

Page 1 of 49

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 19.01.2021 / 0011

Replacing version dated / version: 23.09.2019 / 0010

Valid from: 19.01.2021

PDF print date: 20.01.2021

Paintspray Case red 400 ml

Art.: 147521

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

1.1 Product identifier

Paintspray Case red 400 ml

Art.: 147521

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

Relevant identified uses of the substance or mixture:

Lacquer spray

Sector of use [SU]:

SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Chemical product category [PC]:

PC 9a - Coatings and paints, thinners, paint removers

Process category [PROC]:

PROC11 - Non industrial spraying

Article Categories [AC]:

AC99 - Not required.

Environmental Release Category [ERC]:

ERC99 - Not required.

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

Albert Berner Deutschland GmbH

Bernerstrasse 4

74653 Künzelsau

Tel.: +49 79 40 12 10

Web: www.berner.de

Details of the supplier of the safety data sheet see section 16 of this safety data sheet.

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone number

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 19.01.2021 / 0011

Replacing version dated / version: 23.09.2019 / 0010

Valid from: 19.01.2021

PDF print date: 20.01.2021

Paintspray Case red 400 ml

Art.: 147521

Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:

+49 (0) 221 80260 889 (9:00h - 17:00h)

+49 (0) 700 / 24 112 112 (BRC)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP)

Hazard class Hazard category Hazard statement

| | | |
|------------|---|--|
| Eye Irrit. | 2 | H319-Causes serious eye irritation. |
| STOT SE | 3 | H336-May cause drowsiness or dizziness. |
| Aerosol | 1 | H222-Extremely flammable aerosol. |
| Aerosol | 1 | H229-Pressurised container: May burst if heated. |

2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP)



Danger

H319-Causes serious eye irritation. H336-May cause drowsiness or dizziness. H222-Extremely flammable aerosol. H229-Pressurised container: May burst if heated.

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 vapours or spray. P280-Wear eye protection.

P312-Call a POISON CENTRE / doctor if you feel unwell.

P410+P412-Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

EUH066-Repeated exposure may cause skin dryness or cracking.

EUH211-Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Without adequate ventilation, formation of explosive mixtures may be possible.

n-butyl acetate

Acetone

Page 3 of 49
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 19.01.2021 / 0011
 Replacing version dated / version: 23.09.2019 / 0010
 Valid from: 19.01.2021
 PDF print date: 20.01.2021
 Paintspray Case red 400 ml
 Art.: 147521

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).
 The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

SECTION 3: Composition/information on ingredients

Aerosol

3.1 Substances

n.a.

3.2 Mixtures

| Acetone | Substance for which an EU exposure limit value applies. |
|--|---|
| Registration number (REACH) | 01-2119471330-49-XXXX |
| Index | 606-001-00-8 |
| EINECS, ELINCS, NLP | 200-662-2 |
| CAS | 67-64-1 |
| content % | 20-40 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 |

| n-butyl acetate | Substance for which an EU exposure limit value applies. |
|--|---|
| Registration number (REACH) | --- |
| Index | 607-025-00-1 |
| EINECS, ELINCS, NLP | 204-658-1 |
| CAS | 123-86-4 |
| content % | 1-10 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Flam. Liq. 3, H226 STOT SE 3, H336 |

| Xylene | Substance for which an EU exposure limit value applies. |
|--|--|
| Registration number (REACH) | 01-2119488216-32-XXXX |
| Index | 601-022-00-9 |
| EINECS, ELINCS, NLP | 215-535-7 |
| CAS | 1330-20-7 |
| content % | 1-<10 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Flam. Liq. 3, H226 Asp. Tox. 1, H304 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Acute Tox. 4, H332 STOT SE 3, H335 STOT RE 2, H373 |

GB

Page 4 of 49
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 19.01.2021 / 0011
 Replacing version dated / version: 23.09.2019 / 0010
 Valid from: 19.01.2021
 PDF print date: 20.01.2021
 Paintspray Case red 400 ml
 Art.: 147521

| 2-methoxy-1-methylethyl acetate | Substance for which an EU exposure limit value applies. |
|---|---|
| Registration number (REACH) | 01-2119475791-29-XXXX |
| Index | 607-195-00-7 |
| EINECS, ELINCS, NLP | 203-603-9 |
| CAS | 108-65-6 |
| content % | 1-5 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Flam. Liq. 3, H226 |

| Ethanol | Substance with specific conc. limit(s) acc. to REACH-registration |
|---|---|
| Registration number (REACH) | 01-2119457610-43-XXXX |
| Index | 603-002-00-5 |
| EINECS, ELINCS, NLP | 200-578-6 |
| CAS | 64-17-5 |
| content % | 1-5 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Flam. Liq. 2, H225 Eye Irrit. 2, H319 |

| Isobutyl methyl ketone | Substance for which an EU exposure limit value applies. |
|---|---|
| Registration number (REACH) | --- |
| Index | 606-004-00-4 |
| EINECS, ELINCS, NLP | 203-550-1 |
| CAS | 108-10-1 |
| content % | 1-5 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Flam. Liq. 2, H225 Acute Tox. 4, H332 Eye Irrit. 2, H319 STOT SE 3, H335 |

| Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 µm) | |
|--|-------------------------------|
| Registration number (REACH) | 01-2119489379-17-XXXX |
| Index | 022-006-002 |
| EINECS, ELINCS, NLP | 236-675-5 |
| CAS | 13463-67-7 |
| content % | <5 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Carc. 2, H351 (as inhalation) |

| Glycolic acid n-butyl ester | |
|---|-----------------------------------|
| Registration number (REACH) | 01-2119514685-36-XXXX |
| Index | --- |
| EINECS, ELINCS, NLP | 230-991-7 |
| CAS | 7397-62-8 |
| content % | 0,1-<1 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Eye Dam. 1, H318 Repr. 2, H361 |

GB

Page 5 of 49
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 19.01.2021 / 0011
 Replacing version dated / version: 23.09.2019 / 0010
 Valid from: 19.01.2021
 PDF print date: 20.01.2021
 Paintspray Case red 400 ml
 Art.: 147521

| | |
|--|---|
| Oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1) | |
| Registration number (REACH) | 01-2119974119-29-XXXX |
| Index | --- |
| EINECS, ELINCS, NLP | 251-846-4 |
| CAS | 34140-91-5 |
| content % | <0,05 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT RE 2, H373 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 2, H411 |

| | |
|--|---|
| Amines, C12-18-alkyldimethyl | |
| Registration number (REACH) | --- |
| Index | --- |
| EINECS, ELINCS, NLP | 269-923-6 |
| CAS | 68391-04-8 |
| content % | <0,025 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Acute Tox. 4, H302 Skin Corr. 1B, H314 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=1) Eye Dam. 1, H318 |

Impurities, test data and additional information may have been taken into account in classifying and labelling the product.

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

If the person is unconscious, place in a stable side position and consult a doctor.

Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting. Consult doctor immediately.

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 19.01.2021 / 0011

Replacing version dated / version: 23.09.2019 / 0010

Valid from: 19.01.2021

PDF print date: 20.01.2021

Paintspray Case red 400 ml

Art.: 147521

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

The following may occur:

Product removes fat.

Headaches

Dizziness

Inhalation of fumes may have narcotic effect.

4.3 Indication of any immediate medical attention and special treatment needed

n.c.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

CO₂

Dry extinguisher

Foam

Water jet spray

Unsuitable extinguishing media

High volume water jet

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Toxic gases

Danger of bursting (explosion) when heated

Explosive vapour/air or gas/air mixtures.

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary.

Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove possible causes of ignition - do not smoke.

Ensure sufficient supply of air.

Avoid inhalation, and contact with eyes or skin.

6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent from entering drainage system.

Prevent surface and ground-water infiltration, as well as ground penetration.

GB

Page 7 of 49

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 19.01.2021 / 0011

Replacing version dated / version: 23.09.2019 / 0010

Valid from: 19.01.2021

PDF print date: 20.01.2021

Paintspray Case red 400 ml

Art.: 147521

6.3 Methods and material for containment and cleaning up

If spray or gas escapes, ensure ample fresh air is available.

Active substance:

Soak up with absorbent material (e.g. universal binding agent) and dispose of according to Section 13.

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation.

Keep away from sources of ignition - Do not smoke.

Do not use on hot surfaces.

Take precautions against electrostatic charges.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

Solvent resistant floor

Observe special regulations for aerosols!

Protect from direct sunlight.

Store in a dry place.

Only store at temperatures from 5°C to 35°C.

Observe special storage conditions.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

| Chemical Name | Acetone | Content %: 20-40 |
|---|---|------------------|
| WEL-TWA: 500 ppm (1210 mg/m ³) (WEL, EU) | WEL-STEL: 1500 ppm (3620 mg/m ³) (WEL) | --- |
| Monitoring procedures: | <ul style="list-style-type: none"> - Draeger - Acetone 100/b (CH 22 901) - Draeger - Acetone 40/a (5) (81 03 381) - Compur - KITA-102 SA (548 534) - Compur - KITA-102 SC (548 550) | |

GB

Page 8 of 49

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 19.01.2021 / 0011

Replacing version dated / version: 23.09.2019 / 0010

Valid from: 19.01.2021

PDF print date: 20.01.2021

Paintspray Case red 400 ml

Art.: 147521

- Compur - KITA-102 SD (551 109)
INSHT MTA/MA-031/A96 (Determination of ketones (acetone, methyl ethyl ketone, methyl isobutyl ketone) in air - Charcoal tube method / Gas chromatography) - 1996 - EU project
- BC/CEN/ENTR/000/2002-16 card 67-1 (2004)
MDHS 72 (Volatile organic compounds in air – Laboratory method using pumped solid sorbent tubes, thermal desorption and gas chromatography) - 1993
- NIOSH 1300 (KETONES I) - 1994
NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996
- NIOSH 2555 (KETONES I) - 2003
NIOSH 3800 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTIR SPECTROMETRY) - 2016
- OSHA 69 (Acetone) - 1988

BMGV: ---

Other information: ---

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Chemical Name

n-butyl acetate

Content %: 1-10

WEL-TWA: 150 ppm (724 mg/m³)
(WEL), 50 ppm (241 mg/m³) (EU)

WEL-STEL: 200 ppm (966 mg/m³)
(WEL), 150 ppm (723 mg/m³) (EU)

Monitoring procedures:

- Compur - KITA-138 U (548 857)
- Compur - KITA-139 SB(C) (549 731)
- NIOSH 1450 (ESTERS 1) - 2003
NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996
- OSHA 1009 (n-Butyl Acetate Isobutyl Acetate sec-Butyl Acetate tert-Butyl Acetate) - 2007

BMGV: ---

Other information: ---

GB

Chemical Name

Xylene

Content %: 1-<10

WEL-TWA: 220 mg/m³ (50 ppm)
(WEL), 50 ppm (221 mg/m³) (EU)

WEL-STEL: 100 ppm (441 mg/m³)
(WEL), 100 ppm (442 mg/m³) (EU)

Monitoring procedures:

- Draeger - Xylene 10/a (67 33 161)
- Compur - KITA-143 SA (550 325)
- Compur - KITA-143 SB (505 998)
INSHT MTA/MA-030/A92 (Determination of aromatic hydrocarbons (benzene, toluene, ethylbenzene, p-xylene, 1,2,4-trimethylbenzene) in air - Charcoal tube method / Gas chromatography) - 1992 - EU project BC/CEN/ENTR/000/2002-16 card 47-1 (2004)
- NIOSH 1501 (HYDROCARBONS, AROMATIC) - 2003
NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996
- OSHA 1002 (Xylenes (o-, m-, p-isomers) Ethylbenzene) - 1999

BMGV: 650 mmol methyl hippuric acid/mol creatinine in urine, post shift (Xylene, o-, m-, p- or mixed isomers) (BMGV)

Other information: Sk (WEL)

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Chemical Name

2-methoxy-1-methylethyl acetate

Content %: 1-5

WEL-TWA: 50 ppm (274 mg/m³)
(WEL), 50 ppm (275 mg/m³) (EU)

WEL-STEL: 100 ppm (548 mg/m³)
(WEL), 100 ppm (550 mg/m³) (EU)

Page 9 of 49
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 19.01.2021 / 0011
 Replacing version dated / version: 23.09.2019 / 0010
 Valid from: 19.01.2021
 PDF print date: 20.01.2021
 Paintspray Case red 400 ml
 Art.: 147521

| | |
|------------------------|---|
| Monitoring procedures: | INSHT MTA/MA-024/A92 (Determination of esters II (1-methoxy-2-propyl acetate, 2-ethoxyethyl acetate) in air - Charcoal tube method / Gas chromatography) - 1992 - EU project - BC/CEN/ENTR/000/2002-16 card 15-1 (2004) - NIOSH 2554 (GLYCOL ETHERS) - 2003 - OSHA 99 (Propylene Glycol Monomethyl Ethers/Acetates) - 1993 |
| BMGV: --- | Other information: Sk (WEL) |

| Chemical Name | Ethanol | Content %:1-5 |
|--------------------------------|---|---------------|
| WEL-TWA: 1000 ppm (1920 mg/m3) | WEL-STEL: --- | --- |
| Monitoring procedures: | - Draeger - Alcohol 25/a Ethanol (81 01 631) - Compur - KITA-104 SA (549 210) DFG (D) (Lösungsmittelgemische), Methode Nr. 6 DFG (E) (Solvent mixtures) - 2013, 2002 - EU project - BC/CEN/ENTR/000/2002-16 card 63-2 (2004) DFG Meth. Nr. 2 (D) (Lösungsmittelgemische) - 2013 - EU project - project BC/CEN/ENTR/000/2002-16 card 63-2 (2004) DFG Meth. Nr. 3 (D) (Lösungsmittelgemische) - 2013 - EU project - project BC/CEN/ENTR/000/2002-16 card 63-2 (2004) | |
| BMGV: --- | Other information: --- | |

| Chemical Name | Isobutyl methyl ketone | Content %:1-5 |
|---|--|---------------|
| WEL-TWA: 50 ppm (208 mg/m3) (WEL), 20 ppm (83 mg/m3) (EU) | WEL-STEL: 100 ppm (416 mg/m3) (WEL), 50 ppm (208 mg/m3) (EU) | --- |
| Monitoring procedures: | - Compur - KITA-122 SA(C) (549 277) - Compur - KITA-155 U (554 640) INSHT MTA/MA-031/A96 (Determination of ketones (acetone, methyl ethyl ketone, methyl isobutyl ketone) in air - Charcoal tube method / Gas chromatography) - 1996 - EU project - BC/CEN/ENTR/000/2002-16 card 13-1 (2004) MDHS 72 (Volatile organic compounds in air – Laboratory method using pumped solid sorbent tubes, thermal desorption and gas chromatography) - 1993 MDHS 80 (Volatile organic compounds in air – Laboratory method using diffusive solid sorbent tubes, thermal desorption and gas chromatography) - 1995 - NIOSH 1300 (KETONES I) - 1994 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996 - NIOSH 2555 (KETONES I) - 2003 | |
| BMGV: 20 µmol 4-methylpentan-2one/l in Urine, post shift (BMGV) | Other information: Sk (WEL) | |

| Chemical Name | Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 µm) | Content %:<5 |
|---|--|--------------|
| WEL-TWA: 10 mg/m3 (total inhalable dust), 4 mg/m3 (respirable dust) | WEL-STEL: --- | --- |
| Monitoring procedures: | --- | |
| BMGV: --- | Other information: --- | |

| Chemical Name | Butane | Content %: |
|-------------------------------|----------------------------------|------------|
| WEL-TWA: 600 ppm (1450 mg/m3) | WEL-STEL: 750 ppm (1810 mg/m3) | --- |
| Monitoring procedures: | - Compur - KITA-221 SA (549 459) | |

Page 10 of 49
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 19.01.2021 / 0011
 Replacing version dated / version: 23.09.2019 / 0010
 Valid from: 19.01.2021
 PDF print date: 20.01.2021
 Paintspray Case red 400 ml
 Art.: 147521

- OSHA PV2010 (n-Butane) - 1993
 BMGV: --- Other information: ---

| Chemical Name | Quartz | Content %: |
|--|--|------------|
| WEL-TWA: 0,1 mg/m ³ (silica, respirable, crystalline) | WEL-STEL: --- | --- |
| Monitoring procedures: | INSHT MTA/MA-036/A00 (Determination of Quartz in Air – Membrane Filter Method/ Xray Diffraction) - 2000, 2004 MDHS 101/2 (Crystalline silica in respirable airborne dust – Direct on-filter analysis by infrared spectroscopy and X-ray diffraction) - 2015 - EU project BC/CEN/ENTR/000/2002-16 card 52-1 (2004) NIOSH 7500 (Crystalline Silica, by XRD (filter redeposition)) - 2003 - EU project BC/CEN/ENTR/000/2002-16 card 52-6 (2004) NIOSH 7601 (SILICA, CRYSTALLINE, by VIS) - 2003 NIOSH 7602 (Crystalline Silica, by IR (KBr pellet)) - 2003 NIOSH 7603 (QUARTZ in coal mine dust, by IR (redeposition)) - 2017 OSHA ID-142 (Quartz and Cristobalite in Workplace Atmospheres) - 2016 | |
| BMGV: --- | Other information: --- | |

| Chemical Name | Propane | Content %: |
|---------------------------|--|------------|
| WEL-TWA: 1000 ppm (ACGIH) | WEL-STEL: --- | --- |
| Monitoring procedures: | - Compur - KITA-125 SA (549 954) - OSHA PV2077 (Propane) - 1990 | |
| BMGV: --- | Other information: --- | |

| Chemical Name | Aluminium powder (stabilised) | Content %: |
|---|-------------------------------|------------|
| WEL-TWA: 10 mg/m ³ (total inh. dust), 4 mg/m ³ (resp. dust) | WEL-STEL: --- | --- |
| Monitoring procedures: | --- | |
| BMGV: --- | Other information: --- | |

| Chemical Name | Carbon black | Content %: |
|--------------------------------|-------------------------------|------------|
| WEL-TWA: 3,5 mg/m ³ | WEL-STEL: 7 mg/m ³ | --- |
| Monitoring procedures: | --- | |
| BMGV: --- | Other information: --- | |

| Chemical Name | Iron(III)oxide | Content %: |
|--|--|------------|
| WEL-TWA: 5 mg/m ³ (fume, as Fe) / Rouge: 4 mg/m ³ (resp. dust), 10 mg/m ³ (total inh. dust) | WEL-STEL: 10 mg/m ³ (fume, as Fe) | --- |
| Monitoring procedures: | --- | |
| BMGV: --- | Other information: --- | |

| Chemical Name | Copper compounds | Content %: |
|--|---|------------|
| WEL-TWA: 1 mg/m ³ (Copper and compounds - dust and mists (as Cu)) | WEL-STEL: 2 mg/m ³ (Copper and compounds - dust and mists (as Cu)) | --- |
| Monitoring procedures: | --- | |
| BMGV: --- | Other information: --- | |

Acetone

GB

Page 11 of 49
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 19.01.2021 / 0011
 Replacing version dated / version: 23.09.2019 / 0010
 Valid from: 19.01.2021
 PDF print date: 20.01.2021
 Paintspray Case red 400 ml
 Art.: 147521

| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
|---------------------|---|-----------------------------|------------|-------|-------------------|------------------------------|
| | Environment - marine | | PNEC | 1,06 | mg/l | Assessment factor 500 |
| | Environment - freshwater | | PNEC | 10,6 | mg/l | Assessment factor 50 |
| | Environment - sediment, freshwater | | PNEC | 30,4 | mg/l | |
| | Environment - sediment, marine | | PNEC | 3,04 | mg/l | |
| | Environment - soil | | PNEC | 29,5 | mg/kg dw | |
| | Environment - sewage treatment plant | | PNEC | 19,5 | mg/l | |
| | Environment - sporadic (intermittent) release | | PNEC | 21 | mg/l | Assessment factor 100 |
| | Environment - sewage treatment plant | | PNEC | 100 | mg/l | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 62 | mg/kg bw/day | Overall assessment factor 2 |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 62 | mg/kg bw/day | Overall assessment factor 20 |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 200 | mg/m ³ | Overall assessment factor 5 |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 186 | mg/kg bw/day | |
| Workers / employees | Human - inhalation | Short term, local effects | DNEL | 2420 | mg/m ³ | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 1210 | mg/m ³ | |

n-butyl acetate

| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
|---------------------|--|------------------|------------|-------|------|------|
|---------------------|--|------------------|------------|-------|------|------|

GB

Page 12 of 49
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 19.01.2021 / 0011
 Replacing version dated / version: 23.09.2019 / 0010
 Valid from: 19.01.2021
 PDF print date: 20.01.2021
 Paintspray Case red 400 ml
 Art.: 147521

| | | | | | | |
|---------------------|--------------------------------------|------------------------------|------|--------|--------------|--|
| | Environment - freshwater | | PNEC | 0,18 | mg/l | |
| | Environment - marine | | PNEC | 0,018 | mg/l | |
| | Environment - periodic release | | PNEC | 0,36 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 0,981 | mg/kg | |
| | Environment - sediment, marine | | PNEC | 0,0981 | mg/kg | |
| | Environment - soil | | PNEC | 0,0903 | mg/kg | |
| | Environment - sewage treatment plant | | PNEC | 35,6 | mg/l | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 6 | mg/kg bw/d | |
| Consumer | Human - inhalation | Short term, systemic effects | DNEL | 300 | mg/m3 | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 35,7 | mg/m3 | |
| Consumer | Human - inhalation | Short term, local effects | DNEL | 300 | mg/m3 | |
| Consumer | Human - inhalation | Long term, local effects | DNEL | 35,7 | mg/m3 | |
| Consumer | Human - dermal | Short term, systemic effects | DNEL | 6 | mg/kg bw/day | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 2 | mg/kg bw/day | |
| Consumer | Human - oral | Short term, systemic effects | DNEL | 2 | mg/kg bw/day | |
| Workers / employees | Human - inhalation | Short term, systemic effects | DNEL | 600 | mg/m3 | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 300 | mg/m3 | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 11 | mg/kg bw/d | |
| Workers / employees | Human - dermal | Short term, systemic effects | DNEL | 11 | mg/kg bw/day | |
| Workers / employees | Human - inhalation | Short term, local effects | DNEL | 600 | mg/m3 | |
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 300 | mg/m3 | |

Xylene

| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
|---------------------|--|------------------|------------|-------|------|------|
| | Environment - periodic release | | PNEC | 0,327 | mg/l | |
| | Environment - sewage treatment plant | | PNEC | 6,58 | mg/l | |

GB

Page 13 of 49
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 19.01.2021 / 0011
 Replacing version dated / version: 23.09.2019 / 0010
 Valid from: 19.01.2021
 PDF print date: 20.01.2021
 Paintspray Case red 400 ml
 Art.: 147521

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|---------------------|--|------------------------------|------|-------|--------------|--|
| | Environment - freshwater | | PNEC | 0,327 | mg/l | |
| | Environment - marine | | PNEC | 0,327 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 12,46 | mg/kg dw | |
| | Environment - sediment, marine | | PNEC | 12,46 | mg/kg dw | |
| | Environment - soil | | PNEC | 2,31 | mg/kg dw | |
| | Environment - water, sporadic (intermittent) release | | PNEC | 0,327 | mg/l | |
| Consumer | Human - inhalation | Short term, local effects | DNEL | 174 | mg/m3 | |
| Consumer | Human - inhalation | Short term, systemic effects | DNEL | 174 | mg/m3 | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 14,8 | mg/m3 | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 108 | mg/kg bw/day | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 1,6 | mg/kg bw/day | |
| Workers / employees | Human - inhalation | Short term, local effects | DNEL | 289 | mg/m3 | |
| Workers / employees | Human - inhalation | Short term, systemic effects | DNEL | 289 | mg/m3 | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 77 | mg/m3 | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 180 | mg/kg bw/day | |

2-methoxy-1-methylethyl acetate

| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
|---------------------|--|-----------------------------|------------|--------|-------|------|
| | Environment - freshwater | | PNEC | 0,635 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 3,29 | mg/kg | |
| | Environment - sediment, marine | | PNEC | 0,329 | mg/kg | |
| | Environment - soil | | PNEC | 0,29 | mg/kg | |
| | Environment - sewage treatment plant | | PNEC | 100 | mg/l | |
| | Environment - marine | | PNEC | 0,0635 | mg/l | |
| | Environment - water, sporadic (intermittent) release | | PNEC | 6,35 | mg/l | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 33 | mg/m3 | |

GB

Page 14 of 49
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 19.01.2021 / 0011
 Replacing version dated / version: 23.09.2019 / 0010
 Valid from: 19.01.2021
 PDF print date: 20.01.2021
 Paintspray Case red 400 ml
 Art.: 147521

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|---------------------|--------------------|-----------------------------|------|-------|-------|--|
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 54,8 | mg/kg | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 1,67 | mg/kg | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 153,5 | mg/kg | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 275 | mg/m3 | |

Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$)

| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
|---------------------|--|-----------------------------|------------|--------|------------|------|
| | Environment - freshwater | | PNEC | 0,184 | mg/l | |
| | Environment - marine | | PNEC | 0,0184 | mg/l | |
| | Environment - water, sporadic (intermittent) release | | PNEC | 0,193 | mg/l | |
| | Environment - sewage treatment plant | | PNEC | 100 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 1000 | mg/kg dw | |
| | Environment - sediment, marine | | PNEC | 100 | mg/kg dw | |
| | Environment - soil | | PNEC | 100 | mg/kg dw | |
| | Environment - oral (animal feed) | | PNEC | 1667 | mg/kg feed | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 700 | mg/kg bw/d | |
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 10 | mg/m3 | |

Ethanol

| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
|---------------------|--|------------------|------------|-------|------|------|
| | Environment - freshwater | | PNEC | 0,96 | mg/l | |
| | Environment - marine | | PNEC | 0,79 | mg/l | |
| | Environment - water, sporadic (intermittent) release | | PNEC | 2,75 | mg/l | |
| | Environment - sewage treatment plant | | PNEC | 580 | mg/l | |

GB

Page 15 of 49
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 19.01.2021 / 0011
 Replacing version dated / version: 23.09.2019 / 0010
 Valid from: 19.01.2021
 PDF print date: 20.01.2021
 Paintspray Case red 400 ml
 Art.: 147521

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|---------------------|------------------------------------|-----------------------------|------|------|------------------|--|
| | Environment - sediment, freshwater | | PNEC | 3,6 | mg/kg | |
| | Environment - soil | | PNEC | 0,63 | mg/kg dry weight | |
| | Environment - oral (animal feed) | | PNEC | 0,38 | g/kg feed | |
| | Environment - sediment, marine | | PNEC | 2,9 | mg/kg dry weight | |
| Consumer | Human - dermal | Short term, local effects | DNEL | 950 | mg/m3 | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 114 | mg/m3 | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 87 | mg/kg | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 206 | mg/kg bw/d | |
| Consumer | Human - inhalation | Short term, local effects | DNEL | 950 | mg/m3 | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 343 | mg/kg bw/d | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 950 | mg/m3 | |
| Workers / employees | Human - inhalation | Short term, local effects | DNEL | 1900 | mg/m3 | |

Isobutyl methyl ketone

| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
|---------------------|--|------------------------------|------------|-------|-------|------|
| | Environment - water, sporadic (intermittent) release | | PNEC | 1,5 | mg/l | |
| | Environment - freshwater | | PNEC | 0,6 | mg/l | |
| | Environment - marine | | PNEC | 0,06 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 8,27 | mg/kg | |
| | Environment - sediment, marine | | PNEC | 0,83 | mg/kg | |
| | Environment - soil | | PNEC | 1,3 | mg/kg | |
| | Environment - sewage treatment plant | | PNEC | 27,5 | mg/l | |
| Consumer | Human - inhalation | Long term, local effects | DNEL | 14,7 | mg/m3 | |
| Consumer | Human - inhalation | Short term, systemic effects | DNEL | 155,2 | mg/m3 | |
| Consumer | Human - inhalation | Short term, local effects | DNEL | 155,2 | mg/m3 | |

GB

Page 16 of 49
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 19.01.2021 / 0011
 Replacing version dated / version: 23.09.2019 / 0010
 Valid from: 19.01.2021
 PDF print date: 20.01.2021
 Paintspray Case red 400 ml
 Art.: 147521

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|---------------------|--------------------|------------------------------|------|------|--------------|--|
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 4,2 | mg/kg bw/day | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 4,2 | mg/kg bw/day | |
| Workers / employees | Human - inhalation | Short term, systemic effects | DNEL | 208 | mg/m3 | |
| Workers / employees | Human - inhalation | Short term, local effects | DNEL | 208 | mg/m3 | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 11,8 | mg/kg bw/day | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 83 | mg/m3 | |
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 83 | mg/m3 | |

Glycolic acid n-butyl ester

| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
|---------------------|--|-----------------------------|------------|--------|------------|------|
| | Environment - water | | PNEC | 0,05 | mg/l | |
| | Environment - soil | | PNEC | 0,0112 | mg/kg dw | |
| | Environment - sediment | | PNEC | 0,203 | mg/kg dw | |
| | Environment - sewage treatment plant | | PNEC | 232 | mg/l | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 2 | mg/kg bw/d | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 20,8 | mg/kg bw/d | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 43,5 | mg/m3 | |
| Consumer | Human - dermal | Long term, local effects | DNEL | 0,28 | mg/cm2 | |
| Consumer | Human - inhalation | Long term, local effects | DNEL | 43,5 | mg/m3 | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 34 | mg/kg bw/d | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 21,2 | mg/m3 | |

Aluminium powder (stabilised)

| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
|---------------------|--|------------------|------------|--------|------|------|
| | Environment - freshwater | | PNEC | 0,0749 | mg/l | |
| | Environment - sewage treatment plant | | PNEC | 20 | mg/l | |

GB

Page 17 of 49
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 19.01.2021 / 0011
 Replacing version dated / version: 23.09.2019 / 0010
 Valid from: 19.01.2021
 PDF print date: 20.01.2021
 Paintspray Case red 400 ml
 Art.: 147521

| | | | | | | |
|---------------------|--------------------|-----------------------------|------|------|-------------------|--|
| Consumer | Human - oral | Long term, systemic effects | DNEL | 3,95 | mg/kg | |
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 3,72 | mg/m ³ | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 3,72 | mg/m ³ | |

| Carbon black | | | | | | |
|---------------------|--|-----------------------------|------------|-------|-------------------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| | Environment - freshwater | | PNEC | 1 | mg/l | |
| | Environment - marine | | PNEC | 0,1 | mg/l | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 0,06 | mg/m ³ | |

| Iron(III)oxide | | | | | | |
|---------------------|--|--------------------------|------------|-------|-------------------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 10 | mg/m ³ | |

GB WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). (8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage. ** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision. (13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.
 If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.
 Applies only if maximum permissible exposure values are listed here.

Page 18 of 49

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 19.01.2021 / 0011

Replacing version dated / version: 23.09.2019 / 0010

Valid from: 19.01.2021

PDF print date: 20.01.2021

Paintspray Case red 400 ml

Art.: 147521

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042.

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:

Solvent resistant protective gloves (EN 374).

Recommended

Protective nitrile gloves (EN 374).

With short-term contact:

Protective gloves in butyl rubber (EN 374).

Minimum layer thickness in mm:

0,7

Permeation time (penetration time) in minutes:

max. 15

Protective hand cream recommended.

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.

The recommended maximum wearing time is 50% of breakthrough time.

Skin protection - Other:

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:

If OES or MEL is exceeded.

Filter A P2 (EN 14387), code colour brown, white

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

Page 19 of 49

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 19.01.2021 / 0011

Replacing version dated / version: 23.09.2019 / 0010

Valid from: 19.01.2021

PDF print date: 20.01.2021

Paintspray Case red 400 ml

Art.: 147521

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--|---|
| Physical state: | Aerosol. Active substance: liquid. |
| Colour: | According to specification |
| Odour: | Characteristic |
| Odour threshold: | Not determined |
| pH-value: | n.a. |
| Melting point/freezing point: | Not determined |
| Initial boiling point and boiling range: | n.a. |
| Flash point: | <0 °C (Active substance) |
| Evaporation rate: | n.a. |
| Flammability (solid, gas): | n.a. |
| Lower explosive limit: | 1,5 Vol-% |
| Upper explosive limit: | 13 Vol-% |
| Vapour pressure: | 3600 hPa (20°C) |
| Vapour density (air = 1): | Not determined |
| Density: | 0,75-0,825 g/ml |
| Bulk density: | n.a. |
| Solubility(ies): | Not determined |
| Water solubility: | Not miscible |
| Partition coefficient (n-octanol/water): | Not determined |
| Auto-ignition temperature: | 365 °C (Ignition temperature) |
| Auto-ignition temperature: | No |
| Decomposition temperature: | Not determined |
| Viscosity: | n.a. |
| Explosive properties: | When using: development of explosive vapour/air mixture possible. |
| Oxidising properties: | No |

9.2 Other information

| | |
|---------------------------|----------------------------|
| Miscibility: | Not determined |
| Fat solubility / solvent: | Not determined |
| Conductivity: | Not determined |
| Surface tension: | Not determined |
| Solvents content: | 82,7 % (Organic solvents) |

SECTION 10: Stability and reactivity

10.1 Reactivity

The product has not been tested.

10.2 Chemical stability

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

No dangerous reactions are known.

10.4 Conditions to avoid

Heating, open flame, ignition sources

GB

Page 20 of 49
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 19.01.2021 / 0011
 Replacing version dated / version: 23.09.2019 / 0010
 Valid from: 19.01.2021
 PDF print date: 20.01.2021
 Paintspray Case red 400 ml
 Art.: 147521

Pressure increase will result in danger of bursting.
 Electrostatic charge

10.5 Incompatible materials

Avoid contact with strong acids.
 Avoid contact with strong alkalis.
 Avoid contact with oxidizing agents.

10.6 Hazardous decomposition products

No decomposition when used as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Possibly more information on health effects, see Section 2.1 (classification).

Paintspray Case red 400 ml Art.: 147521

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|---|----------|-------|----------|----------|-------------|--|
| Acute toxicity, by oral route: | | | | | | n.d.a. |
| Acute toxicity, by dermal route: | ATE | >2000 | mg/kg | | | calculated value |
| Acute toxicity, by inhalation: | ATE | >20 | mg/l/4 h | | | calculated value, Vapours |
| Acute toxicity, by inhalation: | ATE | >5 | mg/l/4 h | | | calculated value, Aerosol |
| Skin corrosion/irritation: | | | | | | n.d.a. |
| Serious eye damage/irritation: | | | | | | n.d.a. |
| Respiratory or skin sensitisation: | | | | | | n.d.a. |
| Germ cell mutagenicity: | | | | | | n.d.a. |
| Carcinogenicity: | | | | | | n.d.a. |
| Reproductive toxicity: | | | | | | n.d.a. |
| Specific target organ toxicity - single exposure (STOT-SE): | | | | | | n.d.a. |
| Specific target organ toxicity - repeated exposure (STOT-RE): | | | | | | n.d.a. |
| Aspiration hazard: | | | | | | n.d.a. |
| Symptoms: | | | | | | n.d.a. |
| Other information: | | | | | | Classification according to calculation procedure. |

Acetone

GB

Page 21 of 49
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 19.01.2021 / 0011
 Replacing version dated / version: 23.09.2019 / 0010
 Valid from: 19.01.2021
 PDF print date: 20.01.2021
 Paintspray Case red 400 ml
 Art.: 147521

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|---|----------|--------|----------|------------------------|--|---|
| Acute toxicity, by oral route: | LD50 | 5800 | mg/kg | Rat | OECD 401 (Acute Oral Toxicity) | |
| Acute toxicity, by dermal route: | LD50 | >15800 | mg/kg | Rat | | |
| Acute toxicity, by inhalation: | LC50 | 76 | mg/l/4 h | Rat | | |
| Skin corrosion/irritation: | | | | Guinea pig | | Repeated exposure may cause skin dryness or cracking., Not irritant |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Eye Irrit. 2 |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | Not sensitizing |
| Germ cell mutagenicity: | | | | Mouse | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test) | Negative |
| Germ cell mutagenicity: | | | | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Germ cell mutagenicity: | | | | Mammalian | OECD 473 (In Vitro Mammalian Chromosome Aberration Test) | Negative |
| Reproductive toxicity (Developmental toxicity): | | | | Rat | OECD 414 (Prenatal Developmental Toxicity Study) | Negative |
| Symptoms: | | | | | | unconsciousness, vomiting, headaches, gastrointestinal disturbances, fatigue, mucous membrane irritation, dizziness, nausea, drowsiness |

GB

Page 22 of 49
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 19.01.2021 / 0011
 Replacing version dated / version: 23.09.2019 / 0010
 Valid from: 19.01.2021
 PDF print date: 20.01.2021
 Paintspray Case red 400 ml
 Art.: 147521

| | | | | | | |
|---|-------|-----|------------|-----|--|--|
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAEL | 900 | mg/kg bw/d | Rat | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) | |
|---|-------|-----|------------|-----|--|--|

| n-butyl acetate | | | | | | |
|---|-----------------|--------------|-------------|------------------------|---|---|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | 10760 | mg/kg | Rat | OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method) | |
| Acute toxicity, by dermal route: | LD50 | >14112 | mg/kg | Rabbit | OECD 402 (Acute Dermal Toxicity) | |
| Acute toxicity, by inhalation: | LC50 | 21,1 | mg/l/4 h | Rat | OECD 403 (Acute Inhalation Toxicity) | Mist |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Not irritant |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Not irritant |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | No (skin contact) |
| Germ cell mutagenicity: | | | | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Reproductive toxicity: | NOAEC | 9640 | mg/m3 | | OECD 416 (Two-generation Reproduction Toxicity Study) | Negative |
| Specific target organ toxicity - single exposure (STOT-SE): | | | | | | Vapours may cause drowsiness and dizziness. |
| Specific target organ toxicity - repeated exposure (STOT-RE): | | | | | | Negative |

GB

Page 23 of 49
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 19.01.2021 / 0011
 Replacing version dated / version: 23.09.2019 / 0010
 Valid from: 19.01.2021
 PDF print date: 20.01.2021
 Paintspray Case red 400 ml
 Art.: 147521

| | | | | | | |
|---|-------|-----|-----|-----|--|---|
| Symptoms: | | | | | | drowsiness, unconsciousness, headaches, drowsiness, mucous membrane irritation, dizziness, nausea and vomiting. |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEC | 500 | ppm | Rat | | |
| Other information: | | | | | | Repeated exposure may cause skin dryness or cracking. |

| Xylene | | | | | | |
|------------------------------------|-----------------|--------------|-------------|-----------------|--|---|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | 3523 | mg/kg | Rat | Regulation (EC) 440/2008 B.1 (ACUTE ORAL TOXICITY) | |
| Acute toxicity, by dermal route: | LD50 | 12126 | mg/kg | Rabbit | | Does not conform with EU classification |
| Acute toxicity, by inhalation: | LD50 | 27,6 | mg/l/4 h | Rat | | Does not conform with EU classification ., Vapours |
| Skin corrosion/irritation: | | | | | | Irritant |
| Serious eye damage/irritation: | | | | | | Irritant |
| Respiratory or skin sensitisation: | | | | Mouse | OECD 429 (Skin Sensitisation - Local Lymph Node Assay) | No (skin contact) |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Carcinogenicity: | | | | | | Negative |
| Reproductive toxicity: | | | | | | Negative |
| Aspiration hazard: | | | | | | Yes |

GB

Page 24 of 49
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 19.01.2021 / 0011
 Replacing version dated / version: 23.09.2019 / 0010
 Valid from: 19.01.2021
 PDF print date: 20.01.2021
 Paintspray Case red 400 ml
 Art.: 147521

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|---|--|--|--|--|--|--|
| Symptoms: | | | | | | breathing difficulties, headaches, dizziness |
| Specific target organ toxicity - single exposure (STOT-SE), inhalative: | | | | | | Irritation of the respiratory tract |

2-methoxy-1-methylethyl acetate

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|------------------------------------|----------|-------|----------|------------|--|---|
| Acute toxicity, by oral route: | LD50 | >5000 | mg/kg | Rabbit | OECD 401 (Acute Oral Toxicity) | |
| Acute toxicity, by dermal route: | LD50 | >5000 | mg/kg | Rat | | |
| Acute toxicity, by inhalation: | LC50 | >23,8 | mg/l/6 h | Rat | | |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Not irritant |
| Serious eye damage/irritation: | | | | Rabbit | | Mild irritant |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | No (skin contact) |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial Reverse Mutation Test) | No indications of such an effect. |
| Symptoms: | | | | | | respiratory distress, drowsiness, unconsciousness, vomiting, headaches, mucous membrane irritation, dizziness, nausea |

Ethanol

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|----------------------------------|----------|-------|----------|----------|--------------------------------------|---------|
| Acute toxicity, by oral route: | LD50 | 10470 | mg/kg | Rat | OECD 401 (Acute Oral Toxicity) | |
| Acute toxicity, by dermal route: | LD50 | >2000 | mg/kg | Rabbit | OECD 402 (Acute Dermal Toxicity) | |
| Acute toxicity, by inhalation: | LC50 | 124,7 | mg/l/4 h | Rat | OECD 403 (Acute Inhalation Toxicity) | Vapours |

GB

Page 25 of 49
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 19.01.2021 / 0011
 Replacing version dated / version: 23.09.2019 / 0010
 Valid from: 19.01.2021
 PDF print date: 20.01.2021
 Paintspray Case red 400 ml
 Art.: 147521

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|------------------------------------|--|--|--|------------------------|---|---|
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Not irritant |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Irritant |
| Respiratory or skin sensitisation: | | | | Mouse | OECD 429 (Skin Sensitisation - Local Lymph Node Assay) | No (skin contact) |
| Germ cell mutagenicity: | | | | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Germ cell mutagenicity: | | | | Mouse | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test) | Negative |
| Germ cell mutagenicity: | | | | | OECD 473 (In Vitro Mammalian Chromosome Aberration Test) | Negative |
| Germ cell mutagenicity: | | | | | OECD 475 (Mammalian Bone Marrow Chromosome Aberration Test) | Negative |
| Aspiration hazard: | | | | Human being | | No indications of such an effect. |
| Symptoms: | | | | | | respiratory distress, drowsiness, unconsciousness, drop in blood pressure, vomiting, coughing, headaches, intoxication, drowsiness, mucous membrane irritation, dizziness, nausea |

GB

Page 26 of 49
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 19.01.2021 / 0011
 Replacing version dated / version: 23.09.2019 / 0010
 Valid from: 19.01.2021
 PDF print date: 20.01.2021
 Paintspray Case red 400 ml
 Art.: 147521

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|--------------------|--|--|--|--|--|---|
| Other information: | | | | | | Excessive alcohol consumption during pregnancy induces the foetus alcohol syndrome (reduced weight at birth, physical and mental disorders)., There is no sign that this syndrome is also caused by dermal or inhalative absorption., Experiences on persons. |
|--------------------|--|--|--|--|--|---|

| Isobutyl methyl ketone | | | | | | |
|------------------------------------|----------|----------|----------|----------|-------------|---|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | 2100 | mg/kg | Rat | | |
| Acute toxicity, by dermal route: | LD50 | 16000 | mg/kg | Rabbit | | |
| Acute toxicity, by inhalation: | LC50 | 8,3-16,6 | mg/l/4 h | Rat | | Vapours |
| Skin corrosion/irritation: | | | | | | Not irritant, Repeated exposure may cause skin dryness or cracking. |
| Serious eye damage/irritation: | | | | | | Eye Irrit. 2 |
| Respiratory or skin sensitisation: | | | | | | Not sensitizing |

GB

Page 27 of 49
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 19.01.2021 / 0011
 Replacing version dated / version: 23.09.2019 / 0010
 Valid from: 19.01.2021
 PDF print date: 20.01.2021
 Paintspray Case red 400 ml
 Art.: 147521

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|-----------|--|--|--|--|--|---|
| Symptoms: | | | | | | respiratory distress, unconsciousness, coughing, headaches, cramps, paralysis, gastrointestinal disturbances, mucous membrane irritation, dizziness |
|-----------|--|--|--|--|--|---|

Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$)

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|------------------------------------|----------|-------|----------|------------------------|--|---|
| Acute toxicity, by oral route: | LD50 | >5000 | mg/kg | Rat | OECD 425 (Acute Oral Toxicity - Up-and-Down Procedure) | |
| Acute toxicity, by dermal route: | LD50 | >5000 | mg/kg | Rabbit | | |
| Acute toxicity, by inhalation: | LD50 | >6,8 | mg/l/4 h | Rat | | |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Not irritant |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Not irritant, Mechanical irritation possible. |
| Respiratory or skin sensitisation: | | | | Mouse | OECD 429 (Skin Sensitisation - Local Lymph Node Assay) | Not sensitizing |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | No (skin contact) |
| Germ cell mutagenicity: | | | | Mouse | OECD 474 (Mammalian Erythrocyte Micronucleus Test) | Negative |
| Germ cell mutagenicity: | | | | Salmonella typhimurium | (Ames-Test) | Negative |
| Germ cell mutagenicity: | | | | | OECD 473 (In Vitro Mammalian Chromosome Aberration Test) | Negative |

GB

Page 28 of 49
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 19.01.2021 / 0011
 Replacing version dated / version: 23.09.2019 / 0010
 Valid from: 19.01.2021
 PDF print date: 20.01.2021
 Paintspray Case red 400 ml
 Art.: 147521

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|---|-------|------|---------|-----|---|---|
| Germ cell mutagenicity: | | | | | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test) | Negative |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Reproductive toxicity (Developmental toxicity): | | | | Rat | OECD 414 (Prenatal Developmental Toxicity Study) | No indications of such an effect. |
| Specific target organ toxicity - single exposure (STOT-SE): | | | | | | Not irritant (respiratory tract). |
| Symptoms: | | | | | | mucous membrane irritation, coughing, respiratory distress, drying of the skin. |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAEL | 3500 | mg/kg/d | Rat | | 90d |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEC | 10 | mg/m3 | Rat | | 90d |

Glycolic acid n-butyl ester

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|------------------------------------|----------|-------|----------|------------|--|---------------------------------|
| Acute toxicity, by oral route: | LD50 | 4595 | mg/kg | Rat | OECD 401 (Acute Oral Toxicity) | |
| Acute toxicity, by inhalation: | LC50 | > 6,2 | mg/l/4 h | Rat | | |
| Acute toxicity, by inhalation: | LC50 | > 6,2 | mg/l/4 h | Rat | OECD 403 (Acute Inhalation Toxicity) | |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Not irritant |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Risk of serious damage to eyes. |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | Not sensitizing |

GB

Page 29 of 49
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 19.01.2021 / 0011
 Replacing version dated / version: 23.09.2019 / 0010
 Valid from: 19.01.2021
 PDF print date: 20.01.2021
 Paintspray Case red 400 ml
 Art.: 147521

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|---|-------|------|------------|-------|--|----------|
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Germ cell mutagenicity: | | | | | OECD 473 (In Vitro Mammalian Chromosome Aberration Test) | Negative |
| Germ cell mutagenicity: | | | | Mouse | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test) | Negative |
| Reproductive toxicity: | NOAEL | 250 | mg/kg bw/d | Rat | OECD 414 (Prenatal Developmental Toxicity Study) | |
| Reproductive toxicity (Developmental toxicity): | NOAEL | 1250 | mg/kg bw/d | Rat | OECD 414 (Prenatal Developmental Toxicity Study) | Female |
| Aspiration hazard: | | | | | | No |

Oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1)

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|------------------------------------|----------|-------|-------|------------------------|--|-------------------------------|
| Acute toxicity, by dermal route: | LD50 | >2000 | mg/kg | Rat | OECD 402 (Acute Dermal Toxicity) | |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Eye Irrit. 2 |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | Negative |
| Germ cell mutagenicity: | | | | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Symptoms: | | | | | | eyes, reddened, watering eyes |

Amines, C12-18-alkyldimethyl

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|--------------------------------|----------|-------|------|----------|--------------------------------|-------------------------------------|
| Acute toxicity, by oral route: | LD50 | 1015 | | Rat | OECD 401 (Acute Oral Toxicity) | Analogous conclusion |
| Skin corrosion/irritation: | | | | Rabbit | | Skin Corr. 1B, Analogous conclusion |

GB

Page 30 of 49
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 19.01.2021 / 0011
 Replacing version dated / version: 23.09.2019 / 0010
 Valid from: 19.01.2021
 PDF print date: 20.01.2021
 Paintspray Case red 400 ml
 Art.: 147521

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|---|-------|-----|------------|-----------|--|--|
| Serious eye damage/irritation: | | | | | OECD 437 (Bovine Corneal Opacity + Permeability Test for Identif. Ocular Corros. + Severe Irritants) | Eye Irrit. 2, Does not conform with EU classification., Analogous conclusion |
| Germ cell mutagenicity: | | | | Mammalian | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test) | Negative, Analogous conclusion |
| Reproductive toxicity (Developmental toxicity): | NOEL | 100 | mg/kg bw/d | Rat | OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Development. Tox. Screening Test) | Analogous conclusion |
| Reproductive toxicity (Effects on fertility): | NOAEL | 25 | mg/kg bw/d | Rat | | Analogous conclusion |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOEL | 40 | mg/kg bw/d | Rat | OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Development. Tox. Screening Test) | Analogous conclusion |

Butane

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|--------------------------------|----------|-------|----------|----------|--|----------|
| Acute toxicity, by inhalation: | LC50 | 658 | mg/l/4 h | Rat | | |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Aspiration hazard: | | | | | | No |

GB

Page 31 of 49
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 19.01.2021 / 0011
 Replacing version dated / version: 23.09.2019 / 0010
 Valid from: 19.01.2021
 PDF print date: 20.01.2021
 Paintspray Case red 400 ml
 Art.: 147521

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|-----------|--|--|--|--|--|--|
| Symptoms: | | | | | | ataxia, breathing difficulties, drowsiness, unconsciousness, frostbite, disturbed heart rhythm, headaches, cramps, intoxication, dizziness, nausea and vomiting. |
|-----------|--|--|--|--|--|--|

| Quartz | | | | | | |
|-------------------|----------|-------|------|----------|-------------|--|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Symptoms: | | | | | | respiratory distress, coughing, mucous membrane irritation |

| Propane | | | | | | |
|---|----------|--------|----------|----------|--|--------------|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by inhalation: | LC50 | 658 | mg/l/4 h | Rat | | |
| Skin corrosion/irritation: | | | | | | Not irritant |
| Serious eye damage/irritation: | | | | | | Not irritant |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Reproductive toxicity (Developmental toxicity): | NOAEC | 21,641 | mg/l | | OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developmental Tox. Screening Test) | |
| Aspiration hazard: | | | | | | No |

GB

Page 32 of 49
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 19.01.2021 / 0011
 Replacing version dated / version: 23.09.2019 / 0010
 Valid from: 19.01.2021
 PDF print date: 20.01.2021
 Paintspray Case red 400 ml
 Art.: 147521

| | | | | | | |
|-----------|--|--|--|--|--|--|
| Symptoms: | | | | | | breathing difficulties, unconsciousness, frostbite, headaches, cramps, mucous membrane irritation, dizziness, nausea and vomiting. |
|-----------|--|--|--|--|--|--|

| Aluminium powder (stabilised) | | | | | | |
|--------------------------------------|----------|-------|----------|----------|-------------|----------------------------|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by inhalation: | LC50 | >5 | mg/l/4 h | Rat | | Dust, Mist |
| Skin corrosion/irritation: | | | | | | Not irritant |
| Serious eye damage/irritation: | | | | | | Not irritant |
| Respiratory or skin sensitisation: | | | | | | No (skin contact) |
| Symptoms: | | | | | | mucous membrane irritation |

| Carbon black | | | | | | |
|------------------------------------|----------|-------|-------|------------|--|-----------------|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | >2000 | mg/kg | Rat | | |
| Acute toxicity, by dermal route: | LD50 | >3000 | mg/kg | | | |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Not irritant |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Not irritant |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | Not sensitising |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Carcinogenicity: | | | | Mouse | | Negative |

GB

Page 33 of 49
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 19.01.2021 / 0011
 Replacing version dated / version: 23.09.2019 / 0010
 Valid from: 19.01.2021
 PDF print date: 20.01.2021
 Paintspray Case red 400 ml
 Art.: 147521

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|---|-------|--------|-------|-------|--|--------------------------------------|
| Specific target organ toxicity - repeated exposure (STOT-RE): | NOEL | 0,0011 | mg/l | | | References, Target organ(s): lung90d |
| Aspiration hazard: | | | | | | No |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAEL | 137 | mg/kg | Mouse | | |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAEL | 52 | mg/kg | Rat | | |

| Iron(III)oxide | | | | | | |
|--------------------------------|-----------------|--------------|-------------|-----------------|--------------------|---|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | >5000 | mg/kg | Rat | | Analogous conclusion |
| Acute toxicity, by inhalation: | LC50 | >210 | mg/m3 | Rat | | |
| Skin corrosion/irritation: | | | | Rabbit | | Not irritant, Analogous conclusion, Mechanical irritation possible. |
| Serious eye damage/irritation: | | | | Rabbit | | Not irritant, Analogous conclusion, Mechanical irritation possible. |
| Germ cell mutagenicity: | | | | | | No indications of such an effect. |
| Carcinogenicity: | | | | | | No indications of such an effect. |
| Reproductive toxicity: | | | | | | No indications of such an effect. |
| Aspiration hazard: | | | | | | No |
| Symptoms: | | | | | | respiratory distress, coughing, mucous membrane irritation |

GB

Page 34 of 49
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 19.01.2021 / 0011
 Replacing version dated / version: 23.09.2019 / 0010
 Valid from: 19.01.2021
 PDF print date: 20.01.2021
 Paintspray Case red 400 ml
 Art.: 147521

SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

Paintspray Case red 400 ml Art.: 147521

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|--|----------|------|-------|------|----------|-------------|---|
| 12.1. Toxicity to fish: | | | | | | | n.d.a. |
| 12.1. Toxicity to daphnia: | | | | | | | n.d.a. |
| 12.1. Toxicity to algae: | | | | | | | n.d.a. |
| 12.2. Persistence and degradability: | | | | | | | n.d.a. |
| 12.3. Bioaccumulative potential: | | | | | | | n.d.a. |
| 12.4. Mobility in soil: | | | | | | | n.d.a. |
| 12.5. Results of PBT and vPvB assessment | | | | | | | n.d.a. |
| 12.6. Other adverse effects: | | | | | | | n.d.a. |
| Other information: | | | | | | | Contains organically bound halogens, which may contribute to the AOX value in wastewater. |

Acetone

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|--------------------------------------|----------|------|-------|------|----------|---|-----------------------|
| 12.2. Persistence and degradability: | | 30d | 81-92 | % | | Regulation (EC) 440/2008 C.4-E (DETERMINATION OF 'READY' BIODEGRADABILITY - CLOSED BOTTLE TEST) | Readily biodegradable |

GB

Page 35 of 49

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 19.01.2021 / 0011

Replacing version dated / version: 23.09.2019 / 0010

Valid from: 19.01.2021

PDF print date: 20.01.2021

Paintspray Case red 400 ml

Art.: 147521

| | | | | | | | |
|--------------------------------------|-----------|-------|------------|------|---------------------------------|--|-----------------------|
| 12.3. Bioaccumulative potential: | Log Pow | | -0,24 | | | OECD 107 (Partition Coefficient (n-octanol/water) - Shake Flask Method) | |
| 12.3. Bioaccumulative potential: | BCF | | 0,19 | | | | |
| 12.1. Toxicity to fish: | LC50 | 96h | 5540 | mg/l | Oncorhynchus mykiss | | |
| 12.1. Toxicity to fish: | LC50 | 96h | 7500 | mg/l | Leuciscus idus | | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 6100-12700 | mg/l | Daphnia magna | | |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 28d | 2212 | mg/l | Daphnia pulex | OECD 211 (Daphnia magna Reproduction Test) | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 8800 | mg/l | Daphnia pulex | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.2. Persistence and degradability: | | 28d | 91 | % | | OECD 301 B (Ready Biodegradability - Co2 Evolution Test) | Readily biodegradable |
| 12.1. Toxicity to algae: | EC50 | 48h | 4740 | mg/l | Pseudokirchneriella subcapitata | | |
| 12.1. Toxicity to algae: | NOEC/NOEL | 48h | 3400 | mg/l | Pseudokirchneriella subcapitata | | |
| Toxicity to bacteria: | BOD/COD | 16h | 1700 | mg/l | Pseudomonas putida | | |
| Toxicity to bacteria: | EC10 | 30min | 1000 | mg/l | activated sludge | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) | |
| Other information: | BOD5 | | 1760-1900 | mg/g | | | |
| Other information: | AOX | | 0 | % | | | |

GB

Page 36 of 49
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 19.01.2021 / 0011
 Replacing version dated / version: 23.09.2019 / 0010
 Valid from: 19.01.2021
 PDF print date: 20.01.2021
 Paintspray Case red 400 ml
 Art.: 147521

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|--|--|--|--|--|--|--|-------------------------------------|
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |
| 12.4. Mobility in soil: | | | | | | | No adsorption in soil. |

| n-butyl acetate | | | | | | | |
|--|-----------|------|----------|------|-------------------------|--|--------------------------------------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.6. Other adverse effects: | | | | | | | Product floats on the water surface. |
| 12.1. Toxicity to fish: | LC50 | 96h | 18 | mg/l | Pimephales promelas | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 44 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 21d | 23 | mg/l | Daphnia magna | OECD 211 (Daphnia magna Reproduction Test) | |
| 12.1. Toxicity to algae: | EC50 | 72h | 397 | mg/l | Scenedesmus subspicatus | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.1. Toxicity to algae: | NOEC/NOEL | 72h | 200 | mg/l | Desmodesmus subspicatus | | |
| 12.2. Persistence and degradability: | | 28d | 98 | % | | OECD 301 D (Ready Biodegradability - Closed Bottle Test) | Readily biodegradable |
| 12.3. Bioaccumulative potential: | Log Pow | | 1,85-2,3 | | | | Low |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |
| Toxicity to bacteria: | EC10 | | 959 | mg/l | Pseudomonas putida | | |

| Xylene | | | | | | | |
|-------------------|----------|------|-------|------|----------|-------------|-------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |

GB

Page 37 of 49

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 19.01.2021 / 0011

Replacing version dated / version: 23.09.2019 / 0010

Valid from: 19.01.2021

PDF print date: 20.01.2021

Paintspray Case red 400 ml

Art.: 147521

| | | | | | | | |
|--|-----------|-----|------|------------------------|---------------------------|--|-------------------------------------|
| 12.1. Toxicity to algae: | IC50 | 72h | 4,36 | mg/l | Selenastrum capricornutum | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.1. Toxicity to fish: | LC50 | 96h | 2,6 | mg/l | Oncorhynchus mykiss | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.2. Persistence and degradability: | | 28d | 98 | % | | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | Readily biodegradable |
| 12.3. Bioaccumulative potential: | Log Kow | | 3,16 | | | | |
| 12.3. Bioaccumulative potential: | BCF | | 25,9 | | | | |
| 12.4. Mobility in soil: | H (Henry) | | 665 | Pa*m ³ /mol | | | |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |

2-methoxy-1-methylethyl acetate

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|--|-----------|------|---------|------|---------------------|--|-------------------------------------|
| 12.1. Toxicity to fish: | LC50 | 96h | 100-180 | mg/l | Oncorhynchus mykiss | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | >500 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 21d | >100 | mg/l | Daphnia magna | OECD 211 (Daphnia magna Reproduction Test) | |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |

GB

Page 38 of 49
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 19.01.2021 / 0011
 Replacing version dated / version: 23.09.2019 / 0010
 Valid from: 19.01.2021
 PDF print date: 20.01.2021
 Paintspray Case red 400 ml
 Art.: 147521

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|-----------------------|------|-------|-----------|------|------------------|--|--|
| Toxicity to bacteria: | EC20 | 30min | >100 0 | mg/l | activated sludge | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) | |
|-----------------------|------|-------|-----------|------|------------------|--|--|

Ethanol

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|--|-----------|------|------------|------|---------------------|--|---|
| 12.1. Toxicity to fish: | LC50 | 96h | 13000 | mg/l | Oncorhynchus mykiss | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.1. Toxicity to fish: | NOEC/NOEL | 120h | 250 | mg/l | Brachydanio rerio | OECD 212 (Fish, Short-term Toxicity Test on Embryo and Sac-fry Stages) | |
| 12.1. Toxicity to daphnia: | LC50 | 48h | 12340 | mg/l | Daphnia magna | | |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 10d | 9,6 | mg/l | Ceriodaphnia spec. | | References |
| 12.1. Toxicity to algae: | EC50 | 72h | 275 | mg/l | Chlorella vulgaris | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.2. Persistence and degradability: | | 28d | 97 | % | | OECD 301 B (Ready Biodegradability - Co2 Evolution Test) | Readily biodegradable |
| 12.3. Bioaccumulative potential: | Log Pow | | -0,32 | | | | Bioaccumulation is unlikely (LogPow < 1). |
| 12.3. Bioaccumulative potential: | BCF | | 0,66 - 3,2 | | | | |
| 12.4. Mobility in soil: | H (Henry) | | 0,000 138 | | | | |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |

GB

Page 39 of 49
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 19.01.2021 / 0011
 Replacing version dated / version: 23.09.2019 / 0010
 Valid from: 19.01.2021
 PDF print date: 20.01.2021
 Paintspray Case red 400 ml
 Art.: 147521

| | | | | | | | |
|-----------------------|-----------|----|-----------|------|------------------|--|----------------------|
| Toxicity to bacteria: | IC50 | 3h | >100 0 | mg/l | activated sludge | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) | Analogous conclusion |
| Other organisms: | NOEC/NOEL | | 280 | mg/l | Lemna gibba | OECD 201 (Alga, Growth Inhibition Test) | |

Isobutyl methyl ketone

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|--------------------------------------|-----------|------|-----------|------|---------------------------------|--|-----------------------|
| 12.1. Toxicity to fish: | LC50 | 96h | 505-540 | mg/l | Pimephales promelas | | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 170 | mg/l | Daphnia magna | | |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 28d | 78 | mg/l | Daphnia magna | | |
| 12.1. Toxicity to algae: | LC50 | 96h | 400 | mg/l | Pseudokirchneriella subcapitata | | |
| 12.2. Persistence and degradability: | | 7d | >99 | % | | OECD 301 E (Ready Biodegradability - Modified OECD Screening Test) | Readily biodegradable |
| 12.3. Bioaccumulative potential: | Log Pow | | 1,31-1,38 | | | | |
| Toxicity to bacteria: | EC50 | 16h | 275 | mg/l | Pseudomonas putida | | |

Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm)

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|----------------------------|----------|------|-------|------|---------------------------------|--|-------|
| 12.1. Toxicity to fish: | LC50 | 96h | >100 | mg/l | Oncorhynchus mykiss | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.1. Toxicity to daphnia: | LC50 | 48h | >100 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.1. Toxicity to algae: | EC50 | 72h | 16 | mg/l | Pseudokirchneriella subcapitata | U.S. EPA-600/9-78-018 | |

GB

Page 40 of 49
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 19.01.2021 / 0011
 Replacing version dated / version: 23.09.2019 / 0010
 Valid from: 19.01.2021
 PDF print date: 20.01.2021
 Paintspray Case red 400 ml
 Art.: 147521

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|--|-----------|-----|--------|-------|-------------------------|--|--|
| 12.2. Persistence and degradability: | | | | | | | Not relevant for inorganic substances. |
| 12.3. Bioaccumulative potential: | BCF | 42d | 9,6 | | | | Not to be expected |
| 12.3. Bioaccumulative potential: | BCF | 14d | 19-352 | | | | Oncorhynchus mykiss |
| 12.4. Mobility in soil: | | | | | | | Negative |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |
| Toxicity to bacteria: | | | >5000 | mg/l | Escherichia coli | | |
| Toxicity to bacteria: | LC0 | 24h | >10000 | mg/l | Pseudomonas fluorescens | | |
| Toxicity to annelids: | NOEC/NOEL | | >1000 | mg/kg | Eisenia foetida | | |
| Water solubility: | | | | | | | Insoluble 20°C |

Glycolic acid n-butyl ester

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|--|----------|------|--------|------|--------------------|--|-------------------------------------|
| 12.1. Toxicity to daphnia: | EC50 | 24h | 280 | mg/l | Daphnia magna | DIN 38412 T.11 | |
| 12.1. Toxicity to algae: | EC50 | 7d | >87,44 | mg/l | | OECD 221 (Lemna sp. Growth Inhibition Test) | |
| 12.2. Persistence and degradability: | | 28d | 82 | % | | OECD 301 B (Ready Biodegradability - Co2 Evolution Test) | |
| 12.3. Bioaccumulative potential: | Log Pow | | 0,38 | | | | calculated value |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |
| Toxicity to bacteria: | EC20 | 18h | 2320 | mg/l | Pseudomonas putida | DIN 38412 T.8 | |

Oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1)

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|-------------------|----------|------|-------|------|----------|-------------|-------|
|-------------------|----------|------|-------|------|----------|-------------|-------|

GB

Page 41 of 49
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 19.01.2021 / 0011
 Replacing version dated / version: 23.09.2019 / 0010
 Valid from: 19.01.2021
 PDF print date: 20.01.2021
 Paintspray Case red 400 ml
 Art.: 147521

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|--------------------------------------|------|-----|------|------|-------------------|--|-----------------------|
| 12.2. Persistence and degradability: | | 28d | 66 | % | | OECD 301 D (Ready Biodegradability - Closed Bottle Test) | Readily biodegradable |
| 12.1. Toxicity to fish: | LC50 | 96h | 0,95 | mg/l | Brachydanio rerio | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.1. Toxicity to daphnia: | EC50 | 21d | 1,41 | mg/l | Daphnia magna | OECD 211 (Daphnia magna Reproduction Test) | |

Amines, C12-18-alkyldimethyl

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|--------------------------------------|----------|------|--------|------|-------------------------|--|----------------------|
| 12.1. Toxicity to fish: | LC50 | 96h | 0,620 | mg/l | Brachydanio rerio | OECD 203 (Fish, Acute Toxicity Test) | Analogous conclusion |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 0,188 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | Analogous conclusion |
| 12.1. Toxicity to algae: | ErC50 | 72h | 0,0099 | mg/l | Desmodesmus subspicatus | OECD 201 (Alga, Growth Inhibition Test) | Analogous conclusion |
| 12.2. Persistence and degradability: | | 23d | >99 | % | | OECD 303 A (Simulation Test - Aerobic Sewage Treatment - Activated Sludge Units) | Analogous conclusion |

Butane

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|----------------------------------|----------|------|-------|------|----------|-------------|---|
| 12.1. Toxicity to fish: | LC50 | 96h | 24,11 | mg/l | | QSAR | |
| 12.1. Toxicity to daphnia: | LC50 | 48h | 14,22 | mg/l | | QSAR | |
| 12.3. Bioaccumulative potential: | Log Pow | | 2,98 | | | | A notable biological accumulation potential is not to be expected (LogPow 1-3). |

GB

Page 42 of 49
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 19.01.2021 / 0011
 Replacing version dated / version: 23.09.2019 / 0010
 Valid from: 19.01.2021
 PDF print date: 20.01.2021
 Paintspray Case red 400 ml
 Art.: 147521

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|--|--|--|--|--|--|--|-------------------------------------|
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |
|--|--|--|--|--|--|--|-------------------------------------|

| Quartz | | | | | | | |
|--|----------|------|-------|------|----------|-------------|--|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.2. Persistence and degradability: | | | | | | | Not relevant for inorganic substances. |
| 12.3. Bioaccumulative potential: | | | | | | | Not to be expected |
| 12.4. Mobility in soil: | | | | | | | Low |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |

| Propane | | | | | | | |
|--|----------|------|-------|------|----------|-------------|---|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.3. Bioaccumulative potential: | Log Pow | | 2,28 | | | | A notable biological accumulation potential is not to be expected (LogPow 1-3). |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |

| Carbon black | | | | | | | |
|----------------------------|----------|------|-----------|------|-------------------|--|---|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| Water solubility: | | | | | | | Insoluble, Product floats on the water surface. |
| 12.1. Toxicity to fish: | LC50 | 96h | >100 0 | mg/l | Brachydanio rerio | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.1. Toxicity to daphnia: | EC50 | 24h | >560 0 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |

GB

Page 43 of 49
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 19.01.2021 / 0011
 Replacing version dated / version: 23.09.2019 / 0010
 Valid from: 19.01.2021
 PDF print date: 20.01.2021
 Paintspray Case red 400 ml
 Art.: 147521

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|--------------------------------------|-----------|----|-------|------|-------------------------|--|--------------------|
| 12.1. Toxicity to algae: | NOEC/NOEL | 3d | 10000 | mg/l | Scenedesmus subspicatus | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.2. Persistence and degradability: | | | | | | | Not biodegradable |
| 12.3. Bioaccumulative potential: | | | | | | | Not to be expected |
| Toxicity to bacteria: | EC0 | 3h | >=800 | mg/l | activated sludge | Regulation (EC) 440/2008 C.22 (SOIL MICROORGANISMS - CARBON TRANSFORMATION TEST) | |

Iron(III)oxide

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|--|----------|------|--------|------|------------------|--|--|
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |
| 12.1. Toxicity to fish: | LC50 | 96h | >1000 | mg/l | Leuciscus idus | | Analogous conclusion |
| 12.1. Toxicity to daphnia: | EC50 | 48h | >100 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.2. Persistence and degradability: | | | | | | | Not relevant for inorganic substances. |
| 12.3. Bioaccumulative potential: | | | | | | | Not to be expected |
| Toxicity to bacteria: | EC50 | 3h | >10000 | mg/l | activated sludge | ISO 8192 | |

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be

GB

Page 44 of 49
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 19.01.2021 / 0011
 Replacing version dated / version: 23.09.2019 / 0010
 Valid from: 19.01.2021
 PDF print date: 20.01.2021
 Paintspray Case red 400 ml
 Art.: 147521

allocated under certain circumstances. (2014/955/EU)
 08 01 11 waste paint and varnish containing organic solvents or other hazardous substances
 16 05 04 gases in pressure containers (including halons) containing hazardous substances
 Recommendation:
 Sewage disposal shall be discouraged.
 Pay attention to local and national official regulations.
 Take full aerosol cans to problem waste collection.
 Take emptied aerosol cans to valuable material collection.
For contaminated packing material
 Pay attention to local and national official regulations.
 Do not perforate, cut up or weld uncleaned container.
 15 01 04 metallic packaging

SECTION 14: Transport information


General statements

14.1. UN number: 1950

Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:

UN 1950 AEROSOLS

14.3. Transport hazard class(es): 2.1 

14.4. Packing group: -

Classification code: 5F

LQ: 1 L


14.5. Environmental hazards: Not applicable

Tunnel restriction code: D

Transport by sea (IMDG-code)

14.2. UN proper shipping name:

AEROSOLS

14.3. Transport hazard class(es): 2.1 

14.4. Packing group: -

EmS: F-D, S-U


Marine Pollutant: n.a

14.5. Environmental hazards: Not applicable

Transport by air (IATA)

14.2. UN proper shipping name:

Aerosols, flammable

14.3. Transport hazard class(es): 2.1 

14.4. Packing group: -

14.5. Environmental hazards: Not applicable

14.6. Special precautions for user

Persons employed in transporting dangerous goods must be trained.

All persons involved in transporting must observe safety regulations.

Precautions must be taken to prevent damage.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Freighted as packaged goods rather than in bulk, therefore not applicable.

Minimum amount regulations have not been taken into account.

Danger code and packing code on request.

Comply with special provisions.

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 19.01.2021 / 0011
 Replacing version dated / version: 23.09.2019 / 0010
 Valid from: 19.01.2021
 PDF print date: 20.01.2021
 Paintspray Case red 400 ml
 Art.: 147521

SECTION 15: Regulatory information

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

Observe restrictions:
 Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)!
 Comply with trade association/occupational health regulations.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others may also need to be considered according to storage, handling etc.):

| Hazard categories | Notes to Annex I | Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Lower-tier requirements | Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Upper-tier requirements |
|-------------------|------------------|---|---|
| P3b | 11.1, 11.2 | 5000 (netto) | 50000 (netto) |

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 2 - This product contains the substances listed below:

| Entry Nr | Dangerous substances | Notes to Annex I | Qualifying quantity (tonnes) for the application of - Lower-tier requirements | Qualifying quantity (tonnes) for the application of - Upper-tier requirements |
|----------|--|------------------|---|---|
| 18 | Liquefied flammable gases, Category 1 or 2 (including LPG) and natural gas | 19 | 50 | 200 |

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Directive 2010/75/EU (VOC): 82,66 %

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections: 2, 3, 8, 11, 12, 15
 Employee training in handling dangerous goods is required.
 These details refer to the product as it is delivered.
 Employee instruction/training in handling hazardous materials is required.

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 19.01.2021 / 0011
 Replacing version dated / version: 23.09.2019 / 0010
 Valid from: 19.01.2021
 PDF print date: 20.01.2021
 Paintspray Case red 400 ml
 Art.: 147521

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

| Classification in accordance with regulation (EC) No. 1272/2008 (CLP) | Evaluation method used |
|--|---|
| Eye Irrit. 2, H319 | Classification according to calculation procedure. |
| STOT SE 3, H336 | Classification according to calculation procedure. |
| Aerosol 1, H222 | Classification according to calculation procedure. |
| Aerosol 1, H229 | Classification based on the form or physical state. |

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H351 Suspected of causing cancer by inhalation.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H361 Suspected of damaging fertility or the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.

- Eye Irrit. — Eye irritation
- STOT SE — Specific target organ toxicity - single exposure - narcotic effects
- Aerosol — Aerosols
- Flam. Liq. — Flammable liquid
- Asp. Tox. — Aspiration hazard
- Acute Tox. — Acute toxicity - dermal
- Skin Irrit. — Skin irritation
- Acute Tox. — Acute toxicity - inhalation
- STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation
- STOT RE — Specific target organ toxicity - repeated exposure
- Carc. — Carcinogenicity



Page 47 of 49

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 19.01.2021 / 0011

Replacing version dated / version: 23.09.2019 / 0010

Valid from: 19.01.2021

PDF print date: 20.01.2021

Paintspray Case red 400 ml

Art.: 147521

Eye Dam. — Serious eye damage

Repr. — Reproductive toxicity

Aquatic Acute — Hazardous to the aquatic environment - acute

Aquatic Chronic — Hazardous to the aquatic environment - chronic

Acute Tox. — Acute toxicity - oral

Skin Corr. — Skin corrosion

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Page 48 of 49

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 19.01.2021 / 0011

Replacing version dated / version: 23.09.2019 / 0010

Valid from: 19.01.2021

PDF print date: 20.01.2021

Paintspray Case red 400 ml

Art.: 147521

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Any abbreviations and acronyms used in this document:

acc., acc. to according, according to

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOX Adsorbable organic halogen compounds

approx. approximately

Art., Art. no. Article number

ASTM ASTM International (American Society for Testing and Materials)

ATE Acute Toxicity Estimate

BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)

BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)

BSEF The International Bromine Council

bw body weight

CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

DMEL Derived Minimum Effect Level

DNEL Derived No Effect Level

dw dry weight

e.g. for example (abbreviation of Latin 'exempli gratia'), for instance

EC European Community

ECHA European Chemicals Agency

EEC European Economic Community

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

Page 49 of 49

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 19.01.2021 / 0011

Replacing version dated / version: 23.09.2019 / 0010

Valid from: 19.01.2021

PDF print date: 20.01.2021

Paintspray Case red 400 ml

Art.: 147521

EN European Norms
EPA United States Environmental Protection Agency (United States of America)
etc. et cetera
EU European Union
EVAL Ethylene-vinyl alcohol copolymer
Fax. Fax number
gen. general
GHS Globally Harmonized System of Classification and Labelling of Chemicals
GWP Global warming potential
IARC International Agency for Research on Cancer
IATA International Air Transport Association
IBC (Code) International Bulk Chemical (Code)
IMDG-code International Maritime Code for Dangerous Goods
incl. including, inclusive
IUCLID International Uniform Chemical Information Database
IUPAC International Union for Pure Applied Chemistry
LC50 Lethal Concentration to 50 % of a test population
LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)
LQ Limited Quantities
MARPOL International Convention for the Prevention of Marine Pollution from Ships
n.a. not applicable
n.av. not available
n.c. not checked
n.d.a. no data available
OECD Organisation for Economic Co-operation and Development
org. organic
PBT persistent, bioaccumulative and toxic
PE Polyethylene
PNEC Predicted No Effect Concentration
ppm parts per million
PVC Polyvinylchloride
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)
REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.
RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)
SVHC Substances of Very High Concern
Tel. Telephone
UN RTDG United Nations Recommendations on the Transport of Dangerous Goods
VOC Volatile organic compounds
vPvB very persistent and very bioaccumulative
wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.