite black spinel; Pigment Black 33 (C.I. 77537)

REACH No.: 01-2119457599-19, CAS: 68186-94-7, EC: 269-056-3 Substance with a Union workplace exposure limit.

>= 2.5% - < 3% isobutane

REACH No.: 01-2119485395-27, Index number: 601-004-00-0, CAS: 75-28-5, EC: 200-857-2

◇ 2.2/1A Flam. Gas 1A H220

◇ Press. Gas H280

DECLK (CLP)*

>= 2.5% - < 3% 2-butoxyethanol; ethylene glycol monobutyl ether

REACH No.: 01-2119475108-36, Index number: 603-014-00-0, CAS: 111-76-2, EC: 203-905-0

◇ 3.1/3/Inhal Acute Tox. 3 H331 3.1/4/

◇ Oral Acute Tox. 4 H302 3.2/2 Skin

◇ Irrit. 2 H315

◇ 3.3/2 Eye Irrit. 2 H319

Acute Toxicity Estimate:

ATE - Oral 1200 mg/kg bw ATE -

Inhalation (Vapours) 3 mg/l

>= 1% - < 2.5% isobutyl acetate

REACH No.: 01-2119488971-22, Index number: 607-026-00-7, CAS: 110-19-0, EC: 203-745-1

◇ 2.6/2 Flam. Liq. 2 H225

◇ 3.8/3 STOT SE 3 H336

EUH066

>= 1% - < 2.5% xylene (mixture of isomers)

REACH No.: 01-2119488216-32, Index number: 601-022-00-9, CAS: 1330-20-7, EC: 215-535-7

◇ 2.6/3 Flam. Liq. 3 H226 3.10/1

◇ Asp. Tox. 1 H304

◇

- 3.3/2 Eye Irrit. 2 H319
- ⚠ 3.8/3 STOT SE 3 H335
- ⚠ 3.9/2 STOT RE 2 H373
- ⚠ 3.2/2 Skin Irrit. 2 H315
- ⚠ 3.1/4/Dermal Acute Tox. 4 H312 3.1/4/
- ⚠ Inhal Acute Tox. 4 H332
- 4.1/C3 Aquatic Chronic 3 H412

>= 0.5% - < 1% titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 μm]

REACH No.: 01-2119489379-17, Index number: 022-006-00-2, CAS: 13463-67-7, EC: 236-675-5

- ⚠ 3.6/2 Carc. 2 H351

>= 0.5% - < 1% ethylbenzene

REACH No.: 01-2119489370-35, Index number: 601-023-00-4, CAS: 100-41-4, EC: 202-849-4

- ⚠ 2.6/2 Flam. Liq. 2 H225 3.1/4/Inhal
- ⚠ Acute Tox. 4 H332 3.9/2 STOT RE 2
- ⚠ H373 3.10/1 Asp. Tox. 1 H304
- ⚠

>= 0.25% - < 0.3% 2-methoxy-1-methylethyl acetate

REACH No.: 01-2119475791-29, Index number: 607-195-00-7, CAS: 108-65-6, EC: 203-603-9

- ⚠ 2.6/3 Flam. Liq. 3 H226 3.8/3
- ⚠ STOT SE 3 H336

>= 0.1% - < 0.25% reaction mass of ethylbenzene and xylene

REACH No.: 01-2119539452-40, EC: 905-588-0

- ⚠ 2.6/3 Flam. Liq. 3 H226
- ⚠ 3.1/4/Dermal Acute Tox. 4 H312 3.1/4/
- ⚠ Inhal Acute Tox. 4 H332 3.10/1 Asp. Tox.
- ⚠ 1 H304
- ⚠ 3.2/2 Skin Irrit. 2 H315
- ⚠ 3.3/2 Eye Irrit. 2 H319
- ⚠ 3.8/3 STOT SE 3 H335
- ⚠ 3.9/2 STOT RE 2 H373

Specific Concentration Limits: C >=

10%: STOT RE 2 H373

>= 0.1% - < 0.25% Condensation products of dimerised fatty acids, C18-unsaturated, with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine

REACH No.: 01-2119970640-38, CAS: 162627-17-0, EC: 605-296-0

- ⚠ 3.4.2/1A Skin Sens. 1A H317

>= 0.1% - < 0.25% Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

REACH No.: 01-2119463258-33, CAS: 64742-48-9, EC: 919-857-5

- ⚠ 2.6/3 Flam. Liq. 3 H226 3.10/1
- ⚠ Asp. Tox. 1 H304 3.8/3 STOT SE
- ⚠ 3 H336
- EUH066

943 ppm 1-methoxy-2-propanol; monopropylene glycol methyl ether

REACH No.: 01-2119457435-35, Index number: 603-064-00-3, CAS: 107-98-2, EC: 203-539-1

- ⚠ 2.6/3 Flam. Liq. 3 H226 3.8/3
- ⚠ STOT SE 3 H336

403 ppm Silicon dioxide, chemically prepared [CAS-No. 112945-52-5 resp. 7631-86-9]
REACH No.: 01-2119379499-16, CAS: 7631-86-9, EC: 231-545-4 Substance with a Union workplace exposure limit.

320 ppm propan-2-ol; isopropyl alcohol; isopropanol
REACH No.: 01-2119457558-25, Index number: 603-117-00-0, CAS: 67-63-0, EC: 200-661-7
⚠ 2.6/2 Flam. Liq. 2 H225 3.3/2
⚠ Eye Irrit. 2 H319 3.8/3 STOT
⚠ SE 3 H336

280 ppm trans-1,3,3,3-Tetrafluoroprop-1-ene
REACH No.: 01-0000019758-54, CAS: 1645-83-6, EC: 471-480-0
⚠ 2.5/C Press Gas (Comp.) H280

193 ppm methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate
REACH No.: 01-2119452498-28, Index number: 607-035-00-6, CAS: 80-62-6, EC: 201-297-1
⚠ 2.6/2 Flam. Liq. 2 H225 3.8/3
⚠ STOT SE 3 H335 3.2/2 Skin Irrit. 2
⚠ H315 3.4.2/1 Skin Sens. 1 H317
⚠

187 ppm 2-Pentanone oxime
REACH No.: 01-0000020248-72, CAS: 623-40-5, EC: 484-470-6
⚠ 3.1/4/Oral Acute Tox. 4 H302 3.3/2
⚠ Eye Irrit. 2 H319
⚠ 3.9/2 STOT RE 2 H373
4.1/C3 Aquatic Chronic 3 H412 154 ppm

n-butyl methacrylate
REACH No.: 01-2119486394-28, Index number: 607-033-00-5, CAS: 97-88-1, EC: 202-615-1
⚠ 2.6/3 Flam. Liq. 3 H226 3.3/2 Eye
⚠ Irrit. 2 H319 3.8/3 STOT SE 3
⚠ H335 3.2/2 Skin Irrit. 2 H315
⚠ 3.4.2/1 Skin Sens. 1 H317
⚠

22 ppm methanol
REACH No.: 01-2119433307-44, Index number: 603-001-00-X, CAS: 67-56-1, EC: 200-659-6
⚠ 2.6/2 Flam. Liq. 2 H225
⚠ 3.8/1 STOT SE 1 H370
⚠ 3.1/3/Oral Acute Tox. 3 H301 3.1/3/
⚠ Dermal Acute Tox. 3 H311 3.1/3/Inhal
⚠ Acute Tox. 3 H331

Specific Concentration Limits:

C >= 10%: STOT SE 1 H370

3% <= C < 10%: STOT SE 2 H371

*DECLK (CLP): Substance classified in accordance with Note K, Annex VI of EC Regulation (EC) 1272/2008. The harmonised classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0,1 % w/w 1,3-butadiene (Einesc No 203-450-8), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard classes. Where the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-)P210-P403 shall apply.

SECTION 4: First aid measures

4.1. Description of first aid measures In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap. Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation: Remove casualty to fresh air and keep warm and at rest.

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

None

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

None

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

CO2 or Dry chemical fire extinguisher.

Extinguishing media which must not be used for safety reasons: None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke. 5.3.

Advice for firefighters

The heat causes an increase in pressure inside the container with danger of bursting. In case of fire the aerosols bursting can be projected to distance with violence, with risk of propagation of the fire.

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment. Remove all sources of ignition.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
 Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

7.2. Conditions for safe storage, including any incompatibilities

Vapours are more weighty than air. Vapours may form explosive mixture with air.

Store at below 20 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight. Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

Product belongs to category:	Lower-tier threshold (tonnes)	Upper-tier threshold (tonnes)
P3a	150	500

7.3. Specific end use(s) None
 in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

acetone; propan-2-one; propanone - CAS: 67-64-1

EU - TWA(8h): 1210 mg/m³, 500 ppm

ACGIH - TWA(8h): 250 ppm - STEL: 500 ppm - Notes: A4, BEI - URT and eye irr, CNS impair

MAK - TWA(8h): 1200 mg/m³, 500 ppm - STEL: 2400 mg/m³, 1000 ppm - Notes: SWISS

National - TWA(8h): 1210 mg/m³, 500 ppm - STEL: 3620 mg/m³, 1500 ppm - Notes: HR - CROATIA

propane - CAS: 74-98-6

EU - TWA(8h): 1800 mg/m³, 1000 ppm

TLV - TWA(8h): 1800 mg/m³, 1000 ppm - STEL: 3600 mg/m³, 2000 ppm - Notes: AUSTRIA, DENMARK

TLV - TWA(8h): 1500 mg/m³, 800 ppm - STEL: 2000 mg/m³, 1100 ppm - Notes: FINLAND

TLV - TWA(8h): 1400 mg/m³, 778 ppm - STEL: 1800 mg/m³, 1000 ppm - Notes: ROMANIA
 TLV - TWA(8h): 1800 mg/m³, 1000 ppm - STEL: 7200 mg/m³, 4000 ppm - Notes: GERMANY
 MAK - TWA(8h): 1800 mg/m³, 1000 ppm - STEL: 7200 mg/m³, 4000 ppm - Notes: SWISS
 ACGIH - Notes: (D, EX) - Asphyxia

n-butyl acetate - CAS: 123-86-4

ACGIH - TWA(8h): 50 ppm - STEL: 150 ppm - Notes: Eye and URT irr
 MAK - TWA(8h): 480 mg/m³, 100 ppm - STEL: 960 mg/m³, 200 ppm - Notes: GERMANY
 GVI - TWA(8h): 724 mg/m³, 150 ppm - STEL: 966 mg/m³, 200 ppm - Notes: CROATIA VLA - TWA(8h): 724 mg/m³, 150 ppm - STEL: 965 mg/m³, 200 ppm - Notes: SPAIN TLV - TWA(8h): 950 mg/m³ - STEL: 1200 mg/m³ - Notes: CZECH REPUBLIC
 VLEP - TWA(8h): 710 mg/m³, 150 ppm - STEL: 940 mg/m³, 200 ppm - Notes: FRANCE National - TWA(8h): 724 mg/m³, 150 ppm - STEL: 966 mg/m³, 200 ppm - Notes: UNITED KINGDOM
 MAK - TWA(8h): 480 mg/m³, 100 ppm - STEL: 960 mg/m³, 200 ppm - Notes: SWISS

EU - TWA(8h): 241 mg/m³, 50 ppm - STEL: 723 mg/m³, 150 ppm butane - CAS:
 106-97-8

EU - TWA(8h): 1450 mg/m³, 600 ppm - STEL: 1810 mg/m³, 750 ppm
 TLV - TWA(8h): 1600 mg/m³, 800 ppm - STEL: 3800 mg/m³, 1600 ppm - Notes: AUSTRIA, DENMARK
 TLV - TWA(8h): 1900 mg/m³, 800 ppm - STEL: 2400 mg/m³, 1000 ppm - Notes: FINLAND
 TLV - TWA(8h): 1900 mg/m³, 800 ppm - Notes: FRANCE
 TLV - TWA(8h): 2400 mg/m³, 1000 ppm - STEL: 9600 mg/m³, 4000 ppm - Notes: GERMANY
 MAK - TWA(8h): 1900 mg/m³, 800 ppm - STEL: 7600 mg/m³, 3200 ppm - Notes: SWISS

ACGIH - STEL: 1000 ppm - Notes: (EX) - CNS impair Talc - CAS:
 14807-96-6

EU - TWA(8h): 2 mg/m³
 MAK - TWA(8h): 2 mg/m³ - Notes: CH - SWISS
 ACGIH - TWA(8h): 2 mg/m³ - Notes: Containing no asbestos fibers. (E,R), A4 - Pulm
 fibrosis, pulm func
 Calcium carbonate - CAS: 1317-65-3

EU - TWA(8h): 10 mg/m³ - STEL(8h): 3 mg/m³

Manganese ferrite black spinel; Pigment Black 33 (C.I. 77537) - CAS: 68186-94-7

EU - TWA: 0.2 mg/m³ - Notes: inhalable fraction (Manganese)
 EU - TWA: 0.05 mg/m³ - Notes: respirable fraction (Manganese) ACGIH - TWA: 0.1 mg/
 m³ - Notes: inhalable fraction (Manganese) ACGIH - TWA: 0.02 mg/m³ - Notes:
 respirable fraction (Manganese)

isobutane - CAS: 75-28-5

EU - TWA(8h): 2400 mg/m³, 1000 ppm - STEL: 9600 mg/m³, 4000 ppm
 TLV - TWA(8h): 1900 mg/m³, 800 ppm - STEL: 2400 mg/m³, 1000 ppm - Notes: FINLAND
 MAK - TWA(8h): 1900 mg/m³, 800 ppm - STEL: 7600 mg/m³, 3200 ppm - Notes: SWISS
 ACGIH - STEL: 1000 ppm - Notes: (EX) - CNS impair

2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2

EU - TWA(8h): 98 mg/m³, 20 ppm - STEL: 246 mg/m³, 50 ppm - Notes: Skin ACGIH - TWA(8h): 20 ppm -
 Notes: A3, BE1 - Eye and URT irr
 MAK - TWA(8h): 49 mg/m³, 10 ppm - STEL: 98 mg/m³, 20 ppm - Notes: SWISS MAK - TWA(8h): 98 mg/m³, 20
 ppm - STEL(): 200 mg/m³, 40 ppm - Notes: AUSTRIA TLV - TWA(8h): 100 mg/m³ - STEL(): 200 mg/m³ - Notes:
 CZECH REPUBLIC
 MAK - TWA(8h): 49 mg/m³, 10 ppm - STEL(): 98 mg/m³, 20 ppm - Notes: GERMANY

VLEP - TWA(8h): 49 mg/m³, 10 ppm - STEL(): 246 mg/m³, 50 ppm - Notes: FRANCE National - TWA(8h): 123 mg/m³, 25 ppm - STEL(): 246 mg/m³, 50 ppm - Notes: UNITED KINGDOM: Skin

National - TWA(8h): 98 mg/m³, 20 ppm - STEL(): 245 mg/m³, 50 ppm - Notes: SPAIN isobutyl acetate - CAS: 110-19-0

ACGIH - TWA(8h): 50 ppm - STEL: 150 ppm - Notes: Eye and URT irr
 MAK - TWA(8h): 480 mg/m³, 100 ppm - STEL: 960 mg/m³, 200 ppm - Notes: SWISS GVI - TWA(8h): 724 mg/m³, 150 ppm - STEL: 903 mg/m³, 187 ppm - Notes: CROATIA VLA - TWA(8h): 724 mg/m³, 150 ppm - Notes: SPAIN
 TLV - TWA(8h): 950 mg/m³ - STEL: 1200 mg/m³ - Notes: CZECH REPUBLIC National - TWA(8h): 300 mg/m³, 62 ppm - STEL: 600 mg/m³, 124 ppm - Notes: GERMANY
 VLEP - TWA(8h): 710 mg/m³, 150 ppm - STEL: 940 mg/m³, 200 ppm - Notes: FRANCE

EU - TWA(8h): 241 mg/m³, 50 ppm - STEL: 723 mg/m³, 150 ppm xylene (mixture of isomers) - CAS: 1330-20-7

EU - TWA(8h): 221 mg/m³, 50 ppm - STEL: 442 mg/m³, 100 ppm - Notes: Skin ACGIH - TWA(8h): 20 ppm - Notes: A4, BEI - URT and eye irr; hematologic eff; CNS impair
 MAK - TWA(8h): 435 mg/m³, 100 ppm - STEL: 870 mg/m³, 200 ppm - Notes: CH -

SWISS

titanium dioxide; [in powder form containing 1% or more of particles with aerodynamic diameter ≤ 10 μm] - CAS: 13463-67-7

ACGIH - TWA(8h): 0.2 mg/m³ - Notes: Nanoscale particles; (R); A3 - LRT irr, pneumoconiosis
 ACGIH - TWA(8h): 2.5 mg/m³ - Notes: Finescale particles; (R); A3 - LRT irr,

pneumoconiosis ethylbenzene - CAS: 100-41-4

EU - TWA(8h): 442 mg/m³, 100 ppm - STEL: 884 mg/m³, 200 ppm - Notes: Skin ACGIH - TWA(8h): 20 ppm - Notes: OTO; A3, BEI - URT & eye irr; ototoxicity; kidney eff; CNS impair
 MAK - TWA(8h): 220 mg/m³, 50 ppm - STEL: 220 mg/m³, 50 ppm - Notes: SWISS National - TWA(8h): 442 mg/m³, 100 ppm - STEL: 884 mg/m³, 200 ppm - Notes: CROATIA - K (Skin)

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

EU - TWA(8h): 275 mg/m³, 50 ppm - STEL: 550 mg/m³, 100 ppm - Notes: Skin
 MAK - TWA(8h): 275 mg/m³, 50 ppm - STEL: 275 mg/m³, 50 ppm - Notes: SWISS MAK - TWA(8h): 270 mg/m³, 50 ppm - STEL: 270 mg/m³, 50 ppm - Notes: GERMANY National - TWA(8h): 274 mg/m³, 50 ppm - STEL: 548 mg/m³, 100 ppm - Notes: GREAT BRITAIN

reaction mass of ethylbenzene and xylene

EU - TWA(8h): 221 mg/m³, 50 ppm - STEL: 442 mg/m³, 100 ppm - Notes: Bold-type: Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)
 ACGIH - TWA(8h): 100 ppm - STEL: 150 ppm - Notes: A4, BEI - URT and eye irr, CNS impair

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics - CAS: 64742-48-9

ACGIH - TWA(8h): 1200 mg/m³, 197 ppm
 MAK - TWA(8h): 300 mg/m³, 50 ppm - STEL: 600 mg/m³, 100 ppm - Notes: CH - SWISS
 NIOSH - TWA: 350 mg/m³ - STEL: 1800 mg/m³
 OSHA - TWA: 2900 mg/m³, 500 ppm - Notes: USA - UNITED STATES National - TWA: 300 mg/m³ - STEL: 900 mg/m³ - Notes: PL - POLAND

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

EU - TWA(8h): 375 mg/m³, 100 ppm - STEL: 563 mg/m³, 150 ppm - Notes: Skin ACGIH - TWA(8h): 50 ppm - STEL: 100 ppm - Notes: A4 - Eye and URT irr
 MAK - TWA(8h): 360 mg/m³, 100 ppm - STEL: 720 mg/m³, 200 ppm - Notes: CH - SWISS

MAK - TWA(8h): 187 mg/m³, 50 ppm - STEL(): 187 mg/m³, 50 ppm - Notes: AT - AUSTRIA
 TLV - TWA(8h): 270 mg/m³ - STEL(): 550 mg/m³ - Notes: CZ - CZECH REP. MAK - TWA(8h): 370 mg/m³, 100 ppm - STEL(): 740 mg/m³, 200 ppm - Notes: DE - GERMANY
 VLEP - TWA(8h): 188 mg/m³, 50 ppm - STEL(): 375 mg/m³, 10 ppm - Notes: FR - FRANCE
 GVI - TWA(8h): 375 mg/m³, 100 ppm - STEL: 568 mg/m³, 150 ppm - Notes: HR -

CROATIA: K (Skin)

Silicon dioxide, chemically prepared [CAS-No. 112945-52-5 resp. 7631-86-9] - CAS: 7631-86-9

EU - TWA(8h): 3 mg/m³ - Notes: Type of exposure: Respirable Particles (IT) EU - TWA(8h): 10 mg/m³ - Notes: Type of exposure: Inhalable particles (IT) MAK - TWA(8h): 4 mg/m³ - Notes: SWISS, SSc

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0

ACGIH - TWA(8h): 200 ppm - STEL: 400 ppm - Notes: A4, BEI - Eye and URT irr, CNS impair
 MAK - TWA(8h): 500 mg/m³, 200 ppm - STEL: 1000 mg/m³, 400 ppm - Notes: SWISS GVI - TWA(8h): 999 mg/m³, 400 ppm - STEL: 1250 mg/m³, 500 ppm - Notes: CROATIA VLA - TWA(8h): 500 mg/m³, 200 ppm - STEL: 1000 mg/m³, 440 ppm - Notes: SPAIN - VLB, s
 TLV - TWA(8h): 500 mg/m³ - STEL: 1000 mg/m³ - Notes: CZECH REPUBLIC
 MAK - TWA(8h): 500 mg/m³, 200 ppm - STEL: 1000 mg/m³, 400 ppm - Notes: GERMANY
 VLEP - STEL: 980 mg/m³, 400 ppm - Notes: FRANCE
 National - TWA(8h): 999 mg/m³, 400 ppm - STEL: 1250 mg/m³, 500 ppm - Notes: UNITED KINGDOM

trans-1,3,3,3-Tetrafluoroprop-1-ene - CAS: 1645-83-6

EU - TWA(8h): 4700 mg/m³, 1000 ppm - STEL: 9400 mg/m³, 2000 ppm
 MAK - TWA(8h): 4700 mg/m³, 1000 ppm - STEL: 9400 mg/m³, 2000 ppm - Notes: SWISS

methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate - CAS: 80-62-6

EU - TWA(8h): 50 ppm - STEL: 100 ppm
 ACGIH - TWA(8h): 50 ppm - STEL: 100 ppm - Notes: DSEN, A4 - URT and eye irr, body weight eff, pulm edema
 MAK - TWA(8h): 210 mg/m³, 50 ppm - STEL: 420 mg/m³, 100 ppm - Notes: CH - SWISS

methanol - CAS: 67-56-1

EU - TWA(8h): 260 mg/m³, 200 ppm - Notes: Skin
 ACGIH - TWA(8h): 200 ppm - STEL: 250 ppm - Notes: Skin, BEI - Headache, eye dam, dizziness, nausea
 MAK - TWA(8h): 260 mg/m³, 200 ppm - STEL: 1040 mg/m³, 800 ppm - Notes:

CH-SWISS

DNEL Exposure Limit Values

acetone; propan-2-one; propanone - CAS: 67-64-1

Worker Industry: 186 mg/kg - Worker Professional: 186 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
 Worker Industry: 2420 mg/m³ - Worker Professional: 2420 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects
 Worker Industry: 1210 mg/m³ - Worker Professional: 1210 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
 Consumer: 62 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects Consumer: 62 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
 Consumer: 200 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

n-butyl acetate - CAS: 123-86-4

Worker Industry: 600 mg/m³ - Worker Professional: 600 mg/m³ - Consumer: 300 mg/m³

- Exposure: Human Inhalation - Frequency: Short Term, local effects
Worker Industry: 300 mg/m³ - Worker Professional: 300 mg/m³ - Consumer: 35.7 mg/m³
- Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Industry: 11 mg/kg - Worker Professional: 11 mg/kg - Consumer: 6 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 2 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
- Manganese ferrite black spinel; Pigment Black 33 (C.I. 77537) - CAS: 68186-94-7
Worker Industry: 10 mg/m³ - Worker Professional: 10 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Industry: 10 mg/m³ - Worker Professional: 10 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects
- 2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2
Worker Industry: 89 mg/kg - Consumer: 89 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects
Worker Industry: 1091 mg/m³ - Consumer: 426 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Worker Industry: 246 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects
Worker Industry: 125 mg/kg - Consumer: 75 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Industry: 98 mg/m³ - Consumer: 59 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 26.7 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

- isobutyl acetate - CAS: 110-19-0
Worker Industry: 300 mg/m³ - Worker Professional: 300 mg/m³ - Consumer: 35.7 mg/m³
- Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Industry: 600 mg/m³ - Worker Professional: 600 mg/m³ - Consumer: 300 mg/m³
- Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Worker Industry: 10 mg/kg - Worker Professional: 10 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Industry: 10 - Worker Professional: 10 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects
Consumer: 5 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
- xylene (mixture of isomers) - CAS: 1330-20-7
Worker Industry: 442 mg/m³ - Worker Professional: 442 mg/m³ - Consumer: 260 mg/m³
- Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Worker Industry: 221 mg/m³ - Worker Professional: 221 mg/m³ - Consumer: 65.3 mg/m³
- Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Industry: 212 mg/kg - Worker Professional: 212 mg/kg - Consumer: 125 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 12.5 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

- titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] - CAS: 13463-67-7
Worker Industry: 10 mg/m³ - Worker Professional: 10 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects
Consumer: 700 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
- ethylbenzene - CAS: 100-41-4
Worker Industry: 77 mg/m³ - Worker Professional: 77 mg/m³ - Consumer: 15 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Industry: 293 mg/m³ - Worker Professional: 293 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Worker Industry: 180 mg/kg - Worker Professional: 180 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 1.6 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
- 2-methoxy-1-methylethyl acetate - CAS: 108-65-6

Consumer: 36 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects Worker Industry: 275 mg/m³ - Worker Professional: 275 mg/m³ - Consumer: 33 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
 Worker Industry: 796 mg/kg - Worker Professional: 796 mg/kg - Consumer: 320 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
 Worker Industry: 550 mg/m³ - Worker Professional: 550 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects
 Consumer: 500 mg/kg - Exposure: Human Oral - Frequency: Short Term, systemic effects

reaction mass of ethylbenzene and xylene

Worker Industry: 289 mg/m³ - Worker Professional: 289 mg/m³ - Consumer: 174 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
 Worker Industry: 180 mg/kg - Worker Professional: 180 mg/kg - Consumer: 108 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
 Worker Industry: 77 mg/m³ - Worker Professional: 77 mg/m³ - Consumer: 14.8 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
 Consumer: 1.6 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics - CAS: 64742-48-9

Worker Industry: 208 mg/kg - Worker Professional: 208 mg/kg - Consumer: 125 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
 Worker Industry: 871 mg/m³ - Worker Professional: 871 mg/kg - Consumer: 185 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
 Consumer: 125 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

Consumer: 33 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects Worker Industry: 369 mg/m³ - Worker Professional: 369 mg/m³ - Consumer: 43.9 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
 Worker Industry: 183 mg/kg - Worker Professional: 183 mg/m³ - Consumer: 78 mg/m³ - Exposure: Human Dermal - Frequency: Long Term, systemic effects
 Worker Industry: 553.5 mg/m³ - Worker Professional: 553.5 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
 Worker Industry: 553.5 mg/m³ - Worker Professional: 553.5 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

Silicon dioxide, chemically prepared [CAS-No. 112945-52-5 resp. 7631-86-9] - CAS: 7631-86-9

Worker Industry: 4 mg/m³ - Worker Professional: 4 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects
 Worker Industry: 4 mg/m³ - Worker Professional: 4 mg/m³ - Frequency: Long Term, systemic effects

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0

Worker Industry: 500 mg/m³ - Worker Professional: 500 mg/m³ - Consumer: 89 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
 Worker Industry: 888 mg/kg - Worker Professional: 888 mg/kg - Consumer: 319 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
 Consumer: 26 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects Worker Industry: 1000 mg/m³ - Worker Professional: 1000 mg/m³ - Consumer: 178 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects Consumer: 51 mg/kg - Exposure: Human Oral - Frequency: Short Term, systemic effects

trans-1,3,3,3-Tetrafluoroprop-1-ene - CAS: 1645-83-6

Worker Industry: 3902 mg/m³ - Worker Professional: 3902 mg/m³ - Consumer: 830 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate - CAS: 80-62-6

Worker Industry: 208 mg/m³ - Worker Professional: 208 mg/m³ - Consumer: 74.3 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
 Worker Industry: 1.5 04 - Worker Professional: 1.5 04 - Consumer: 1.5 04 - Exposure: Human Dermal - Frequency: Short Term, local effects
 Worker Industry: 13.67 mg/kg - Worker Professional: 13.67 mg/kg - Consumer: 8.2 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

2-Pentanone oxime - CAS: 623-40-5

Worker Industry: 25 mg/m³ - Worker Professional: 25 mg/m³ - Consumer: 6.22 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 75 mg/m³ - Worker Professional: 75 mg/m³ - Consumer: 18.66 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Industry: 0.208 mg/kg - Worker Professional: 0.208 mg/kg - Consumer: 0.125 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 0.624 mg/kg - Worker Professional: 0.624 mg/kg - Consumer: 0.375 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects Consumer: 0.125 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

methanol - CAS: 67-56-1

Worker Professional: 260 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 260 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

Worker Professional: 40 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 50 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 50 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

Consumer: 8 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

acetone; propan-2-one; propanone - CAS: 67-64-1

Target: Freshwater sediments - Value: 30.4 mg/kg Target:

Marine water sediments - Value: 3.04 mg/kg Target: Soil

(agricultural) - Value: 29.5 mg/kg Target: Fresh Water - Value: 10.6 mg/l

Target: Marine water - Value: 1.06 mg/l

n-butyl acetate - CAS: 123-86-4

Target: Fresh Water - Value: 0.18 mg/l

Target: Marine water - Value: 0.018 mg/l

Target: Freshwater sediments - Value: 0.981 mg/kg Target: Marine

water sediments - Value: 0.098 mg/kg Target: Soil (agricultural) -

Value: 0.09 mg/kg

2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2

Target: Freshwater sediments - Value: 34.6 mg/kg Target:

Marine water sediments - Value: 3.46 mg/kg Target: Soil

(agricultural) - Value: 2.33 mg/kg Target: Fresh Water - Value:

8.8 mg/l

Target: Marine water - Value: 0.88 mg/l

isobutyl acetate - CAS: 110-19-0

Target: Fresh Water - Value: 0.17 mg/l

Target: Marine water - Value: 0.017 mg/l

Target: Freshwater sediments - Value: 0.877 mg/kg

Target: Marine water sediments - Value: 0.0877 mg/kg Target: Microorganisms

in sewage treatments - Value: 200 mg/l

xylene (mixture of isomers) - CAS: 1330-20-7

Target: Fresh Water - Value: 0.327 mg/l

Target: Marine water - Value: 0.327 mg/l

Target: Freshwater sediments - Value: 12.46 mg/kg Target: Marine

water sediments - Value: 12.46 mg/kg Target: Soil (agricultural) -

Value: 2.31 mg/l

titanium dioxide; [in powder form containing 1% or more of particles with aerodynamic diameter <= 10 μm] - CAS: 13463-67-7

Target: Fresh Water - Value: 0.184 mg/l
 Target: Freshwater sediments - Value: 1000 mg/kg Target:
 Marine water - Value: 0.0184 mg/l Target: Marine water
 sediments - Value: 100 mg/kg Target: Soil (agricultural) - Value:
 100 mg/kg

ethylbenzene - CAS: 100-41-4

Target: Fresh Water - Value: 0.1 mg/l
 Target: Marine water - Value: 0.01 mg/l
 Target: Freshwater sediments - Value: 13.7 mg/kg Target: Marine
 water sediments - Value: 1.37 mg/kg Target: Soil (agricultural) -
 Value: 2.68 mg/kg

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

Target: Fresh Water - Value: 0.635 mg/l
 Target: Freshwater sediments - Value: 3.29 mg/kg
 Target: Marine water sediments - Value: 0.329 mg/kg
 Target: Microorganisms in sewage treatments - Value: 100 mg/l

reaction mass of ethylbenzene and xylene

Target: Fresh Water - Value: 0.327 mg/l
 Target: Marine water - Value: 0.327 mg/l
 Target: Freshwater sediments - Value: 12.46 mg/kg Target: Marine
 water sediments - Value: 12.46 mg/kg Target: Soil (agricultural) -
 Value: 2.31 mg/kg

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

Target: Fresh Water - Value: 10 mg/l
 Target: Freshwater sediments - Value: 52.3 mg/kg Target:
 Marine water sediments - Value: 5.2 mg/kg Target: Marine water
 - Value: 1 mg/l
 Target: Soil (agricultural) - Value: 4.59 mg/kg

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0

Target: Food chain - Value: 160 mg/kg
 Target: Fresh Water - Value: 140.9 mg/l Target: Marine water
 - Value: 140.9 mg/l Target: Freshwater sediments - Value: 552
 mg/kg Target: Soil (agricultural) - Value: 28 mg/kg

trans-1,3,3,3-Tetrafluoroprop-1-ene - CAS: 1645-83-6

Target: Fresh Water - Value: 0.117 mg/l

methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate - CAS: 80-62-6

Target: Fresh Water - Value: 0.94 mg/l
 Target: Soil (agricultural) - Value: 1.47 mg/kg
 Target: Microorganisms in sewage treatments - Value: 10 mg/l Target:
 Freshwater sediments - Value: 5.74 mg/kg
 Target: Marine water - Value: 0.094 mg/l

2-Pentanone oxime - CAS: 623-40-5

Target: Fresh Water - Value: 0.088 mg/l - Notes: Assessment factor: 1000 Target: Marine
 water - Value: 0.0088 mg/l - Notes: Assessment factor: 1000 Target: Freshwater sediments -
 Value: 05 mg/kg

Target: Marine water sediments - Value: 0.05 mg/kg

Target: Soil (agricultural) - Value: 0.05 mg/kg

methanol - CAS: 67-56-1

Target: Fresh Water - Value: 154 mg/l
 Target: Marine water - Value: 15.4 mg/l
 Target: Freshwater sediments - Value: 570.4 mg/l

Biological Exposure Index

acetone; propan-2-one; propanone - CAS: 67-64-1

Value: 25 mg/L - medium: Urine - Biological Indicator: Acetone in urine - Sampling Period: End of turn

8.2. Exposure controls

Eye protection:

Eye glasses with side protection.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber. Respiratory protection:

Use adequate protective respiratory equipment.

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Physical state:	Liquid	--	--
Colour:	Pigmented	--	--
Odour:	Characteristic	--	--
Melting point/freezing point:	N.A.	--	--
Boiling point or initial boiling point and boiling range:	N.A.	--	--
Flammability:	Flammable	--	--
Lower and upper explosion limit:	1.8 ÷ 9.5 % Vol.	--	--
Flash point:	<0 °C	--	--
Auto-ignition temperature:	>400 °C	--	--
Decomposition temperature:	N.A.	--	--
pH:	Not Relevant	--	--
Kinematic viscosity:	>20,5mm ² /s (40 °C)	--	--
Solubility in water:	NO	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient n-octanol/water (log value):	N.A.	--	--
Vapour pressure:	4.5 bar +/- 0.	--	--

	5 20 °C		
Density and/or relative density:	0.75 +/- 0.05	--	--
Relative vapour density:	>1 (air=1)	--	--
Deformation Pressure:	15 bar	--	--
Explosion Pressure:	16 + 20 bar	--	--
Volatile organic compounds - VOC	590 g/l	--	--
Volatile organic compounds - VOC	78 %	--	--
Particle characteristics:			
Particle size:	N.A.	--	--

9.2. Other information

No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

None

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 Toxicological information of the product:

HEAT RESISTANT PAINT - VARIOUS COLOURS (NO TRANSPARENT, NO WHITE, NO ALUMINIUM)

a) acute toxicity

Not classified

Based on available data, the classification criteria are not met

b) skin corrosion/irritation

Not classified

Based on available data, the classification criteria are not met

c) serious eye damage/irritation

The product is classified: Eye Irrit. 2 H319 d) respiratory or skin sensitisation

The product is classified: Skin Sens. 1A H317 e) germ cell mutagenicity

- Not classified
Based on available data, the classification criteria are not met
- f) carcinogenicity
Not classified
Based on available data, the classification criteria are not met
- g) reproductive toxicity
Not classified
Based on available data, the classification criteria are not met
- h) STOT-single exposure
The product is classified: STOT SE 3 H336 i) STOT-repeated exposure
Not classified
Based on available data, the classification criteria are not met
- j) aspiration hazard
Not classified

Based on available data, the classification criteria are not met Toxicological information of the main substances found in the product:

acetone; propan-2-one; propanone - CAS: 67-64-1 a) acute toxicity:

- Test: LD50 - Route: Oral - Species: Rat = 5800 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit = 7400 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat = 76 mg/l - Duration: 4h

b) skin corrosion/irritation:

Test: Skin Irritant Positive

c) serious eye damage/irritation:

Test: Eye Irritant Positive

propane - CAS: 74-98-6

a) acute toxicity:

- Test: LC50 - Route: Inhalation - Species: Rat = 800000 ppm - Duration: 15MIN Test: LC50 - Route: Inhalation - Species: Rat = 14442738 mg/m³ - Duration: 15MIN Test: LC50 - Route: Inhalation - Species: Rat = 1443 mg/l - Duration: 15MIN Test: LC50 - Route: Inhalation - Species: Mouse = 260000 ppm - Duration: 4h

e) germ cell mutagenicity:

- Test: Mutagenesis Negative - Notes: METHOD: OECD 471 Test: Mutagenesis Negative - Notes: METHOD: OECD 474
Test: NOAEL - Route: Inhalation - Species: Rat = 21641 mg/l - Duration: 24H - Notes: METHOD: OECD TG 422

g) reproductive toxicity:

Test: NOAEL - Route: Inhalation - Species: Rat = 21641 mg/l - Duration: 24H - Notes: METHOD: OECD TG 422

i) STOT-repeated exposure:

Test: NOAEL - Route: Inhalation Gas - Species: Rat = 7.214 mg/l - Duration: 24H n-butyl acetate - CAS:

123-86-4

a) acute toxicity:

- Test: LD50 - Route: Oral - Species: Rat = 10760 mg/kg - Source: (FEMALE)
Test: LD50 - Route: Skin - Species: Rabbit = 14112 mg/kg - Source: OCSE 402 Test: LC50 - Route: Inhalation - Species: Rat > 21 mg/l - Duration: 4h - Source: OCSE 403

butane - CAS: 106-97-8 a)

acute toxicity:

- Test: LC50 - Route: Inhalation - Species: Rat = 658 mg/l - Duration: 4h Test: LC50 - Route: Inhalation - Species: Rat = 274200 ppm - Duration: 4h

e) germ cell mutagenicity:

- Test: Mutagenesis Negative - Notes: METHOD: OECD 473 Test: Mutagenesis Negative - Notes: METHOD: OECD 474
Test: NOAEL - Route: Inhalation - Species: Rat = 21394 mg/l - Duration: 24H - Notes: METHOD: OECD TG 422

g) reproductive toxicity:

Test: NOAEL - Route: Inhalation - Species: Rat = 21394 mg/l - Duration: 24H - Notes: METHOD: OECD TG 422

i) STOT-repeated exposure:

Test: NOAEL - Route: Inhalation Gas - Species: Rat = 21394 mg/l - Duration: 24H - Notes: METHOD: OECD 422

Test: NOAEL - Route: Inhalation Gas - Species: Rat = 4000-16000 mg/l - Duration: 6H

Talc - CAS: 14807-96-6

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg

Manganese ferrite black spinel; Pigment Black 33 (C.I. 77537) - CAS: 68186-94-7 a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 10000 mg/kg

isobutane - CAS: 75-28-5

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat = 658 mg/l - Duration: 4h Test: LC50 - Route:

Inhalation - Species: Mouse = 260000 ppm - Duration: 4h

e) germ cell mutagenicity:

Test: Mutagenesis Negative

Test: Mutagenesis Negative - Notes: METHOD: OECD 474

Test: NOAEL - Route: Inhalation - Species: Rat = 21394 mg/l - Duration: 24H - Notes: METHOD: OECD TG 422

g) reproductive toxicity:

Test: NOAEL - Route: Inhalation - Species: Rat = 7131 mg/l - Duration: 24H - Notes: METHOD: OECD TG 422

i) STOT-repeated exposure:

Test: NOAEL - Route: Inhalation Gas - Species: Rat = 21.394 mg/l - Duration: 24H - Notes: METHOD: OECD 422

2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2 a) acute toxicity

ATE - Oral 1200 mg/kg bw

ATE - Inhalation (Vapours) 3 mg/l

Test: LD50 - Route: Oral - Species: Rat = 1300 ml/kg

Test: LC50 - Route: Inhalation - Species: Rat 450-900 mg/kg - Duration: 4h Test: LD50 - Route:

Skin - Species: Rabbit 435-2000 mg/kg

isobutyl acetate - CAS: 110-19-0 a) acute

toxicity:

Test: LD50 - Route: Oral - Species: Rat = 13413 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat > 23.4 mg/l - Duration: 4h Test: LD50 - Route:

Skin - Species: Rabbit > 17400 mg/kg

xylene (mixture of isomers) - CAS: 1330-20-7 a) acute

toxicity:

Test: LC50 - Route: Inhalation Vapour - Species: Rat = 27124 mg/l - Duration: 4h Test: LD50 - Route:

Oral - Species: Rat = 3523 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 12126 mg/kg

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$] - CAS: 13463-67-7

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat > 6.8 mg/l - Duration: 4h

b) skin corrosion/irritation:

Test: Skin Irritant No

c) serious eye damage/irritation:

Test: Eye Irritant No

e) germ cell mutagenicity:

Test: Mutagenesis No

ethylbenzene - CAS: 100-41-4 a) acute

toxicity:

Test: LD50 - Route: Skin - Species: Rabbit = 17800 mg/kg

Test: LD50 - Route: Oral - Species: Rat = 3500 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat = 4000 mg/l - Duration: 4h

2-methoxy-1-methylethyl acetate - CAS: 108-65-6 a) acute

toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg Test: LD50 -

Route: Skin - Species: Rabbit > 5000 mg/kg Test: LC50 - Route:

Inhalation - Species: Rat > 23.5 mg/l

reaction mass of ethylbenzene and xylene a) acute

toxicity:

Test: LD50 - Route: Oral - Species: Rat = 3523 mg/kg - Notes: (EU Method B.1) Test: LC50 - Route: Inhalation
- Species: Rat = 27571 mg/l - Duration: 4h - Notes: (EU Method B.2)

Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/l

i) STOT-repeated exposure:

Test: NOAEL - Route: Oral - Species: Rat = 250 mg/kg bw

Condensation products of dimerised fatty acids, C18-unsaturated, with

N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine - CAS: 162627-17-0

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 10000 mg/kg

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics - CAS: 64742-48-9 a) acute toxicity:

Test: LC50 - Route: Inhalation Vapour - Species: Rat > 5000 mg/m³ - Duration: 4h Test: LD50 - Route:
Oral - Species: Rat > 5000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg

Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat = 8500 mg/m³ - Duration: 4h

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2 a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 4016 mg/kg

Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg - Duration: 24H

Test: LC50 - Route: Inhalation Vapour - Species: Rat > 6000 ppm - Duration: 6H

Silicon dioxide, chemically prepared [CAS-No. 112945-52-5 resp. 7631-86-9] - CAS: 7631-86-9 a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat > 0.139 mg/l - Duration: 4h

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0 a) acute

toxicity:

Test: LD50 - Route: Oral - Species: Rat = 5840 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit = 13900 ml/kg

Test: LC50 - Route: Inhalation Vapour - Species: Rat > 10000 ppm - Duration: 6H

b) skin corrosion/irritation:

Test: Skin Irritant - Species: Rabbit Negative

c) serious eye damage/irritation:

Test: Eye Irritant - Species: Rabbit Positive

g) reproductive toxicity:

Test: Reproductive Toxicity - Route: Oral - Species: Rabbit = 480 mg/kg trans-1,3,3,3-

Tetrafluoroprop-1-ene - CAS: 1645-83-6

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat > 207000 ppm - Duration: 4h

Test: Skin Irritant - Route: Skin - Species: Rabbit Negative - Notes: METHOD: OECD 404

e) germ cell mutagenicity:

Test: Genotoxicity Negative Test:

Genotoxicity Negative

- Test: Genotoxicity - Route: Inhalation - Species: Mouse Negative
- i) STOT-repeated exposure:
 Test: NOAEL - Route: Inhalation - Species: Rat = 5000 ppm - Notes: 13 weeks
 methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate - CAS: 80-62-6 a) acute toxicity:
- Test: LD50 - Route: Oral - Species: Rat = 8400 mg/kg
 Test: LD50 - Route: Skin - Species: Rabbit > 35000 mg/kg
 Test: LC50 - Route: Inhalation Vapour - Species: Rat = 7093 ppm - Duration: 4h
 2-Pentanone oxime - CAS: 623-40-5 a) acute toxicity:
 Test: LD50 - Route: Oral - Species: Rat = 1133 mg/kg - Source: OECD TG 425
 Test: LC50 - Route: Inhalation - Species: Rat > 295 ppm - Duration: 4h - Source: OECD TG 403
- b) skin corrosion/irritation:
 Test: Skin Irritant - Route: Skin - Species: Rabbit Negative - Source: OCSE Nr.439 c) serious eye damage/irritation:
 Test: Eye Irritant - Species: Rabbit Positive - Source: OECD TG 405
- e) germ cell mutagenicity:
 Negative
 g) reproductive toxicity:
 Test: NOAEL - Route: Oral - Species: Rat = 150 mg/kg bw 11.2. Information

on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration \geq 0.1%

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment. WGK: 1

HEAT RESISTANT PAINT - VARIOUS COLOURS (NO TRANSPARENT, NO WHITE, NO ALUMINIUM)

Not classified for environmental hazards

Based on available data, the classification criteria are not met

acetone; propan-2-one; propanone - CAS: 67-64-1

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae = 530 mg/l - Notes: 8 d Endpoint: LC50 -

Species: Fish = 8120 mg/l - Duration h: 96 Endpoint: EC50 - Species: Daphnia = 8800 mg/l - Duration h: 48

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia = 2212 mg/l - Notes: 28 d propane - CAS:

74-98-6

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 49.47 mg/l Endpoint: EC50 -

Species: Daphnia = 27.14 mg/l Endpoint: EC50 - Species:

Algae = 11.89 mg/l

n-butyl acetate - CAS: 123-86-4

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 44 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 675 mg/l - Duration h: 72

Endpoint: LC50 - Species: Fish = 18 mg/l - Duration h: 96 - Notes: OECD 203

butane - CAS: 106-97-8

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 24.11 mg/l - Duration h: 96 Endpoint: LC50 -

Species: Daphnia = 14.22 mg/l - Duration h: 48

Manganese ferrite black spinel; Pigment Black 33 (C.I. 77537) - CAS: 68186-94-7

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae > 100 mg/l - Duration h: 72 c) Bacteria

toxicity:

Endpoint: EC50 = 10000 mg/l - Duration h: 3 isobutane -

CAS: 75-28-5

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 24.11-147.54 mg/l - Duration h: 96 Endpoint: EC50 -

Species: Daphnia = 14.22-69.43 mg/l - Duration h: 48 Endpoint: EC50 - Species: Algae =

7.71-19.37 mg/l

2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 1550 mg/l - Duration h: 48 Endpoint: EC50 -

Species: Algae = 91840 mg/l - Duration h: 72 Endpoint: LC50 - Species: Fish =

1474 mg/l - Duration h: 96

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish > 100 mg/l - Notes: 21 d

Endpoint: NOEC - Species: Daphnia = 100 mg/l - Notes: 21 d isobutyl acetate -

CAS: 110-19-0

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 17 mg/l - Duration h: 96 Endpoint: EC50 -

Species: Daphnia = 25 mg/l - Duration h: 48 Endpoint: EC50 - Species: Algae

= 370 mg/l - Duration h: 72

xylene (mixture of isomers) - CAS: 1330-20-7

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 2.6 mg/l - Duration h: 96 Endpoint: EC50 -

Species: Daphnia = 1 mg/l - Duration h: 24 Endpoint: EC50 - Species: Algae

= 1.3 mg/l - Duration h: 72

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 μm] - CAS: 13463-67-7

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 1000 mg/l - Duration h: 96 - Notes: EPA-540/9-85-006 FRESHWATER FISH

Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 96 - Notes: OECD 203 FRESHWATER FISH

Endpoint: LC50 - Species: Fish > 10000 mg/l - Duration h: 96 - Notes: OECD 203 SEAWATER FISH

Endpoint: LC50 - Species: Daphnia > 100 mg/l - Duration h: 48 - Notes: OECD 202 FRESHWATER

Endpoint: LC50 - Species: Daphnia > 10000 mg/l - Duration h: 48 - Notes: ISO 14669; ISO 5667-16 SEAWATER

Endpoint: EC50 - Species: Algae = 16 mg/l - Duration h: 72 - Notes: EPA-600-9/78-018 FRESHWATER

Endpoint: EC50 - Species: Algae > 10000 mg/l - Duration h: 72 - Notes: ISO 10253 SEAWATER

ethylbenzene - CAS: 100-41-4

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 75 mg/l - Duration h: 48 - Notes: Daphnia magna Endpoint: LC50 -

Species: Fish = 48.5 mg/l - Duration h: 96 - Notes: Phimephales

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 134 mg/l - Duration h: 96 Endpoint: EC50 -

Species: Algae > 1000 mg/l - Duration h: 72 Endpoint: EC50 - Species: Daphnia

> 500 mg/l - Duration h: 48

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia > 100 mg/l - Notes: 21 d reaction mass of

ethylbenzene and xylene

- a) Aquatic acute toxicity:
 Endpoint: LC50 - Species: Fish = 2.6 mg/l - Duration h: 96
 Endpoint: EC50 - Species: Algae = 2.2 mg/l - Duration h: 72
 Condensation products of dimerised fatty acids, C18-unsaturated, with
 N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine - CAS: 162627-17-0
- a) Aquatic acute toxicity:
 Endpoint: LC50 - Species: Fish > 150 mg/l - Duration h: 48 Endpoint: EC50 -
 Species: Daphnia > 100 mg/l - Duration h: 48 Endpoint: EC50 - Species: Algae >
 100 mg/l - Duration h: 48
- Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics - CAS: 64742-48-9
- a) Aquatic acute toxicity:
 Endpoint: EC50 - Species: Algae > 1000 mg/l - Duration h: 72 Endpoint: EC50 -
 Species: Daphnia > 1000 mg/l - Duration h: 48 Endpoint: LC50 - Species: Fish >
 1000 mg/l - Duration h: 96
- b) Aquatic chronic toxicity:
 Endpoint: NOEC - Species: Daphnia = 100 mg/l - Notes: 21 gg Endpoint: NOEC -
 Species: Fish = 0.131 mg/l - Notes: 28 gg
- 1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2
- a) Aquatic acute toxicity:
 Endpoint: LC50 - Species: Fish = 6812 mg/l - Duration h: 96 Endpoint: EC50 -
 Species: Algae > 1000 mg/l - Duration h: 168 Endpoint: EC50 - Species: Daphnia =
 23300 mg/l - Duration h: 48
- Silicon dioxide, chemically prepared [CAS-No. 112945-52-5 resp. 7631-86-9] - CAS: 7631-86-9
- a) Aquatic acute toxicity:
 Endpoint: EC50 - Species: Daphnia > 1000 mg/l - Duration h: 24 Endpoint: LC50 -
 Species: Fish = 10000 mg/l - Duration h: 96 Endpoint: EC50 - Species: Algae >
 10000 mg/l - Duration h: 72
- propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0
- a) Aquatic acute toxicity:
 Endpoint: LC50 - Species: Fish = 9640 mg/l - Duration h: 96 Endpoint: EC50 -
 Species: Daphnia = 10000 mg/l - Duration h: 24
- c) Bacteria toxicity:
 Endpoint: EC50 = 1050 mg/l e)
- Plant toxicity:
 Endpoint: EC50 - Species: Algae > 1800 mg/l - Duration h: 168 trans-1,3,3,3-
- Tetrafluoroprop-1-ene - CAS: 1645-83-6
- a) Aquatic acute toxicity:
 Endpoint: NOEC - Species: Fish > 117 mg/l - Duration h: 96 Endpoint: EC50 -
 Species: Daphnia > 160 mg/l - Duration h: 48 Endpoint: NOEC - Species: Algae >
 170 mg/l - Duration h: 72
- methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate - CAS: 80-62-6
- a) Aquatic acute toxicity:
 Endpoint: LC50 - Species: Fish > 79 mg/l - Duration h: 96 Endpoint: EC50 -
 Species: Daphnia = 69 mg/l - Duration h: 48 Endpoint: EC50 - Species: Algae
 = 170 mg/l - Duration h: 96
- 2-Pentanone oxime - CAS: 623-40-5
- a) Aquatic acute toxicity:
 Endpoint: NOEC - Species: Fish = 100 mg/l - Duration h: 96 Endpoint: EC50 -
 Species: Algae = 88 mg/l - Duration h: 72 Endpoint: NOEC - Species: Daphnia >
 100 mg/l - Duration h: 48
- methanol - CAS: 67-56-1
- a) Aquatic acute toxicity:
 Endpoint: LC50 - Species: Fish = 29400 mg/l - Duration h: 96 Endpoint: EC50 -
 Species: Daphnia > 10000 mg/l - Duration h: 48 Endpoint: EC50 - Species: Algae =
 22000 mg/l - Duration h: 72
- 12.2. Persistence and degradability
 None

acetone; propan-2-one; propanone - CAS: 67-64-1
 Biodegradability: Readily biodegradable
 propane - CAS: 74-98-6
 Biodegradability: Readily biodegradable
 n-butyl acetate - CAS: 123-86-4
 Biodegradability: Readily biodegradable
 butane - CAS: 106-97-8
 Biodegradability: Readily biodegradable
 isobutane - CAS: 75-28-5
 Biodegradability: Readily biodegradable
 2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2
 Biodegradability: Readily biodegradable
 isobutyl acetate - CAS: 110-19-0
 Biodegradability: Readily biodegradable
 titanium dioxide; [in powder form containing 1% or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$] - CAS: 13463-67-7
 Biodegradability: Not persistent and Biodegradable
 2-methoxy-1-methylethyl acetate - CAS: 108-65-6
 Biodegradability: Readily biodegradable
 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics - CAS: 64742-48-9
 Biodegradability: Readily biodegradable
 1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2
 Biodegradability: Readily biodegradable
 propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0
 Biodegradability: Readily biodegradable
 trans-1,3,3,3-Tetrafluoroprop-1-ene - CAS: 1645-83-6
 Biodegradability: Non-readily biodegradable
 2-Pentanone
 oxime - CAS: 623-40-5
 Biodegradability: Non-readily biodegradable 12.3.

Bioaccumulative potential

acetone; propan-2-one; propanone - CAS: 67-64-1
 Bioaccumulation: Not bioaccumulative - Test: BCF - Bioconcentration factor 3
 Bioaccumulation: Not bioaccumulative - Test: Kow - Partition coefficient 0.24
 propane - CAS: 74-98-6
 Bioaccumulation: Bioaccumulative - Test: Kow - Partition coefficient 2.35
 n-butyl acetate - CAS: 123-86-4
 Test: BCF - Bioconcentration factor 15.3
 Test: Kow - Partition coefficient 2.3 - Notes: n-octanol/water
 butane - CAS: 106-97-8
 Bioaccumulation: Bioaccumulative - Test: Kow - Partition coefficient 2.89
 isobutane - CAS: 75-28-5
 Test: Kow - Partition coefficient 2.88
 2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2
 Test: Kow - Partition coefficient 0.81 - Notes: 1-OCTANOL/WATER
 isobutyl acetate - CAS: 110-19-0
 Test: Kow - Partition coefficient 2.3
 Test: BCF - Bioconcentration factor 15.3
 titanium dioxide; [in powder form containing 1% or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$] - CAS: 13463-67-7
 Bioaccumulation: Not bioaccumulative
 2-methoxy-1-methylethyl acetate - CAS: 108-65-6
 Bioaccumulation: Not bioaccumulative
 1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2
 Bioaccumulation: Not bioaccumulative - Test: Kow - Partition coefficient -0.49
 propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0
 Bioaccumulation: Not bioaccumulative - Test: Kow - Partition coefficient 0.05 - Notes: OECD 107

methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate - CAS: 80-62-6

Test: Kow - Partition coefficient 0.7

methanol - CAS: 67-56-1

Test: Kow - Partition coefficient 0.82

Test: BCF - Bioconcentration factor 10 12.4.

Mobility in soil

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

Mobility in soil: Mobile

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration \geq 0.1% 12.7. Other

adverse effects

None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

Additional disposal information: WASTE

CODE = 160504

SECTION 14: Transport information

14.1. UN number or ID number ADR-UN

number: 1950

IATA-Un number: 1950

IMDG-Un number: 1950

14.2. UN proper shipping name

ADR-Shipping Name: IATA- AEROSOLS AEROSOLS,

Shipping Name: IMDG- flammable AEROSOLS

Shipping Name:

14.3. Transport hazard class(es)

2 - 5F

ADR-Class: 2.1

ADR-Label: 2.1

IATA-Class: 2.1

IATA-Label: IMDG-Class: 2.1

14.4. Packing group

-

ADR-Packing Group: IATA- -

Packing group: IMDG- -

Packing group:

14.5. Environmental hazards

Marine pollutant: No

IMDG-EMS: F-D S-U 14.6.

Special precautions for user

ADR-Transport category (Tunnel restriction code): D

ADR-Limited Quantity (LQ): IATA- 1 L

Passenger Aircraft: IATA-Cargo Forbidden

Aircraft: IMDG-Shipping Name: 203

AEROSOLS

14.7. Maritime transport in bulk according to IMO instruments

N.A.

SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)
 Dir. 2000/39/EC (Occupational exposure limit values) Regulation (EC) n.
 1907/2006 (REACH)
 Regulation (EC) n. 1272/2008 (CLP)
 Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013 Regulation (EU) n.
 2020/878
 Regulation (EU) n. 286/2011 (ATP 2 CLP)
 Regulation (EU) n. 618/2012 (ATP 3 CLP) Regulation
 (EU) n. 487/2013 (ATP 4 CLP) Regulation (EU) n.
 944/2013 (ATP 5 CLP) Regulation (EU) n. 605/2014 (ATP
 6 CLP) Regulation (EU) n. 2015/1221 (ATP 7 CLP)
 Regulation (EU) n. 2016/918 (ATP 8 CLP) Regulation
 (EU) n. 2016/1179 (ATP 9 CLP) Regulation (EU) n.
 2017/776 (ATP 10 CLP) Regulation (EU) n. 2018/669 (ATP
 11 CLP) Regulation (EU) n. 2018/1480 (ATP 13 CLP)
 Regulation (EU) n. 2019/521 (ATP 12 CLP) Regulation
 (EU) n. 2020/217 (ATP 14 CLP) Regulation (EU) n.
 2020/1182 (ATP 15 CLP) Regulation (EU) n. 2021/643
 (ATP 16 CLP) Regulation (EU) n. 2021/849 (ATP 17 CLP)
 Regulation (EU) n. 2022/692 (ATP 18 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

Restriction 3

Restriction 40

Restrictions related to the substances contained:

Restriction 69

Restriction 70

Restriction 75

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

Dir. 2004/42/EC (VOC directive)

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors.

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

Product belongs to category: P3a

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture. Substances for which a Chemical Safety Assessment has been carried out:

n-butyl acetate

2-butoxyethanol; ethylene glycol monobutyl ether

xylene (mixture of isomers)

2-methoxy-1-methylethyl acetate

reaction mass of ethylbenzene and xylene

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics 1-methoxy-2-

propanol; monopropylene glycol methyl ether

propan-2-ol; isopropyl alcohol; isopropanol

15.3. VOC

Volatile organic compounds - VOCs = 590 g/l

Volatile organic compounds - VOCs = 78 %

This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

SECTION 16: Other information

Full text of phrases referred to in Section 3:

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

H220 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.

H226 Flammable liquid and vapour.

H331 Toxic if inhaled.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H304 May be fatal if swallowed and enters airways.

H335 May cause respiratory irritation.

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

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H412 Harmful to aquatic life with long lasting effects.

H351 Suspected of causing cancer if inhaled.

H373 May cause damage to organs (hearing organs) through prolonged or repeated exposure. H317 May cause an allergic skin reaction.

H370 Causes damage to organs.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H371 May cause damage to organs.

Hazard class and hazard category	Code	Description
Flam. Gas 1A	2.2/1A	Flammable gas, Category 1A
Aerosols 1	2.3/1	Aerosol, Category 1
Press. Gas	2.5	Gases under pressure
Press Gas (Comp.)	2.5/C	Gases under pressure (Compressed gas)
Flam. Liq. 2	2.6/2	Flammable liquid, Category 2
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Acute Tox. 3	3.1/3/Dermal	Acute toxicity (dermal), Category 3
Acute Tox. 3	3.1/3/Inhal	Acute toxicity (inhalation), Category 3
Acute Tox. 3	3.1/3/Oral	Acute toxicity (oral), Category 3
Acute Tox. 4	3.1/4/Dermal	Acute toxicity (dermal), Category 4
Acute Tox. 4	3.1/4/Inhal	Acute toxicity (inhalation), Category 4
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4

Asp. Tox. 1	3.10/1	Aspiration hazard, Category 1
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Skin Sens. 1	3.4.2/1	Skin Sensitisation, Category 1
Skin Sens. 1A	3.4.2/1A	Skin Sensitisation, Category 1A
Carc. 2	3.6/2	Carcinogenicity, Category 2
STOT SE 1	3.8/1	Specific target organ toxicity - single exposure, Category 1
STOT SE 2	3.8/2	Specific target organ toxicity - single exposure, Category 2
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
STOT RE 2	3.9/2	Specific target organ toxicity - repeated exposure, Category 2
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

Paragraphs modified from the previous revision:

SECTION 3: Composition/information on ingredients SECTION 8:
 Exposure controls/personal protection SECTION 11: Toxicological
 information
 SECTION 12: Ecological information SECTION
 14: Transport information SECTION 15:
 Regulatory information SECTION 16: Other
 information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Aerosols 1, H222, H229	On basis of test data
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1A, H317	Calculation method
STOT SE 3, H336	Calculation method

This document was prepared by a competent person who has received appropriate training. Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities
 SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.