



Trade name: Marabu do it Satin Matt 013, 150 ml

Version: 4 / GB

Date revised: 09.07.2019

Substance number: 21070006013

Replaces Version: 3 / GB

Print date: 13.07.19

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

1.1. Product identifier

Marabu do it Satin Matt 013, 150 ml

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

Use of the substance/preparation

Colour spray

Identified Uses

SU21

Consumer uses: Private households (= general public = consumers)

PC9a

Coatings and paints, thinners, paint removers

1.3. Details of the supplier of the safety data sheet

Address

Marabu GmbH & Co. KG

Asperger Strasse 4

71732 Tamm

Germany

Telephone no.

+49-7141/691-0

Fax no.

+49-7141/691-147

Information provided

Department product safety

by / telephone

E-mail address of

PRSI@marabu.de

person responsible

for this SDS

1.4. Emergency telephone number

(+49) (0)621-60-43333

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Aerosol 1 H222

H229

Eye Irrit. 2 H319

STOT SE 3 H336

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Danger

Hazard statements

H222

Extremely flammable aerosol.



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Version: 4 / GB

Date revised: 09.07.2019

Substance number: 21070006013

Replaces Version: 3 / GB

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H229 Pressurised container: May burst if heated.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
 P102 Keep out of reach of children.
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P211 Do not spray on an open flame or other ignition source.
 P251 Do not pierce or burn, even after use.
 P264.1 Wash hands thoroughly after handling.
 P271 Use only outdoors or in a well-ventilated area.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P405 Store locked up.
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.
 P501.9 Dispose of contents/container as problematic waste.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains Ethyl acetate;Propan-2-ol;n-Butyl acetate;2-Methoxy-1-methylethyl acetate

Supplemental information

EUH066 Repeated exposure may cause skin dryness or cracking.

Further supplemental information

Without adequate ventilation, explosive atmosphere/gas mix may be created.

2.3. Other hazards

No special hazards have to be mentioned.

SECTION 3: Composition/information on ingredients *****3.2. Mixtures****Chemical characterization**

Solvent based colour spray

Hazardous ingredients**Ethyl acetate**

| | | | | | |
|------------------|------------------|---|----|---|--|
| CAS No. | 141-78-6 | | | | |
| EINECS no. | 205-500-4 | | | | |
| Registration no. | 01-2119475103-46 | | | | |
| Concentration | >= 10 | < | 20 | % | |

Classification (Regulation (EC) No. 1272/2008)

| | |
|--------------|------|
| Flam. Liq. 2 | H225 |
| Eye Irrit. 2 | H319 |
| STOT SE 3 | H336 |

Propan-2-ol

| | | | | | |
|------------------|------------------|---|----|---|--|
| CAS No. | 67-63-0 | | | | |
| EINECS no. | 200-661-7 | | | | |
| Registration no. | 01-2119457558-25 | | | | |
| Concentration | >= 10 | < | 20 | % | |

Classification (Regulation (EC) No. 1272/2008)

| | |
|--------------|------|
| Flam. Liq. 2 | H225 |
| Eye Irrit. 2 | H319 |



Trade name: Marabu do it Satin Matt 013, 150 ml

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STOT SE 3 H336

n-Butyl acetate

CAS No. 123-86-4
 EINECS no. 204-658-1
 Registration no. 01-2119485493-29
 Concentration >= 1 < 10 %

Classification (Regulation (EC) No. 1272/2008)
 Flam. Liq. 3 H226
 STOT SE 3 H336

2-Butoxyethanol

CAS No. 111-76-2
 EINECS no. 203-905-0
 Registration no. 01-2119475108-36
 Concentration >= 1 < 10 %

Classification (Regulation (EC) No. 1272/2008)
 Skin Irrit. 2 H315
 Acute Tox. 4 H332
 Acute Tox. 4 H312
 Acute Tox. 4 H302
 Eye Irrit. 2 H319

2-Methoxy-1-methylethyl acetate

CAS No. 108-65-6
 EINECS no. 203-603-9
 Registration no. 01-2119475791-29
 Concentration >= 1 < 10 %

Classification (Regulation (EC) No. 1272/2008)
 Flam. Liq. 3 H226
 STOT SE 3 H336

Further ingredients ***

Hydrocarbons, C3-4; Petroleum gas

CAS No. 68476-40-4
 EINECS no. 270-681-9
 Registration no. 01-2119486557-22
 Concentration >= 25 < 50 % [3]

Classification (Regulation (EC) No. 1272/2008)
 Flam. Gas 1 H220
 Press. Gas H280

*
 *
 *

[3] Substance with occupational exposure limits

SECTION 4: First aid measures

4.1. Description of first aid measures



Trade name: Marabu do it Satin Matt 013, 150 ml

Version: 4 / GB

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General information

In all cases of doubt, or when symptoms persist, seek medical attention. If unconscious place in recovery position and seek medical advice.

After inhalation

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Summon a doctor immediately.

After skin contact

After contact with skin, wash immediately with plenty of water. Don't use solvents.

After eye contact

Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

After ingestion

Summon a doctor immediately. Keep at rest. Do NOT induce vomiting.

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

Until now no symptoms known so far.

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

Hints for the physician / treatment

Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Recommended: alcohol resistant foam, CO₂, powders, water spray/mist, Not be used for safety reasons: water jet

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released: Carbon monoxide (CO); Carbon dioxide (CO₂); dense black smoke

5.3. Advice for firefighters

Special protective equipment for fire-fighting

In case of combustion use a suitable breathing apparatus.

Other information

Cool endangered containers with water spray jet. Collect contaminated fire-fighting water separately, must not be discharged into the drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep away sources of ignition. Ensure adequate ventilation. Do not breathe gas/fumes/vapour/spray. Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Do not empty into drains. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean preferably with a detergent - avoid use of solvents.

6.4. Reference to other sections



Trade name: Marabu do it Satin Matt 013, 150 ml

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Refer to protective measures listed in Sections 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Provide good ventilation of working area (local exhaust ventilation if necessary). Handle and open container with care. Isolate from sources of heat, sparks and open flame. Avoid skin and eye contact. Smoking, eating and drinking shall be prohibited in application area. Comply with the health and safety at work laws.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge.

Classification of fires / temperature class / Ignition group / Dust explosion class

Classification of fires C (Flammable gases)

Temperature class T2

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in accordance with national regulation

Further information on storage conditions

Keep away from sources of ignition. Keep container in a cool, well-ventilated place. Observe label precautions.

7.3. Specific end use(s)

Colour spray

SECTION 8: Exposure controls/personal protection ***

8.1. Control parameters

Exposure limit values ***

Ethyl acetate

| | | | |
|---------------------------|------|-----|--------|
| List | EH40 | | |
| Type | WEL | | |
| Value | | 200 | ppm(V) |
| Short term exposure limit | | 400 | ppm(V) |
| Status: 2011 | | | |

2-Methoxy-1-methylethyl acetate

| | | | |
|--|--------------|-------------------|------------|
| List | EH40 | | |
| Type | WEL | | |
| Value | 274 | mg/m ³ | 50 ppm(V) |
| Short term exposure limit | 548 | mg/m ³ | 100 ppm(V) |
| Skin resorption / sensibilisation: Sk; | Status: 2011 | | |

Propan-2-ol

| | | | |
|---------------------------|------|-------------------|------------|
| List | EH40 | | |
| Type | WEL | | |
| Value | 999 | mg/m ³ | 400 ppm(V) |
| Short term exposure limit | 1250 | mg/m ³ | 500 ppm(V) |
| Status: 2011 | | | |

2-Butoxyethanol

| | | | |
|-------|------|----|--------|
| List | EH40 | | |
| Type | WEL | | |
| Value | | 25 | ppm(V) |

Safety data sheet in accordance with regulation (EC) No 1907/2006



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Version: 4 / GB

Date revised: 09.07.2019

Substance number: 21070006013

Replaces Version: 3 / GB

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Short term exposure limit 50 ppm(V)

Skin resorption / sensibilisation: Sk; Status: 2011

n-Butyl acetate

| | | | | |
|---------------------------|------|-------------------|-----|--------|
| List | EH40 | | | |
| Type | WEL | | | |
| Value | 724 | mg/m ³ | 150 | ppm(V) |
| Short term exposure limit | 966 | mg/m ³ | 200 | ppm(V) |
| Status: 2011 | | | | |

Derived No/Minimal Effect Levels (DNEL/DMEL) ***

Hydrocarbons, C3-4; Petroleum gas

| | | | | |
|----------------------|-------------------------------------|--|--|-------------------|
| Type of value | Derived Minimal Effect Level (DMEL) | | | |
| Reference group | Worker | | | |
| Duration of exposure | Long term | | | |
| Route of exposure | inhalative | | | |
| Mode of action | Systemic effects | | | |
| Concentration | 2,21 | | | mg/m ³ |

| | | | | |
|----------------------|--------------------------------|--|--|---------|
| Type of value | Derived No Effect Level (DNEL) | | | |
| Reference group | Worker | | | |
| Duration of exposure | Long term | | | |
| Route of exposure | dermal | | | |
| Mode of action | Systemic effects | | | |
| Concentration | 23,4 | | | mg/kg/d |

| | | | | |
|----------------------|-------------------------------------|--|--|-------------------|
| Type of value | Derived Minimal Effect Level (DMEL) | | | |
| Reference group | Consumer | | | |
| Duration of exposure | Long term | | | |
| Route of exposure | inhalative | | | |
| Mode of action | Systemic effects | | | |
| Concentration | 0,066 | | | mg/m ³ |

Ethyl acetate

| | | | | |
|----------------------|--------------------------------|--|--|-------------------|
| Type of value | Derived No Effect Level (DNEL) | | | |
| Reference group | Worker | | | |
| Duration of exposure | Acute | | | |
| Route of exposure | inhalative | | | |
| Concentration | 1468 | | | mg/m ³ |

| | | | | |
|----------------------|--------------------------------|--|--|------------------|
| Type of value | Derived No Effect Level (DNEL) | | | |
| Reference group | Worker | | | |
| Duration of exposure | Acute | | | |
| Route of exposure | inhalative | | | |
| Mode of action | Local effects | | | |
| Concentration | 1468 | | | g/m ³ |

| | | | | |
|-------------------|--------------------------------|--|--|-------|
| Type of value | Derived No Effect Level (DNEL) | | | |
| Reference group | Worker | | | |
| Route of exposure | dermal | | | |
| Mode of action | Chronic effects | | | |
| Concentration | 63 | | | mg/kg |

| | | | | |
|-------------------|--------------------------------|--|--|-------------------|
| Type of value | Derived No Effect Level (DNEL) | | | |
| Reference group | Worker | | | |
| Route of exposure | inhalative | | | |
| Mode of action | Chronic effects | | | |
| Concentration | 734 | | | mg/m ³ |

Safety data sheet in accordance with regulation (EC) No 1907/2006



Trade name: Marabu do it Satin Matt 013, 150 ml

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Substance number: 21070006013

Replaces Version: 3 / GB

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Type of value Derived No Effect Level (DNEL)
 Reference group Worker
 Route of exposure inhalative
 Mode of action Chronic effects
 Concentration 734 mg/m³

Type of value Derived No Effect Level (DNEL)
 Reference group Consumer
 Route of exposure inhalative
 Mode of action Acute effects
 Concentration 734 mg/m³

Type of value Derived No Effect Level (DNEL)
 Reference group Consumer
 Route of exposure inhalative
 Mode of action Local effects
 Concentration 734 mg/m³

Type of value Derived No Effect Level (DNEL)
 Reference group Consumer
 Route of exposure dermal
 Mode of action Chronic effects
 Concentration 37 mg/kg

Type of value Derived No Effect Level (DNEL)
 Reference group Consumer
 Route of exposure inhalative
 Mode of action Chronic effects
 Concentration 367 mg/m³

Type of value Derived No Effect Level (DNEL)
 Reference group Consumer
 Route of exposure oral
 Mode of action Chronic effects
 Concentration 4,5 mg/m³

Type of value Derived No Effect Level (DNEL)
 Reference group Consumer
 Route of exposure inhalative
 Mode of action Local effects
 Concentration 367 mg/m³

2-Methoxy-1-methylethyl acetate

Type of value Derived No Effect Level (DNEL)
 Reference group Worker
 Duration of exposure Long term
 Route of exposure dermal
 Mode of action Systemic effects
 Concentration 796 mg/kg/d

Type of value Derived No Effect Level (DNEL)
 Reference group Worker
 Duration of exposure Long term
 Route of exposure inhalative
 Mode of action Systemic effects
 Concentration 275 mg/m³

Safety data sheet in accordance with regulation (EC) No 1907/2006



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Replaces Version: 3 / GB

Print date: 13.07.19

| | | |
|----------------------|--------------------------------|---------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long term | |
| Route of exposure | dermal | |
| Mode of action | Systemic effects | |
| Concentration | 320 | mg/kg/d |

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 33 | mg/m ³ |

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long term | |
| Route of exposure | inhalative | |
| Mode of action | Local effects | |
| Concentration | 33 | mg/m ³ |

| | | |
|----------------------|--------------------------------|---------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long term | |
| Route of exposure | oral | |
| Mode of action | Systemic effects | |
| Concentration | 36 | mg/kg/d |

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Worker | |
| Duration of exposure | Lifetime | |
| Route of exposure | inhalative | |
| Mode of action | Local effects | |
| Concentration | 550 | mg/m ³ |

Propan-2-ol

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Worker | |
| Duration of exposure | Long term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 500 | mg/m ³ |

| | | |
|----------------------|--------------------------------|---------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Worker | |
| Duration of exposure | Long term | |
| Route of exposure | dermal | |
| Mode of action | Systemic effects | |
| Concentration | 888 | mg/kg/d |

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | General Population | |
| Duration of exposure | Long term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 89 | mg/m ³ |

Safety data sheet in accordance with regulation (EC) No 1907/2006



Trade name: Marabu do it Satin Matt 013, 150 ml

Version: 4 / GB

Date revised: 09.07.2019

Substance number: 21070006013

Replaces Version: 3 / GB

Print date: 13.07.19

| | | |
|----------------------|--------------------------------|---------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | General Population | |
| Duration of exposure | Long term | |
| Route of exposure | dermal | |
| Mode of action | Systemic effects | |
| Concentration | 319 | mg/kg/d |

| | | |
|----------------------|--------------------------------|---------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | General Population | |
| Duration of exposure | Long term | |
| Route of exposure | oral | |
| Mode of action | Systemic effects | |
| Concentration | 26 | mg/kg/d |

2-Butoxyethanol

| | | |
|----------------------|--------------------------------|-------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Worker | |
| Duration of exposure | Acute | |
| Route of exposure | dermal | |
| Mode of action | Systemic effects | |
| Concentration | 89 | mg/kg |

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Worker | |
| Duration of exposure | Short term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 1091 | mg/m ³ |

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | General Population | |
| Duration of exposure | Short term | |
| Route of exposure | inhalative | |
| Mode of action | Local effects | |
| Concentration | 147 | mg/m ³ |

| | | |
|----------------------|--------------------------------|-------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Worker | |
| Duration of exposure | Long term | |
| Route of exposure | dermal | |
| Mode of action | Systemic effects | |
| Concentration | 125 | mg/kg |

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Worker | |
| Duration of exposure | Long term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 98 | mg/m ³ |

| | | |
|----------------------|--------------------------------|-------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Acute | |
| Route of exposure | dermal | |
| Mode of action | Systemic effects | |
| Concentration | 89,5 | mg/kg |

Safety data sheet in accordance with regulation (EC) No 1907/2006



Trade name: Marabu do it Satin Matt 013, 150 ml

Version: 4 / GB

Date revised: 09.07.2019

Substance number: 21070006013

Replaces Version: 3 / GB

Print date: 13.07.19

Type of value Derived No Effect Level (DNEL)
 Reference group Consumer
 Duration of exposure Acute
 Route of exposure inhalative
 Mode of action Systemic effects
 Concentration 426 mg/m³

Type of value Derived No Effect Level (DNEL)
 Reference group Consumer
 Duration of exposure Acute
 Route of exposure oral
 Mode of action Systemic effects
 Concentration 26,7 mg/kg

Type of value Derived No Effect Level (DNEL)
 Reference group Consumer
 Duration of exposure Acute
 Route of exposure inhalative
 Mode of action Local effects
 Concentration 147 mg/kg

Type of value Derived No Effect Level (DNEL)
 Reference group Consumer
 Duration of exposure Long term
 Route of exposure dermal
 Mode of action Systemic effects
 Concentration 75 mg/kg

Type of value Derived No Effect Level (DNEL)
 Reference group Consumer
 Duration of exposure Long term
 Route of exposure inhalative
 Mode of action Systemic effects
 Concentration 59 mg/m³

Type of value Derived No Effect Level (DNEL)
 Reference group Consumer
 Duration of exposure Long term
 Route of exposure oral
 Mode of action Systemic effects
 Concentration 6,3 mg/kg

n-Butyl acetate

Type of value Derived No Effect Level (DNEL)
 Reference group Worker
 Duration of exposure Short term
 Route of exposure inhalative
 Mode of action Systemic effects
 Concentration 960 mg/m³

Type of value Derived No Effect Level (DNEL)
 Reference group Worker
 Duration of exposure Short term
 Route of exposure inhalative
 Mode of action Local effects
 Concentration 960 mg/m³

Safety data sheet in accordance with regulation (EC) No 1907/2006



Trade name: Marabu do it Satin Matt 013, 150 ml

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Date revised: 09.07.2019

Substance number: 21070006013

Replaces Version: 3 / GB

Print date: 13.07.19

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Worker | |
| Duration of exposure | Long term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 300 | mg/m ³ |
| | | |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Worker | |
| Duration of exposure | Long term | |
| Route of exposure | inhalative | |
| Mode of action | Local effects | |
| Concentration | 480 | mg/m ³ |
| | | |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | General Population | |
| Duration of exposure | Short term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 859,7 | mg/m ³ |
| | | |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | General Population | |
| Duration of exposure | Short term | |
| Route of exposure | inhalative | |
| Mode of action | Local effects | |
| Concentration | 859,7 | mg/m ³ |
| | | |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | General Population | |
| Duration of exposure | Long term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 102,34 | mg/m ³ |
| | | |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | General Population | |
| Duration of exposure | Long term | |
| Route of exposure | inhalative | |
| Mode of action | Local effects | |
| Concentration | 102,34 | mg/m ³ |
| | | |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Worker | |
| Duration of exposure | Long term | |
| Route of exposure | dermal | |
| Mode of action | Systemic effects | |
| Concentration | 11 | mg/kg/d |

Predicted No Effect Concentration (PNEC)

Ethyl acetate

| | | |
|---------------|-------|------|
| Type of value | PNEC | |
| Type | Water | |
| Concentration | 0,26 | mg/l |
| | | |
| Type of value | PNEC | |



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Replaces Version: 3 / GB

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| | | |
|---------------|---------------------|-------|
| Type | Aquatic | |
| Concentration | 0,026 | mg/l |
| Type of value | PNEC | |
| Type | Freshwater sediment | |
| Concentration | 0,34 | mg/kg |
| Type of value | PNEC | |
| Type | Marine sediment | |
| Concentration | 0,034 | mg/kg |
| Type of value | PNEC | |
| Type | Soil | |
| Concentration | 0,22 | mg/kg |

2-Methoxy-1-methylethyl acetate

| | | |
|---------------------|---------------------------------|-------|
| Reference substance | 2-Methoxy-1-methylethyl acetate | |
| Type of value | PNEC | |
| Type | Freshwater | |
| Concentration | 0,635 | mg/l |
| Type of value | PNEC | |
| Type | Freshwater sediment | |
| Concentration | 3,29 | mg/kg |
| Type of value | PNEC | |
| Type | Soil | |
| Concentration | 0,29 | mg/kg |
| Source | Literature value | |
| Type of value | PNEC | |
| Type | Sewage treatment plant (STP) | |
| Concentration | 100 | mg/l |
| Source | Literature value | |
| Type of value | PNEC | |
| Type | Marine sediment | |
| Concentration | 0,329 | mg/kg |
| Source | Literature value | |
| Type of value | PNEC | |
| Type | Saltwater | |
| Concentration | 0,0635 | mg/l |

Propan-2-ol

| | | |
|---------------|------------------------------|------|
| Type of value | PNEC | |
| Type | Freshwater | |
| Concentration | 140,9 | mg/l |
| Type of value | PNEC | |
| Type | Saltwater | |
| Concentration | 140,9 | mg/l |
| Type of value | PNEC | |
| Type | Sewage treatment plant (STP) | |
| Concentration | 2251 | mg/l |

Safety data sheet in accordance with regulation (EC) No 1907/2006



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Replaces Version: 3 / GB

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| | | |
|---------------|---------------------|-------|
| Type of value | PNEC | |
| Type | Freshwater sediment | |
| Concentration | 552 | mg/kg |

| | | |
|---------------|-----------------|-------|
| Type of value | PNEC | |
| Type | Marine sediment | |
| Concentration | 552 | mg/kg |

| | | |
|---------------|------|-------|
| Type of value | PNEC | |
| Type | Soil | |
| Concentration | 28 | mg/kg |

2-Butoxyethanol

| | | |
|---------------|------------|------|
| Type of value | PNEC | |
| Type | Freshwater | |
| Concentration | 8,8 | mg/l |

| | | |
|---------------|------|-------|
| Type of value | PNEC | |
| Type | Soil | |
| Concentration | 2,8 | mg/kg |

| | | |
|---------------|---------------------|-------|
| Type of value | PNEC | |
| Type | Freshwater sediment | |
| Concentration | 34,6 | mg/kg |

| | | |
|---------------|------------------------------|------|
| Type of value | PNEC | |
| Type | Sewage treatment plant (STP) | |
| Concentration | 463 | mg/l |

| | | |
|---------------|-----------|------|
| Type of value | PNEC | |
| Type | Saltwater | |
| Concentration | 0,88 | mg/l |

| | | |
|---------------|-----------------|-------|
| Type of value | PNEC | |
| Type | Marine sediment | |
| Concentration | 3,46 | mg/kg |

n-Butyl acetate

| | | |
|---------------|------------|------|
| Type of value | PNEC | |
| Type | Freshwater | |
| Concentration | 0,18 | mg/l |

| | | |
|---------------|-----------|------|
| Type of value | PNEC | |
| Type | Saltwater | |
| Concentration | 0,018 | mg/l |

| | | |
|---------------|---------------------|-------|
| Type of value | PNEC | |
| Type | Freshwater sediment | |
| Concentration | 0,981 | mg/kg |

| | | |
|---------------|-----------------|-------|
| Type of value | PNEC | |
| Type | Marine sediment | |
| Concentration | 0,0981 | mg/kg |

| | | |
|---------------|--------|-------|
| Type of value | PNEC | |
| Type | Soil | |
| Concentration | 0,0903 | mg/kg |



Trade name: Marabu do it Satin Matt 013, 150 ml

Version: 4 / GB

Date revised: 09.07.2019

Substance number: 21070006013

Replaces Version: 3 / GB

Print date: 13.07.19

| | | | |
|---------------|------------------------------|--|------|
| Type of value | PNEC | | |
| Type | Sewage treatment plant (STP) | | |
| Concentration | 35,6 | | mg/l |
| | | | |
| Type of value | PNEC | | |
| Type | Water (intermittent release) | | |
| Concentration | 0,36 | | mg/l |

8.2. Exposure controls

Exposure controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Respiratory protection

If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators. Short term: filter apparatus, Filter A/P2; Self-contained breathing apparatus.

Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

For prolonged or repeated handling nitrile rubber gloves with textile undergloves are required.

Material thickness > 0,5 mm

Breakthrough time < 30 min

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

Eye protection

Safety glasses

Body protection

Personnel should wear anti-static clothing made of natural fibre or of high temperature resistant synthetic fibre.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | | | |
|--|------------------|-----|----|
| Form | Aerosol | | |
| Colour | coloured | | |
| Odour | solvent-like | | |
| pH value | | | |
| Remarks | Not applicable | | |
| Melting point | | | |
| Remarks | not determined | | |
| Initial boiling point and boiling range | | | |
| Value | appr. 76 | | °C |
| Pressure | 1.013 | hPa | |
| Source | Literature value | | |
| Flash point | | | |



Trade name: Marabu do it Satin Matt 013, 150 ml

Version: 4 / GB

Date revised: 09.07.2019

Substance number: 21070006013

Replaces Version: 3 / GB

Print date: 13.07.19

Remarks Not applicable

Upper/lower flammability or explosive limits

| | | |
|-----------------------|------------------|------|
| Lower explosion limit | appr. 1,5 | %(V) |
| Upper explosion limit | appr. 15 | %(V) |
| Source | Literature value | |

Density

| | | |
|-------------|------|-------------------|
| Value | 0,75 | g/cm ³ |
| Temperature | 20 | °C |

Solubility in water

Remarks immiscible

Partition coefficient: n-octanol/water

Remarks Not applicable

Ignition temperature

| | | |
|--------|------------------|----|
| Value | appr. 420 | °C |
| Source | Literature value | |

Viscosity

| | |
|---------|----------------|
| Remarks | |
| Remarks | not determined |

9.2. Other information**Other information**

The physical specifications are approximate values and refer to the used safety relevant component(s).

SECTION 10: Stability and reactivity**10.1. Reactivity**

None known

10.2. Chemical stability

Stable under recommended storage and handling conditions (see section 7).

10.3. Possibility of hazardous reactions

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

10.4. Conditions to avoid

When exposed to high temperatures may produce hazardous decomposition products. Protect from heat and direct sunlight.

10.5. Incompatible materials

None known

10.6. Hazardous decomposition products

See chapter 5.2 (Firefighting measures - Special hazards arising from the substance or mixture).

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute inhalational toxicity**

Remarks Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Remarks Based on available data, the classification criteria are not met.

Serious eye damage/irritation

evaluation irritant



Trade name: Marabu do it Satin Matt 013, 150 ml

Version: 4 / GB

Date revised: 09.07.2019

Substance number: 21070006013

Replaces Version: 3 / GB

Print date: 13.07.19

Remarks The classification criteria are met.

Sensitization

Remarks Based on available data, the classification criteria are not met.

Mutagenicity

Remarks Based on available data, the classification criteria are not met.

Reproductive toxicity

Remarks Based on available data, the classification criteria are not met.

Carcinogenicity

Remarks Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity (STOT)

Single exposure

Remarks The classification criteria are met.
evaluation May cause drowsiness or dizziness.

Repeated exposure

Remarks Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Experience in practice

Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation. Ingestion may cause nausea, diarrhoea and vomiting.

Other information

There are no data available on the mixture itself.
The mixture has been assessed following the additivity method of the GHS/CLP Regulation (EC) No 1272/2008.

SECTION 12: Ecological information

12.1. Toxicity

General information

There are no data available on the mixture itself. Do not allow to enter drains or water courses. The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is not classified as dangerous for the environment.

12.2. Persistence and degradability

General information

There are no data available on the mixture itself.

12.3. Bioaccumulative potential

Partition coefficient: n-octanol/water

Remarks Not applicable

12.4. Mobility in soil

General information

There are no data available on the mixture itself.



Trade name: Marabu do it Satin Matt 013, 150 ml

Version: 4 / GB

Date revised: 09.07.2019

Substance number: 21070006013

Replaces Version: 3 / GB

Print date: 13.07.19

12.5. Results of PBT and vPvB assessment

General information

There are no data available on the mixture itself.

12.6. Other adverse effects

General information

There are no data available on the mixture itself.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

Do not allow to enter drains or water courses.

Disposal recommendations for packaging

Completely emptied packagings can be given for recycling.

Not emptied containers are hazardous waste (waste code number 150110).

SECTION 14: Transport information

Land transport ADR/RID

14.1. UN number

UN 1950

14.2. UN proper shipping name

AEROSOLS

14.3. Transport hazard class(es)

| | |
|-------|-----|
| Class | 2 |
| Label | 2.1 |

14.4. Packing group

| | |
|--------------------|-----|
| Packing group | - |
| Limited Quantity | 1 I |
| Transport category | 2 |

14.5. Environmental hazards

| | |
|-------------------------|---|
| - | |
| Tunnel restriction code | D |

Marine transport IMDG/GGVSee

14.1. UN number

UN 1950

14.2. UN proper shipping name

AEROSOLS

14.3. Transport hazard class(es)

| | |
|-------|-----|
| Class | 2.1 |
|-------|-----|

14.4. Packing group

| | |
|---------------|---|
| Packing group | - |
|---------------|---|

14.5. Environmental hazards

no

Air transport ICAO/IATA

14.1. UN number

UN 1950

14.2. UN proper shipping name

AEROSOLS

14.3. Transport hazard class(es)

| | |
|-------|-----|
| Class | 2.1 |
|-------|-----|

14.4. Packing group



Trade name: Marabu do it Satin Matt 013, 150 ml

Version: 4 / GB

Date revised: 09.07.2019

Substance number: 21070006013

Replaces Version: 3 / GB

Print date: 13.07.19

Packing group -

14.5. Environmental hazards

-

Information for all modes of transport**14.6. Special precautions for user**

Transport within the user's premises:

Always transport in closed containers that are upright and secure.

Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Other information**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

no

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Major-accident categories acc. 96/82/EC**

| | | | | | | |
|----------|---|---------------------|--------|----|--------|----|
| Category | 8 | Extremely flammable | 10.000 | kg | 50.000 | kg |
|----------|---|---------------------|--------|----|--------|----|

VOC

| | | | | |
|----------|------|---|-----|-----|
| VOC (CH) | 83,6 | % | 627 | g/l |
|----------|------|---|-----|-----|

| | | | | |
|----------|------|---|-----|-----|
| VOC (EU) | 83,6 | % | 627 | g/l |
|----------|------|---|-----|-----|

Other information

The product does not contain substances of very high concern (SVHC).

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: Other information**Hazard statements listed in Chapter 3**

| | |
|------|-------------------------------------|
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H336 | May cause drowsiness or dizziness. |

CLP categories listed in Chapter 3

| | |
|---------------|--|
| Acute Tox. 4 | Acute toxicity, Category 4 |
| Eye Irrit. 2 | Eye irritation, Category 2 |
| Flam. Liq. 2 | Flammable liquid, Category 2 |
| Flam. Liq. 3 | Flammable liquid, Category 3 |
| Skin Irrit. 2 | Skin irritation, Category 2 |
| STOT SE 3 | Specific target organ toxicity - single exposure, Category 3 |

Abbreviations

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route

RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses

GGVSee: Gefahrgutverordnung See

IMDG: International Maritime Code for Dangerous Goods

ICAO: International Air Transport Association

IATA: International Civil Aviation Organization

CAS: Chemical Abstracts Service

Safety data sheet in accordance with regulation (EC) No 1907/2006



Trade name: Marabu do it Satin Matt 013, 150 ml

Version: 4 / GB

Date revised: 09.07.2019

Substance number: 21070006013

Replaces Version: 3 / GB

Print date: 13.07.19

EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
EmS: Emergency Schedules
AICS: Australian Inventory of Chemical Substances
MITI: Ministry of International Trade and Industry (Japan)
TSCA: Toxic Substances Control Act (USA)
VOC: Volatile Organic Compound
LD: Lethal dose
LC: Lethal concentration
SVHC: Substances of very high concern
DNEL: Derived no effect level
PNEC: Predicted no effect concentration
UN: United Nations
OEL: Occupational exposure limit

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship. The information in this Safety Data Sheet is based on the present state of knowledge and current legislation.

It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions.

As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.