



## Safety Data Sheet IRON MICA PAINT

Safety Data Sheet dated 17/5/2023, version 4 17/5/2023

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

1.1. Product identifier

Mixture identification:

Trade name: IRON MICA 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

Company:

COLORPACK s.r.l.

Via B.Cellini 26

20020 Solaro

Milano - Italia

Fax +39 029691714 Tel.+39 029690664 (8.30-17.00 from monday to friday)

Web site: [www.colorpack.com](http://www.colorpack.com) E-mail: [info@colorpack.com](mailto:info@colorpack.com)

Competent person responsible for the safety data sheet:

[sharon@colorpack.com](mailto:sharon@colorpack.com) - [m.franzoni@colorpack.com](mailto:m.franzoni@colorpack.com)

1.4. Emergency telephone number

COLORPACK s.r.l. Tel.+39 029690664 (8.30-17.00 from monday to friday)

Centro Antiveleni - Milano - A.O. Ospedale Niguarda Ca' Granda - Piazza Ospedale Maggiore, 3  
- Tel. 02 66101029

Centro Antiveleni - Bergamo - A.O. Papa Giovanni XXIII - Piazza OMS, 1 - Tel. 800.883.300

Centro Antiveleni - Pavia - Centro Nazionale di Informazione Tossicologica - Via Salvatore  
Maugeri, 10 - Tel. 0382 24444

Centro Antiveleni - Roma - Policlinico "A. Gemelli" - Largo A.Gemelli, 8 - Tel. 06 3054343

Centro Antiveleni - Roma - Policlinico "Umberto I" - Viale del Policlinico, 155 - Tel. 06 49978000

Centro Antiveleni pediatrico - Roma - "Ospedale Pediatrico Bambino Gesù" DEA - Piazza  
S.Onofrio, 4 - Tel. 06 68593726

Centro Antiveleni - Napoli - A.O. di Rilievo Nazionale "A.Cardarelli" - Via A.Cardarelli, 9 - Tel.  
081 5453333

Centro Antiveleni - Firenze - A.O. "Careggi" U.O. Tossicologia Medica - Largo Brambilla, 3 - Tel.  
055 7947819

Centro Antiveleni - Foggia - A.O. Universitaria - V.le Luigi Pinto, 1 - Tel. 800.183.459 / 0881  
736003

Centro Antiveleni - Azienda Ospedaliera Universitaria Integrata (AOUI) di Verona - Piazzale  
Aristide Stefani, 1 - Tel. 800.011.858

### 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, 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:



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Danger

Hazard statements:

H222, H229 Extremely flammable aerosol. Pressurized container: may burst if heated.

H319 Causes serious eye irritation.

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.

EUH208 Contains Condensation products of dimerised fatty acids, C18-unsaturated, with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine. May produce an allergic reaction.

Contains

acetone; propan-2-one; propanone

n-butyl acetate

isobutyl acetate

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

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### SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

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

⚠ 2.5 Press. Gas H280

DECLK (CLP)\*

$\geq 5\%$  -  $< 7\%$  n-butyl acetate

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

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⚠ 2.6/3 Flam. Liq. 3 H226  
⚠ 3.8/3 STOT SE 3 H336  
EUH066

>= 5% - < 7% Talc

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

>= 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)\*

>= 5% - < 7% 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

>= 3% - < 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

>= 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  
⚠ 2.5 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% aluminium powder (stabilised)

REACH No.: 01-2119529243-45, Index number: 013-002-00-1, CAS: 7429-90-5, EC: 231-072-3  
⚠ 2.12/2 Water-react. 2 H261  
⚠ 2.7/1 Flam. Sol. 1 H228

>= 1% - < 2.5% reaction mass of ethylbenzene and xylene

REACH No.: 01-2119539452-40, EC: 905-588-0  
⚠ 2.6/3 Flam. Liq. 3 H226

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- ⚠ 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

>= 0.3% - < 0.5% Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics

REACH No.: 01-2119457273-39, EC: 918-481-9

- ⚠ 3.10/1 Asp. Tox. 1 H304

EUH066

>= 0.1% - < 0.25% 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% Hydrocarbons, C9, aromatics

REACH No.: 01-2119455851-35, CAS: 128601-23-0, EC: 918-668-5

- ⚠ 2.6/3 Flam. Liq. 3 H226

- ⚠ 3.8/3 STOT SE 3 H335

- ⚠ 3.10/1 Asp. Tox. 1 H304

- ⚠ 3.8/3 STOT SE 3 H336

- ⚠ 4.1/C2 Aquatic Chronic 2 H411

EUH066

>= 0.1% - < 0.25% 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

>= 0.1% - < 0.25% ethanol; ethyl alcohol

REACH No.: 01-2119457610-43, Index number: 603-002-00-5, CAS: 64-17-5, EC: 200-578-6

- ⚠ 2.6/2 Flam. Liq. 2 H225

- ⚠ 3.3/2 Eye Irrit. 2 H319

Specific Concentration Limits:

C >= 50%: Eye Irrit. 2 H319

968 ppm 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

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

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266 ppm 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

168 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

113 ppm butan-1-ol; n-butanol

REACH No.: 01-2119484630-38, Index number: 603-004-00-6, CAS: 71-36-3, EC: 200-751-6

⚠ 2.6/3 Flam. Liq. 3 H226

⚠ 3.8/3 STOT SE 3 H335

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.3/1 Eye Dam. 1 H318

⚠ 3.8/3 STOT SE 3 H336

⚠ 3.1/4/Oral Acute Tox. 4 H302

105 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.

87 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

35 ppm Neodecanoic acid, cobalt salt

REACH No.: 01-2119970733-31, CAS: 27253-31-2, EC: 248-373-0

⚠ 3.4.2/1 Skin Sens. 1 H317

⚠ 3.1/4/Oral Acute Tox. 4 H302

⚠ 3.9/1 STOT RE 1 H372

4.1/C3 Aquatic Chronic 3 H412

Acute Toxicity Estimate:

ATE - Oral 1098 mg/kg bw

\*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 (EINECS 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.

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#### 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.

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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

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#### 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.

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#### 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

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#### SECTION 7: Handling and storage

7.1. Precautions for safe handling

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

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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

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## SECTION 8: Exposure controls/personal protection

- 8.1. Control parameters  
acetone; propan-2-one; propanone - CAS: 67-64-1  
EU - TWA(8h): 1210 mg/m<sup>3</sup>, 500 ppm  
ACGIH - TWA(8h): 250 ppm - STEL: 500 ppm - Notes: A4, BEI - URT and eye irr, CNS impair  
MAK - TWA(8h): 1200 mg/m<sup>3</sup>, 500 ppm - STEL: 2400 mg/m<sup>3</sup>, 1000 ppm - Notes: SWISS  
National - TWA(8h): 1210 mg/m<sup>3</sup>, 500 ppm - STEL: 3620 mg/m<sup>3</sup>, 1500 ppm - Notes: HR - CROATIA  
propane - CAS: 74-98-6  
EU - TWA(8h): 1800 mg/m<sup>3</sup>, 1000 ppm  
TLV - TWA(8h): 1800 mg/m<sup>3</sup>, 1000 ppm - STEL: 3600 mg/m<sup>3</sup>, 2000 ppm - Notes: AUSTRIA, DENMARK  
TLV - TWA(8h): 1500 mg/m<sup>3</sup>, 800 ppm - STEL: 2000 mg/m<sup>3</sup>, 1100 ppm - Notes: FINLAND  
TLV - TWA(8h): 1400 mg/m<sup>3</sup>, 778 ppm - STEL: 1800 mg/m<sup>3</sup>, 1000 ppm - Notes: ROMANIA  
TLV - TWA(8h): 1800 mg/m<sup>3</sup>, 1000 ppm - STEL: 7200 mg/m<sup>3</sup>, 4000 ppm - Notes: GERMANY  
MAK - TWA(8h): 1800 mg/m<sup>3</sup>, 1000 ppm - STEL: 7200 mg/m<sup>3</sup>, 4000 ppm - Notes: SWISS  
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/m<sup>3</sup>, 100 ppm - STEL: 960 mg/m<sup>3</sup>, 200 ppm - Notes: GERMANY  
GVI - TWA(8h): 724 mg/m<sup>3</sup>, 150 ppm - STEL: 966 mg/m<sup>3</sup>, 200 ppm - Notes: CROATIA  
VLA - TWA(8h): 724 mg/m<sup>3</sup>, 150 ppm - STEL: 965 mg/m<sup>3</sup>, 200 ppm - Notes: SPAIN

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- TLV - TWA(8h): 950 mg/m<sup>3</sup> - STEL: 1200 mg/m<sup>3</sup> - Notes: CZECH REPUBLIC  
VLEP - TWA(8h): 710 mg/m<sup>3</sup>, 150 ppm - STEL: 940 mg/m<sup>3</sup>, 200 ppm - Notes: FRANCE  
National - TWA(8h): 724 mg/m<sup>3</sup>, 150 ppm - STEL: 966 mg/m<sup>3</sup>, 200 ppm - Notes:  
UNITED KINGDOM  
MAK - TWA(8h): 480 mg/m<sup>3</sup>, 100 ppm - STEL: 960 mg/m<sup>3</sup>, 200 ppm - Notes: SWISS  
EU - TWA(8h): 241 mg/m<sup>3</sup>, 50 ppm - STEL: 723 mg/m<sup>3</sup>, 150 ppm
- Talc - CAS: 14807-96-6  
EU - TWA(8h): 2 mg/m<sup>3</sup>  
MAK - TWA(8h): 2 mg/m<sup>3</sup> - Notes: CH - SWISS  
ACGIH - TWA(8h): 2 mg/m<sup>3</sup> - Notes: Containing no asbestos fibers. (E,R), A4 - Pulm  
fibrosis, pulm func
- butane - CAS: 106-97-8  
EU - TWA(8h): 1450 mg/m<sup>3</sup>, 600 ppm - STEL: 1810 mg/m<sup>3</sup>, 750 ppm  
TLV - TWA(8h): 1600 mg/m<sup>3</sup>, 800 ppm - STEL: 3800 mg/m<sup>3</sup>, 1600 ppm - Notes:  
AUSTRIA, DENMARK  
TLV - TWA(8h): 1900 mg/m<sup>3</sup>, 800 ppm - STEL: 2400 mg/m<sup>3</sup>, 1000 ppm - Notes:  
FINLAND  
TLV - TWA(8h): 1900 mg/m<sup>3</sup>, 800 ppm - Notes: FRANCE  
TLV - TWA(8h): 2400 mg/m<sup>3</sup>, 1000 ppm - STEL: 9600 mg/m<sup>3</sup>, 4000 ppm - Notes:  
GERMANY  
MAK - TWA(8h): 1900 mg/m<sup>3</sup>, 800 ppm - STEL: 7600 mg/m<sup>3</sup>, 3200 ppm - Notes:  
SWISS
- isobutyl acetate - CAS: 110-19-0  
ACGIH - TWA(8h): 50 ppm - STEL: 150 ppm - Notes: Eye and URT irr  
MAK - TWA(8h): 480 mg/m<sup>3</sup>, 100 ppm - STEL: 960 mg/m<sup>3</sup>, 200 ppm - Notes: SWISS  
GVI - TWA(8h): 724 mg/m<sup>3</sup>, 150 ppm - STEL: 903 mg/m<sup>3</sup>, 187 ppm - Notes: CROATIA  
VLA - TWA(8h): 724 mg/m<sup>3</sup>, 150 ppm - Notes: SPAIN  
TLV - TWA(8h): 950 mg/m<sup>3</sup> - STEL: 1200 mg/m<sup>3</sup> - Notes: CZECH REPUBLIC  
National - TWA(8h): 300 mg/m<sup>3</sup>, 62 ppm - STEL: 600 mg/m<sup>3</sup>, 124 ppm - Notes:  
GERMANY  
VLEP - TWA(8h): 710 mg/m<sup>3</sup>, 150 ppm - STEL: 940 mg/m<sup>3</sup>, 200 ppm - Notes: FRANCE  
EU - TWA(8h): 241 mg/m<sup>3</sup>, 50 ppm - STEL: 723 mg/m<sup>3</sup>, 150 ppm
- xylene (mixture of isomers) - CAS: 1330-20-7  
EU - TWA(8h): 221 mg/m<sup>3</sup>, 50 ppm - STEL: 442 mg/m<sup>3</sup>, 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/m<sup>3</sup>, 100 ppm - STEL: 870 mg/m<sup>3</sup>, 200 ppm - Notes: CH -  
SWISS
- isobutane - CAS: 75-28-5  
EU - TWA(8h): 2400 mg/m<sup>3</sup>, 1000 ppm - STEL: 9600 mg/m<sup>3</sup>, 4000 ppm  
TLV - TWA(8h): 1900 mg/m<sup>3</sup>, 800 ppm - STEL: 2400 mg/m<sup>3</sup>, 1000 ppm - Notes:  
FINLAND  
MAK - TWA(8h): 1900 mg/m<sup>3</sup>, 800 ppm - STEL: 7600 mg/m<sup>3</sup>, 3200 ppm - Notes:  
SWISS
- 2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2  
EU - TWA(8h): 98 mg/m<sup>3</sup>, 20 ppm - STEL: 246 mg/m<sup>3</sup>, 50 ppm - Notes: Skin  
ACGIH - TWA(8h): 20 ppm - Notes: A3, BEI - Eye and URT irr  
MAK - TWA(8h): 49 mg/m<sup>3</sup>, 10 ppm - STEL: 98 mg/m<sup>3</sup>, 20 ppm - Notes: SWISS  
MAK - TWA(8h): 98 mg/m<sup>3</sup>, 20 ppm - STEL(): 200 mg/m<sup>3</sup>, 40 ppm - Notes: AUSTRIA  
TLV - TWA(8h): 100 mg/m<sup>3</sup> - STEL(): 200 mg/m<sup>3</sup> - Notes: CZECH REPUBLIC  
MAK - TWA(8h): 49 mg/m<sup>3</sup>, 10 ppm - STEL(): 98 mg/m<sup>3</sup>, 20 ppm - Notes: GERMANY  
VLEP - TWA(8h): 49 mg/m<sup>3</sup>, 10 ppm - STEL(): 246 mg/m<sup>3</sup>, 50 ppm - Notes: FRANCE  
National - TWA(8h): 123 mg/m<sup>3</sup>, 25 ppm - STEL(): 246 mg/m<sup>3</sup>, 50 ppm - Notes: UNITED  
KINGDOM: Skin  
National - TWA(8h): 98 mg/m<sup>3</sup>, 20 ppm - STEL(): 245 mg/m<sup>3</sup>, 50 ppm - Notes: SPAIN
- aluminium powder (stabilised) - CAS: 7429-90-5  
ACGIH - TWA(8h): 1 mg/m<sup>3</sup> - Notes: (R), A4 - Pneumoconiosis, LRT irr, neurotoxicity  
MAK - TWA(8h): 3 mg/m<sup>3</sup> - Notes: SWISS

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VLA - TWA(8h): 10 mg/m<sup>3</sup> - Notes: SPAIN  
reaction mass of ethylbenzene and xylene  
EU - TWA(8h): 221 mg/m<sup>3</sup>, 50 ppm - STEL: 442 mg/m<sup>3</sup>, 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, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics  
EU - TWA(8h): 1200 mg/m<sup>3</sup>  
2-methoxy-1-methylethyl acetate - CAS: 108-65-6  
EU - TWA(8h): 275 mg/m<sup>3</sup>, 50 ppm - STEL: 550 mg/m<sup>3</sup>, 100 ppm - Notes: Skin  
MAK - TWA(8h): 275 mg/m<sup>3</sup>, 50 ppm - STEL: 275 mg/m<sup>3</sup>, 50 ppm - Notes: SWISS  
MAK - TWA(8h): 270 mg/m<sup>3</sup>, 50 ppm - STEL: 270 mg/m<sup>3</sup>, 50 ppm - Notes: GERMANY  
National - TWA(8h): 274 mg/m<sup>3</sup>, 50 ppm - STEL: 548 mg/m<sup>3</sup>, 100 ppm - Notes: GREAT  
BRITAIN  
Hydrocarbons, C9, aromatics - CAS: 128601-23-0  
ACGIH - TWA(8h): 100 mg/m<sup>3</sup>, 19 ppm  
ethanol; ethyl alcohol - CAS: 64-17-5  
ACGIH - STEL: 1000 ppm - Notes: A3 - URT irr  
MAK - TWA(8h): 960 mg/m<sup>3</sup>, 500 ppm - STEL: 1920 mg/m<sup>3</sup>, 1000 ppm - Notes: SWISS  
- CH  
MAK - TWA(8h): 960 mg/m<sup>3</sup>, 500 ppm - STEL: 1920 mg/m<sup>3</sup>, 1000 ppm - Notes:  
GERMANY - DE  
GVI - TWA(8h): 1900 mg/m<sup>3</sup>, 100 ppm - Notes: CROATIA - HR  
VLA - STEL: 1910 mg/m<sup>3</sup>, 1000 ppm - Notes: SPAIN - ES  
VLEP - TWA(8h): 1900 mg/m<sup>3</sup>, 1000 ppm - STEL: 9500 mg/m<sup>3</sup>, 5000 ppm - Notes:  
FRANCE - FR  
ethylbenzene - CAS: 100-41-4  
EU - TWA(8h): 442 mg/m<sup>3</sup>, 100 ppm - STEL: 884 mg/m<sup>3</sup>, 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/m<sup>3</sup>, 50 ppm - STEL: 220 mg/m<sup>3</sup>, 50 ppm - Notes: SWISS  
National - TWA(8h): 442 mg/m<sup>3</sup>, 100 ppm - STEL: 884 mg/m<sup>3</sup>, 200 ppm - Notes:  
CROATIA - K (Skin)  
trans-1,3,3,3-Tetrafluoroprop-1-ene - CAS: 1645-83-6  
EU - TWA(8h): 4700 mg/m<sup>3</sup>, 1000 ppm - STEL: 9400 mg/m<sup>3</sup>, 2000 ppm  
MAK - TWA(8h): 4700 mg/m<sup>3</sup>, 1000 ppm - STEL: 9400 mg/m<sup>3</sup>, 2000 ppm - Notes:  
SWISS  
1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2  
EU - TWA(8h): 375 mg/m<sup>3</sup>, 100 ppm - STEL: 563 mg/m<sup>3</sup>, 150 ppm - Notes: Skin  
ACGIH - TWA(8h): 50 ppm - STEL: 100 ppm - Notes: A4 - Eye and URT irr  
MAK - TWA(8h): 360 mg/m<sup>3</sup>, 100 ppm - STEL: 720 mg/m<sup>3</sup>, 200 ppm - Notes: CH -  
SWISS  
MAK - TWA(8h): 187 mg/m<sup>3</sup>, 50 ppm - STEL(): 187 mg/m<sup>3</sup>, 50 ppm - Notes: AT -  
AUSTRIA  
TLV - TWA(8h): 270 mg/m<sup>3</sup> - STEL(): 550 mg/m<sup>3</sup> - Notes: CZ - CZECH REP.  
MAK - TWA(8h): 370 mg/m<sup>3</sup>, 100 ppm - STEL(): 740 mg/m<sup>3</sup>, 200 ppm - Notes: DE -  
GERMANY  
VLEP - TWA(8h): 188 mg/m<sup>3</sup>, 50 ppm - STEL(): 375 mg/m<sup>3</sup>, 10 ppm - Notes: FR -  
FRANCE  
GVI - TWA(8h): 375 mg/m<sup>3</sup>, 100 ppm - STEL: 568 mg/m<sup>3</sup>, 150 ppm - Notes: HR -  
CROATIA: K (Skin)  
butan-1-ol; n-butanol - CAS: 71-36-3  
ACGIH - TWA(8h): 20 ppm - Notes: Eye and URT irr  
MAK - TWA(8h): 150 mg/m<sup>3</sup>, 50 ppm - STEL(): 600 mg/m<sup>3</sup>, 200 ppm - Notes: AUSTRIA  
MAK - TWA(8h): 310 mg/m<sup>3</sup>, 100 ppm - STEL(): 310 mg/m<sup>3</sup>, 100 ppm - Notes:  
GERMANY  
TLV - TWA(8h): 300 mg/m<sup>3</sup> - STEL(): 600 mg/m<sup>3</sup> - Notes: CZECH REPUBLIC

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VLA - TWA(8h): 61 mg/m<sup>3</sup>, 20 ppm - STEL(): 154 mg/m<sup>3</sup>, 50 ppm - Notes: SPAIN  
VLEP - STEL(): 150 mg/m<sup>3</sup>, 50 ppm - Notes: FRANCE  
GVI - STEL: 150 mg/m<sup>3</sup>, 50 ppm - Notes: CROATIA: K  
MAK - TWA(8h): 150 mg/m<sup>3</sup>, 50 ppm - STEL: 150 mg/m<sup>3</sup>, 50 ppm - Notes: SWISS  
Silicon dioxide, chemically prepared [CAS-No. 112945-52-5 resp. 7631-86-9] - CAS: 7631-86-9  
EU - TWA(8h): 3 mg/m<sup>3</sup> - Notes: Type of exposure: Respirable Particles (IT)  
EU - TWA(8h): 10 mg/m<sup>3</sup> - Notes: Type of exposure: Inhalable particles (IT)  
MAK - TWA(8h): 4 mg/m<sup>3</sup> - 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/m<sup>3</sup>, 200 ppm - STEL: 1000 mg/m<sup>3</sup>, 400 ppm - Notes: SWISS  
GVI - TWA(8h): 999 mg/m<sup>3</sup>, 400 ppm - STEL: 1250 mg/m<sup>3</sup>, 500 ppm - Notes: CROATIA  
VLA - TWA(8h): 500 mg/m<sup>3</sup>, 200 ppm - STEL: 1000 mg/m<sup>3</sup>, 440 ppm - Notes: SPAIN - VLB, s  
TLV - TWA(8h): 500 mg/m<sup>3</sup> - STEL: 1000 mg/m<sup>3</sup> - Notes: CZECH REPUBLIC  
MAK - TWA(8h): 500 mg/m<sup>3</sup>, 200 ppm - STEL: 1000 mg/m<sup>3</sup>, 400 ppm - Notes: GERMANY  
VLEP - STEL: 980 mg/m<sup>3</sup>, 400 ppm - Notes: FRANCE  
National - TWA(8h): 999 mg/m<sup>3</sup>, 400 ppm - STEL: 1250 mg/m<sup>3</sup>, 500 ppm - Notes: UNITED KINGDOM  
Neodecanoic acid, cobalt salt - CAS: 27253-31-2  
EU - TWA(8h): 0.1 mg/m<sup>3</sup> - Notes: (as Co)

**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/m<sup>3</sup> - Worker Professional: 2420 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, local effects  
Worker Industry: 1210 mg/m<sup>3</sup> - Worker Professional: 1210 mg/m<sup>3</sup> - 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/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

n-butyl acetate - CAS: 123-86-4  
Worker Industry: 600 mg/m<sup>3</sup> - Worker Professional: 600 mg/m<sup>3</sup> - Consumer: 300 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, local effects  
Worker Industry: 300 mg/m<sup>3</sup> - Worker Professional: 300 mg/m<sup>3</sup> - Consumer: 35.7 mg/m<sup>3</sup> - 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

isobutyl acetate - CAS: 110-19-0  
Worker Industry: 300 mg/m<sup>3</sup> - Worker Professional: 300 mg/m<sup>3</sup> - Consumer: 35.7 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects  
Worker Industry: 600 mg/m<sup>3</sup> - Worker Professional: 600 mg/m<sup>3</sup> - Consumer: 300 mg/m<sup>3</sup> - 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/m<sup>3</sup> - Worker Professional: 442 mg/m<sup>3</sup> - Consumer: 260 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, systemic effects  
Worker Industry: 221 mg/m<sup>3</sup> - Worker Professional: 221 mg/m<sup>3</sup> - Consumer: 65.3 mg/m<sup>3</sup>

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- 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
- 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/m<sup>3</sup> - Consumer: 426 mg/m<sup>3</sup> - Exposure: Human Inhalation -  
Frequency: Short Term, systemic effects  
Worker Industry: 246 mg/m<sup>3</sup> - 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/m<sup>3</sup> - Consumer: 59 mg/m<sup>3</sup> - Exposure: Human Inhalation -  
Frequency: Long Term, systemic effects  
Consumer: 26.7 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
- aluminium powder (stabilised) - CAS: 7429-90-5  
Worker Industry: 3.72 mg/m<sup>3</sup> - Worker Professional: 3.72 mg/m<sup>3</sup> - Exposure: Human  
Inhalation - Frequency: Long Term, local effects  
Worker Industry: 3.72 mg/m<sup>3</sup> - Worker Professional: 3.72 mg/m<sup>3</sup> - Exposure: Human  
Inhalation - Frequency: Long Term, systemic effects  
Consumer: 3.95 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
- reaction mass of ethylbenzene and xylene  
Worker Industry: 289 mg/m<sup>3</sup> - Worker Professional: 289 mg/m<sup>3</sup> - Consumer: 174 mg/m<sup>3</sup>  
- 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/m<sup>3</sup> - Worker Professional: 77 mg/m<sup>3</sup> - Consumer: 14.8 mg/m<sup>3</sup> -  
Exposure: Human Inhalation - Frequency: Long Term, systemic effects  
Consumer: 1.6 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
- Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics  
Worker Industry: 300 mg/kg - Worker Professional: 300 mg/kg - Consumer: 300 mg/kg -  
Exposure: Human Dermal - Frequency: Long Term, systemic effects  
Worker Industry: 1300 mg/m<sup>3</sup> - Worker Professional: 1300 mg/m<sup>3</sup> - Consumer: 900  
mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects  
Consumer: 300 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects  
Worker Industry: 840 mg/m<sup>3</sup> - Worker Professional: 840 mg/m<sup>3</sup> - Exposure: Human  
Inhalation - Frequency: Long Term, local effects  
Worker Industry: 1100 mg/m<sup>3</sup> - Worker Professional: 1100 mg/m<sup>3</sup> - Exposure: Human  
Inhalation - Frequency: Short Term, local 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/m<sup>3</sup> - Worker Professional: 275 mg/m<sup>3</sup> - Consumer: 33 mg/m<sup>3</sup> -  
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/m<sup>3</sup> - Worker Professional: 550 mg/m<sup>3</sup> - Exposure: Human  
Inhalation - Frequency: Short Term, local effects  
Consumer: 500 mg/kg - Exposure: Human Oral - Frequency: Short Term, systemic effects
- Hydrocarbons, C9, aromatics - CAS: 128601-23-0  
Consumer: 11 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects  
Worker Industry: 150 mg/m<sup>3</sup> - Worker Professional: 150 mg/m<sup>3</sup> - Consumer: 32 mg/m<sup>3</sup> -  
Exposure: Human Inhalation - Frequency: Long Term, systemic effects  
Worker Industry: 25 mg/kg - Worker Professional: 25 mg/kg - Consumer: 11 mg/kg -

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- Exposure: Human Dermal - Frequency: Long Term, systemic effects
- 2-Pentanone oxime - CAS: 623-40-5  
Worker Industry: 25 mg/m<sup>3</sup> - Worker Professional: 25 mg/m<sup>3</sup> - Consumer: 6.22 mg/m<sup>3</sup> -  
Exposure: Human Inhalation - Frequency: Long Term, systemic effects  
Worker Industry: 75 mg/m<sup>3</sup> - Worker Professional: 75 mg/m<sup>3</sup> - Consumer: 18.66 mg/m<sup>3</sup> -  
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
- ethanol; ethyl alcohol - CAS: 64-17-5  
Worker Industry: 950 mg/m<sup>3</sup> - Worker Professional: 950 mg/m<sup>3</sup> - Consumer: 114 mg/m<sup>3</sup>  
- Exposure: Human Inhalation - Frequency: Long Term, systemic effects  
Worker Industry: 343 mg/kg - Worker Professional: 343 mg/kg - Consumer: 206 mg/kg -  
Exposure: Human Dermal - Frequency: Long Term, systemic effects  
Consumer: 87 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects  
Worker Industry: 1900 mg/m<sup>3</sup> - Worker Professional: 1900 mg/m<sup>3</sup> - Consumer: 950  
mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, local effects
- ethylbenzene - CAS: 100-41-4  
Worker Industry: 77 mg/m<sup>3</sup> - Worker Professional: 77 mg/m<sup>3</sup> - Consumer: 15 mg/m<sup>3</sup> -  
Exposure: Human Inhalation - Frequency: Long Term, systemic effects  
Worker Industry: 293 mg/m<sup>3</sup> - Worker Professional: 293 mg/m<sup>3</sup> - 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
- trans-1,3,3,3-Tetrafluoroprop-1-ene - CAS: 1645-83-6  
Worker Industry: 3902 mg/m<sup>3</sup> - Worker Professional: 3902 mg/m<sup>3</sup> - Consumer: 830  
mg/m<sup>3</sup> - Exposure: Human Inhalation - 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/m<sup>3</sup> - Worker Professional: 369 mg/m<sup>3</sup> - Consumer: 43.9 mg/m<sup>3</sup>  
- Exposure: Human Inhalation - Frequency: Long Term, systemic effects  
Worker Industry: 183 mg/kg - Worker Professional: 183 mg/m<sup>3</sup> - Consumer: 78 mg/m<sup>3</sup> -  
Exposure: Human Dermal - Frequency: Long Term, systemic effects  
Worker Industry: 553.5 mg/m<sup>3</sup> - Worker Professional: 553.5 mg/m<sup>3</sup> - Exposure: Human  
Inhalation - Frequency: Short Term, systemic effects  
Worker Industry: 553.5 mg/m<sup>3</sup> - Worker Professional: 553.5 mg/m<sup>3</sup> - Exposure: Human  
Inhalation - Frequency: Short Term, local effects
- butan-1-ol; n-butanol - CAS: 71-36-3  
Consumer: 3.1 mg/kg - Exposure: Human Oral - Frequency: Short Term, local effects  
Worker Industry: 310 mg/m<sup>3</sup> - Worker Professional: 310 mg/m<sup>3</sup> - Consumer: 155 mg/m<sup>3</sup>  
- Exposure: Human Inhalation - Frequency: Long Term, local effects  
Consumer: 1562 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic  
effects  
Consumer: 3125 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic  
effects
- Silicon dioxide, chemically prepared [CAS-No. 112945-52-5 resp. 7631-86-9] - CAS: 7631-86-9  
Worker Industry: 4 mg/m<sup>3</sup> - Worker Professional: 4 mg/m<sup>3</sup> - Exposure: Human Inhalation  
- Frequency: Short Term, local effects  
Worker Industry: 4 mg/m<sup>3</sup> - Worker Professional: 4 mg/m<sup>3</sup> - Frequency: Long Term,  
systemic effects
- propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0  
Worker Industry: 500 mg/m<sup>3</sup> - Worker Professional: 500 mg/m<sup>3</sup> - Consumer: 89 mg/m<sup>3</sup> -  
Exposure: Human Inhalation - Frequency: Long Term, systemic effects  
Worker Industry: 888 mg/kg - Worker Professional: 888 mg/kg - Consumer: 319 mg/kg -

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Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 26 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Industry: 1000 mg/m<sup>3</sup> - Worker Professional: 1000 mg/m<sup>3</sup> - Consumer: 178 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Consumer: 51 mg/kg - Exposure: Human Oral - Frequency: Short Term, systemic effects

Neodecanoic acid, cobalt salt - CAS: 27253-31-2

Consumer: 0.0649 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Industry: 0.2732 mg/m<sup>3</sup> - Worker Professional: 0.2732 mg/m<sup>3</sup> - Consumer: 0.043 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, local 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

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

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

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

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

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

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ethanol; ethyl alcohol - CAS: 64-17-5

Target: Fresh Water - Value: 0.96 mg/l

Target: Marine water - Value: 0.79 mg/l

Target: Soil (agricultural) - Value: 0.63 mg/kg

Target: Freshwater sediments - Value: 3.6 mg/kg

Target: Marine water sediments - Value: 2.9 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

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

Target: Fresh Water - Value: 0.117 mg/l

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

butan-1-ol; n-butanol - CAS: 71-36-3

Target: Fresh Water - Value: 0.082 mg/l

Target: Marine water - Value: 0.0082 mg/l

Target: Freshwater sediments - Value: 0.178 mg/l

Target: Soil (agricultural) - Value: 0.017 mg/kg

Target: Microorganisms in sewage treatments - Value: 2476 mg/l

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

Neodecanoic acid, cobalt salt - CAS: 27253-31-2

Target: Fresh Water - Value: 0.0006 mg/l

Target: Marine water - Value: 0.00236 mg/l

Target: Microorganisms in sewage treatments - Value: 0.37 mg/l

Target: Freshwater sediments - Value: 9.5 mg/kg

Target: Soil (agricultural) - Value: 10.9 mg/kg

#### 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

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#### 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 <sup>2</sup> /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	625 g/l	--	--
Volatile organic compounds - VOC	83 %	--	--

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Particle characteristics:

Particle size:	N.A.	--	--
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- 9.2. Other information  
No other relevant information

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#### SECTION 10: Stability and reactivity

- 10.1. Reactivity  
Stable under normal conditions
- 10.2. Chemical stability  
Stable under normal conditions
- 10.3. Possibility of hazardous reactions  
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:

IRON MICA PAINT

- 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  
Not classified  
Based on available data, the classification criteria are not met
- 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:

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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/m<sup>3</sup> - 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

Talc - CAS: 14807-96-6

a) acute toxicity:

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

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

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

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Test: LD50 - Route: Oral - Species: Rat = 3523 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 12126 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

aluminium powder (stabilised) - CAS: 7429-90-5

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 15900 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat > 5 mg/l - Duration: 4h

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

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics

a) acute toxicity:

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

Test: LC50 - Route: Inhalation Vapour - Species: Rat > 5000 mg/kg - Duration: 8h

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

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

Hydrocarbons, C9, aromatics - CAS: 128601-23-0

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat > 6193 mg/m<sup>3</sup> - Duration: 4h

Test: LD50 - Route: Oral - Species: Rat = 3592 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 3160 mg/kg

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

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- 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  
ethanol; ethyl alcohol - CAS: 64-17-5
- a) acute toxicity:  
Test: LD50 - Route: Oral - Species: Rat = 10470 mg/kg - Duration: 24H  
Test: LC50 - Route: Inhalation Vapour - Species: Rat = 124.7 mg/l - Duration: 4h  
Test: LD50 - Route: Skin - Species: Rabbit = 17100 mg/kg
- g) reproductive toxicity:  
Test: NOAEL - Species: Rat = 20700 mg/kg - Duration: 24H  
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  
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  
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  
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  
butan-1-ol; n-butanol - CAS: 71-36-3
- a) acute toxicity:  
Test: LD50 - Route: Oral - Species: Rat = 2290 mg/kg  
Test: LD50 - Route: Skin - Species: Rabbit = 3430 mg/kg  
Test: LC50 - Route: Inhalation - Species: Rat > 17.76 mg/l - Duration: 4h  
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

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Neodecanoic acid, cobalt salt - CAS: 27253-31-2

a) acute toxicity

ATE - Oral 1098 mg/kg bw

Test: LD50 - Route: Oral - Species: Rat = 1098 mg/kg

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Route: Skin - Species: Mouse Positive

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: 2

IRON MICA PAINT

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

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

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

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- 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
- 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
- Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics
- a) Aquatic acute toxicity:  
Endpoint: LL50 - Species: Fish > 1000 mg/l - Duration h: 24  
Endpoint: LL50 - Species: Daphnia > 1000 mg/l - Duration h: 48
- 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
- Hydrocarbons, C9, aromatics - CAS: 128601-23-0
- a) Aquatic acute toxicity:  
Endpoint: LC50 - Species: Fish = 9.2 mg/l - Duration h: 96  
Endpoint: EC50 - Species: Daphnia = 3.2 mg/l - Duration h: 48  
Endpoint: EC50 - Species: Algae = 2.9 mg/l - Duration h: 72
- 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
- ethanol; ethyl alcohol - CAS: 64-17-5
- a) Aquatic acute toxicity:  
Endpoint: LC50 - Species: Fish = 11200 mg/l - Duration h: 96  
Endpoint: EC50 - Species: Daphnia > 5012 mg/l - Duration h: 48  
Endpoint: EC50 - Species: Algae > 4432 mg/l - Notes: 7 d
- b) Aquatic chronic toxicity:  
Endpoint: NOEC - Species: Daphnia = 9.6 mg/l - Notes: 9 d
- 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
- 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
- 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
- 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

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- Endpoint: EC50 - Species: Daphnia = 23300 mg/l - Duration h: 48  
butan-1-ol; n-butanol - CAS: 71-36-3
- a) Aquatic acute toxicity:  
Endpoint: LC50 - Species: Fish = 1376 mg/l - Duration h: 96  
Endpoint: EC50 - Species: Algae = 225 mg/l - Duration h: 96 - Notes: OECD TG 201  
Endpoint: EC50 - Species: Daphnia = 1328 mg/l - Duration h: 48 - Notes: OECDTG 202  
Endpoint: NOEC - Species: Daphnia = 4.1 mg/l - Notes: 21 d OCSE 211
- c) Bacteria toxicity:  
Endpoint: EC50 = 4390 mg/l - Notes: 17 d
- 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
- 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
- isobutyl acetate - CAS: 110-19-0  
Biodegradability: Readily biodegradable
- isobutane - CAS: 75-28-5  
Biodegradability: Readily biodegradable
- 2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2  
Biodegradability: Readily biodegradable
- 2-methoxy-1-methylethyl acetate - CAS: 108-65-6  
Biodegradability: Readily biodegradable
- Hydrocarbons, C9, aromatics - CAS: 128601-23-0  
Biodegradability: Readily biodegradable
- 2-Pentanone oxime - CAS: 623-40-5  
Biodegradability: Non-readily biodegradable
- ethanol; ethyl alcohol - CAS: 64-17-5  
Biodegradability: Readily biodegradable
- trans-1,3,3,3-Tetrafluoroprop-1-ene - CAS: 1645-83-6  
Biodegradability: Non-readily biodegradable
- 1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2  
Biodegradability: Readily biodegradable
- butan-1-ol; n-butanol - CAS: 71-36-3  
Biodegradability: Readily biodegradable - %: 92
- propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0  
Biodegradability: 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

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- 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
- isobutyl acetate - CAS: 110-19-0  
Test: Kow - Partition coefficient 2.3  
Test: BCF - Bioconcentration factor 15.3
- 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
- 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
- Neodecanoic acid, cobalt salt - CAS: 27253-31-2  
Bioaccumulation: Bioaccumulative - Test: BCF - Bioconcentration factor 15600
- 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: AEROSOLS  
IATA-Shipping Name: AEROSOLS, flammable  
IMDG-Shipping Name: AEROSOLS
- 14.3. Transport hazard class(es)  
ADR-Class: 2 - 5F  
ADR-Label: 2.1  
IATA-Class: 2.1  
IATA-Label: 2.1  
IMDG-Class: 2.1
- 14.4. Packing group

1.106.FERROMIC/4

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### IRON MICA PAINT

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):	1 L
IATA-Passenger Aircraft:	Forbidden
IATA-Cargo Aircraft:	203
IMDG-Shipping Name:	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 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

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#### 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  
xylene (mixture of isomers)  
2-butoxyethanol; ethylene glycol monobutyl ether  
reaction mass of ethylbenzene and xylene  
2-methoxy-1-methylethyl acetate  
Hydrocarbons, C9, aromatics  
1-methoxy-2-propanol; monopropylene glycol methyl ether  
butan-1-ol; n-butanol  
propan-2-ol; isopropyl alcohol; isopropanol

#### 15.3. VOC

Volatile organic compounds - VOCs = 625 g/l

Volatile organic compounds - VOCs = 83 %

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.

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## 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.  
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.  
H315 Causes skin irritation.  
H312 Harmful in contact with skin.  
H332 Harmful if inhaled.  
H412 Harmful to aquatic life with long lasting effects.  
H331 Toxic if inhaled.  
H302 Harmful if swallowed.  
H261 In contact with water releases flammable gases.  
H228 Flammable solid.  
H411 Toxic to aquatic life with long lasting effects.  
H373 May cause damage to organs (hearing organs) through prolonged or repeated exposure.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H372 Causes damage to organs through prolonged or repeated exposure.

Hazard class and hazard category	Code	Description
Water-react. 2	2.12/2	Substance or mixture which in contact with water emits flammable gas, Category 2
Flam. Gas 1A	2.2/1A	Flammable gas, Category 1A
Aerosols 1	2.3/1	Aerosol, Category 1

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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
Flam. Sol. 1	2.7/1	Flammable solid, Category 1
Acute Tox. 3	3.1/3/Inhal	Acute toxicity (inhalation), 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 Dam. 1	3.3/1	Serious eye damage, Category 1
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
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
STOT RE 1	3.9/1	Specific target organ toxicity - repeated exposure, Category 1
STOT RE 2	3.9/2	Specific target organ toxicity - repeated exposure, Category 2
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, 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]:

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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
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.