

SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2020/878)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name: GRAVOLAQUE

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

Relevant identified uses: Liquid paint. Only for industrial user use.

1.3. Details of the supplier of the safety data sheet

Registered company name: GRAVOTECH MARKING SAS.

Address: 56, avenue Jean Jaurès. 10600.La Chapelle Saint Luc.France.

Telephone: +33 (0)3 25 41 65 65. Fax: +33 (0)3 25 79 04 25.

e-mail: info@gravograph.fr http://www.gravograph.com

1.4. Emergency telephone number: +33 (0)1 45 42 59 59.

Association/Organisation: INRS / ORFILA http://www.centres-antipoison.net.

Other emergency numbers

National Poisons Information Service of England: http://npis.org - NHS 111: dial 111 - National Poisons Information Centre of Ireland: 353 (1) 809 2166 - LUXEMBOURG: (+352) 8002 5500 - European Emergency Number Association (EENA): 112

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture



In compliance with EC regulation No. 1272/2008 and its amendments.

Flammable liquid, Category 3 (Flam. Liq. 3, H226).

Skin irritation, Category 2 (Skin Irrit. 2, H315).

Eye irritation, Category 2 (Eye Irrit. 2, H319).

Specific target organ toxicity (single exposure), Category 3 (STOT SE 3, H336).

Specific target organ toxicity (repeated exposure), Category 1 (STOT RE 1, H372).

Specific target organ toxicity (repeated exposure), Category 2 (STOT RE 2, H373).

Hazardous to the aquatic environment - Chronic hazard, Category 3 (Aquatic Chronic 3, H412).

2.2. Label elements



In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms:







GHS08

GHS02

GHS07

Signal Word : DANGER

Product identifiers :

EC 919-446-0 HYDROCARBONS, C9-C12, N-ALKANES, ISOALKANES, CYCLICS, AROMATICS (2-25%)

EC 215-535-7 XYLENE

EC 265-150-3 NAPHTHA (PETROLEUM), HYDROTREATED HEAVY

EC 918-668-5 HYDROCARBONS, C9, AROMATICS

Additional labeling:

EUH201 Contains lead. Should not be used on surfaces liable to be chewed or sucked by children.

Hazard statements :

H226 Flammable liquid and vapour.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.

H372 Causes damage to organs through prolonged or repeated exposure .

H373 May cause damage to organs through prolonged or repeated exposure (if swallowed).

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements - Prevention:

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

smoking.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements - Response :

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P370 + P378 In case of fire: Use ABC versatile powder to extinguish.

Precautionary statements - Disposal:

P501 Dispose of contents/container at a disposal facility in accordance with local regulations.



2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) >= 0.1% published by the European CHemicals Agency (ECHA) under article 57 of REACH: http://echa.europa.eu/fr/candidate-list-table

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

The mixture does not contain substances> = 0.1% with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Chemical description: mixture based on additives, fillers, pigments, plasticizers and resin in solvents.



Composition:

| Identification | Classification (EC) 1272/2008 | Note | % |
|---------------------------------|-------------------------------|------|----------------|
| CAS: 64742-82-1 | GHS09, GHS07, GHS08, GHS02 | | 10 <= x % < 25 |
| EC: 919-446-0 | Dgr | | |
| REACH: 01-2119458049-33 | Flam. Liq. 3, H226 | | |
| | Asp. Tox. 1, H304 | | |
| HYDROCARBONS, C9-C12, | STOT SE 3, H336 | | |
| N-ALKANES, ISOALKANES, CYCLICS, | STOT RE 1, H372 | | |
| AROMATICS (2-25%) | Aquatic Chronic 2, H411 | | |
| | EUH:066 | | |
| CAS: 1330-20-7 | GHS07, GHS08, GHS02 | С | 10 <= x % < 25 |
| EC: 215-535-7 | Dgr | [1] | |
| REACH: 01-2119488216-32 | Flam. Liq. 3, H226 | | |
| | Asp. Tox. 1, H304 | | |
| XYLENE | Acute Tox. 4, H312 | | |
| | Skin Irrit. 2, H315 | | |
| | Eye Irrit. 2, H319 | | |
| | Acute Tox. 4, H332 | | |
| | STOT SE 3, H335 | | |
| | STOT RE 2, H373 | | |
| | Aquatic Chronic 3, H412 | | |
| CAS: 64742-48-9 | GHS07, GHS08, GHS02 | [1] | 5 <= x % < 10 |
| EC: 265-150-3 | Dgr | | |
| REACH: 01-2119457273-39 | Flam. Liq. 3, H226 | | |
| | Asp. Tox. 1, H304 | | |
| NAPHTHA (PETROLEUM), | STOT SE 3, H336 | | |
| HYDROTREATED HEAVY | EUH:066 | | |
| CAS: 123-86-4 | GHS07, GHS02 | [1] | 2.5 <= x % < 5 |
| EC: 204-658-1 | Wng | | |
| REACH: 01-2119485493-29 | Flam. Liq. 3, H226 | | |
| | STOT SE 3, H336 | | |

| N-BUTYL ACETATE | EUH:066 | | |
|-------------------------------------|---|-----|-------------------|
| CAS: 123-42-2 | GHS07 | [1] | 1 <= x % < 2.5 |
| EC: 204-626-7 | Wng | | |
| REACH: 01-2119473975-21 | Eye Irrit. 2, H319 | | |
| 4-HYDROXY-4-METHYLPENTAN-2-ONE | | | |
| CAS: 128601-23-0 | GHS09, GHS07, GHS08, GHS02 | | 1 <= x % < 2.5 |
| EC: 918-668-5 | Dgr | | |
| REACH: 01-2119455851-35 | Flam. Liq. 3, H226 Asp. Tox. 1, H304 | | |
| HYDROCARBONS, C9, AROMATICS | STOT SE 3, H335 | | |
| , , | STOT SE 3, H336 | | |
| | Aquatic Chronic 2, H411 | | |
| | EUH:066 | | |
| CAS: 108-65-6 | GHS02 | [1] | 1 <= x % < 2.5 |
| EC: 203-603-9 | Wng | - | |
| REACH: 01-2119475791-29 | Flam. Liq. 3, H226 | | |
| 2-METHOXY-1-METHYLETHYL ACETATE | | | |
| CAS: 111-76-2 | GHS07 | [1] | 0.5 <= x % < 1 |
| EC: 203-905-0 | Wng | | |
| REACH: 01-2119475108-36 | Acute Tox. 4, H302 | | |
| | Skin Irrit. 2, H315 | | |
| 2-BUTOXYETHANOL | Eye Irrit. 2, H319 | | |
| | Acute Tox. 4, H332 | | |
| CAS: 100-41-4 | GHS07, GHS08, GHS02 | [1] | 0.25 <= x % < 0.5 |
| EC: 202-849-4 | Dgr | | |
| REACH: 01-2119489370-35 | Flam. Liq. 2, H225 | | |
| | Asp. Tox. 1, H304 | | |
| ETHYLBENZENE | Acute Tox. 4, H332 | | |
| | STOT RE 2, H373 | | |
| | Aquatic Chronic 3, H412 | | |
| CAS: 34590-94-8 | | [1] | x % < 0.2 |
| EC: 252-104-2 | | | |
| REACH: 01-2119450011-60 | | | |
| DIPROPYLENE GLYCOL MONOMETHYL ETHER | | | |



| pecific concentration limits: | | |
|-------------------------------|-------------------------------|---|
| Identification | Specific concentration limits | ATE |
| CAS: 1330-20-7 | | inhalation: ATE = 11 mg/l 4h |
| EC: 215-535-7 | | (vapours) |
| REACH: 01-2119488216-32 | | dermal: ATE = 1100 mg/kg BW oral: ATE = 2100 mg/kg BW |
| XYLENE | | |
| CAS: 64742-48-9 | | dermal: ATE = 3160 mg/kg BW |
| EC: 265-150-3 | | oral: ATE = 15000 mg/kg BW |
| REACH: 01-2119457273-39 | | |
| NAPHTHA (PETROLEUM), | | |
| HYDROTREATED HEAVY | | |
| CAS: 123-86-4 | | inhalation: ATE = 23.4 mg/l 4h |
| EC: 204-658-1 | | (dust/mist) |
| REACH: 01-2119485493-29 | | dermal: ATE = 14112 mg/kg BW |
| | | oral: ATE = 12789 mg/kg BW |
| N-BUTYL ACETATE | | |
| CAS: 123-42-2 | | dermal: ATE = 13630 mg/kg BW |
| EC: 204-626-7 | | oral: ATE = 4000 mg/kg BW |
| REACH: 01-2119473975-21 | | |

| 4-HYDROXY-4-METHYLPENTAN-2-ONE | |
|---------------------------------|--------------------------------|
| CAS: 128601-23-0 | inhalation: ATE = 6193 mg/l 4h |
| EC: 918-668-5 | (dust/mist) |
| REACH: 01-2119455851-35 | dermal: ATE = 3160 mg/kg BW |
| | oral: ATE = 3492 mg/kg BW |
| HYDROCARBONS, C9, AROMATICS | |
| CAS: 108-65-6 | inhalation: ATE = 30 mg/l 4h |
| EC: 203-603-9 | (vapours) |
| REACH: 01-2119475791-29 | dermal: ATE = 5100 mg/kg BW |
| | oral: ATE = 8532 mg/kg BW |
| 2-METHOXY-1-METHYLETHYL ACETATE | |
| CAS: 111-76-2 | dermal: ATE = 3000 mg/kg BW |
| EC: 203-905-0 | oral: ATE = 1200 mg/kg BW |
| REACH: 01-2119475108-36 | |
| | |
| 2-BUTOXYETHANOL | |
| CAS: 100-41-4 | inhalation: ATE = 17.2 mg/l 4h |
| EC: 202-849-4 | (vapours) |
| REACH: 01-2119489370-35 | dermal: ATE = 15354 mg/kg BW |
| | oral: ATE = 3500 mg/kg BW |
| ETHYLBENZENE | |
| CAS: 34590-94-8 | dermal: ATE = 9510 mg/kg BW |
| EC: 252-104-2 | |
| REACH: 01-2119450011-60 | |
| DIDDODY/ FNE OLYGOL MONOMETLIV | |
| DIPROPYLENE GLYCOL MONOMETHYL | |
| ETHER | |



Information on ingredients:

(Full text of H-phrases: see section 16)

[1] Substance for which maximum workplace exposure limits are available.

SECTION 4: FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

4.1. description of first aid measures

In the event of exposure by inhalation :

In the event of massive inhalation, remove the person exposed to fresh air. Keep warm and at rest.

If the person is unconscious, place in recovery position. Notify a doctor in all events, to ascertain whether observation and supportive hospital care will be necessary.

If breathing is irregular or has stopped, effect mouth-to-mouth resuscitation and call a doctor.

In the event of splashes or contact with eyes :

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

If there is any redness, pain or visual impairment, consult an ophthalmologist.



In the event of splashes or contact with skin:

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

If the contaminated aera is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

In the event of swallowing:

Do not give the patient anything orally.

Keep the person exposed at rest. Do not force vomiting.

Seek medical attention immediately, showing the label.

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

No data available.

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

No data available.

SECTION 5: FIREFIGHTING MEASURES

Flammable.

Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.

5.1. Extinguishing media

Keep packages near the fire cool, to prevent pressurised containers from bursting.



Suitable methods of extinction

In the event of a fire, use:

- carbon dioxide (CO2)
- powder

Prevent the effluent of fire-fighting measures from entering drains or waterways.

Unsuitable methods of extinction

In the event of a fire, do not use:

- water jet

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed:

- carbon monoxide (CO)
- carbon dioxide (CO2)

5.3. Advice for firefighters

Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For non first aid worker

Because of the organic solvents contained in the mixture, eliminate sources of ignition and ventilate the area.

Avoid inhaling the vapors.

Avoid any contact with the skin and eyes.

If a large quantity has been spilt, evacuate all personnel and only allow intervention by trained operators equipped with safety apparatus.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures

Use drums to dispose of collected waste in compliance with current regulations (see section 13).

6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent, do not use solvents.

6.4. Reference to other sections

No data available.



SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Ensure that there is adequate ventilation, especially in confined areas.

Remove contaminated clothing and protective equipment before entering eating areas.

Fire prevention:

Handle in well-ventilated areas.

Vapours are heavier than air. They can spread along the ground and form mixtures that are explosive with air.

Prevent the formation of flammable or explosive concentrations in air and avoid vapor concentrations higher than the occupational exposure limits

Prevent the accumulation of electrostatic charges with connections to earth.

The mixture can become electrostatically charged: always ground when decanting. Wear antistatic shoes and clothing and make floors of non-conductive

Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected.

Keep packages tightly closed and away from sources of heat, sparks and naked flames.

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Do not use tools which may produce sparks. Do not smoke.

Prevent access by unauthorised personnel.

Recommended equipment and procedures:

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Avoid inhaling vapors. Carry out any industrial operation which may give rise to this in a sealed apparatus.

Provide vapor extraction at the emission source and also general ventilation of the premises.

Also provide breathing apparatus for certain short tasks of an exceptional nature and for emergency interventions.

In all cases, recover emissions at source.

Avoid skin and eye contact with this mixture.

Avoid exposure - obtain special instructions before use.

Packages which have been opened must be reclosed carefully and stored in an upright position.

Prohibited equipment and procedures:

No smoking, eating or drinking in areas where the mixture is used.

Never open the packages under pressure.

7.2. Conditions for safe storage, including any incompatibilities

No data available.



Storage

Keep the container tightly closed in a dry, well-ventilated place.

Keep away from all sources of ignition - do not smoke.

Keep well away from all sources of ignition, heat and direct sunlight.

Avoid accumulation of electrostatic charges.

The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

Storage temperature: 5 - 30°C. Storage Period: 24 months.

Packaging

Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

No data available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters



Occupational exposure limits :

- European Union (2022/431, 2019/1831, 2017/2398, 2017/164, 2009/161, 2006/15/CE, 2000/39/CE, 98/24/CE):

| CAS | VME-mg/m3: | VME-ppm: | VLE-mg/m3: | VLE-ppm: | Notes : |
|------------|------------|----------|------------|----------|---------|
| 1330-20-7 | 221 | 50 | 442 | 100 | Peau |
| 123-86-4 | 241 | 50 | 723 | 150 | |
| 108-65-6 | 275 | 50 | 550 | 100 | Peau |
| 111-76-2 | 98 | 20 | 246 | 50 | Peau |
| 100-41-4 | 442 | 100 | 884 | 200 | Peau |
| 34590-94-8 | 308 | 50 | - | - | Peau |

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010):

| CAS | TWA: | STEL: | Ceiling : | Definition : | Criteria : |
|------------|---------|---------|-----------|--------------|------------|
| 1330-20-7 | 100 ppm | 150 ppm | | A4; BEI | |
| 123-86-4 | 150 ppm | 200 ppm | | | |
| 123-42-2 | 50 ppm | | | | |
| 111-76-2 | 20 ppm | | | A3; BEI | |
| 100-41-4 | 20 ppm | | | A3; BEI | |
| 34590-94-8 | 100 ppm | 150 ppm | | Skin | |

- Germany - AGW (BAuA - TRGS 900, 02/2022) :

| CAS | VME : | VME : | Excess | Notes |
|-----------|-------|-----------------------|--------|-------|
| 1330-20-7 | | 50 ppm | | 2(II) |
| | | 220 mg/m ³ | | |
| 123-86-4 | | 62 ppm | | 2 (I) |
| | | 300 mg/m ³ | | |
| 123-42-2 | | 20 ppm | | 2(I) |
| | | 96 mg/m ³ | | |
| 108-65-6 | | 50 ppm | | 1(I) |
| | | 270 mg/m ³ | | |
| 111-76-2 | | 10 ppm | | 2(I) |

| | 49 mg/m³ | |
|------------|-----------|-------|
| 100-41-4 | 20 ppm | 2(II) |
| | 88 mg/m³ | _(, |
| 34590-94-8 | 50 ppm | 1(I) |
| | 310 mg/m³ | |

- Australia (NOHSC: 3008, 1995):

| CAS | TWA: | STEL: | Ceiling: | Definition: | Criteria : |
|------------|------------|-----------|----------|-------------|------------|
| 1330-20-7 | 80 ppm | 150 ppm | - | - | - |
| 123-86-4 | 150 ppm | 200 ppm | | Н | |
| | 713 mg/m3 | 950 mg/m3 | | | |
| 123-42-2 | 50 ppm | | | Н | |
| | 238 mg/m3 | | | | |
| 108-65-6 | 50 ppm | 100 ppm | | | |
| | 274 mg/m3 | 548 mg/m3 | | | |
| 111-76-2 | 20 ppm | 50 ppm | | | |
| | 96.9 mg/m3 | 242 mg/m3 | | | |
| 100-41-4 | 100 ppm | 125 ppm | | Н | |
| | 434 mg/m3 | 543 mg/m3 | | | |
| 34590-94-8 | 50 ppm | | | | |
| | 308 mg/m3 | | | | |

- Austria (BGBI. II Nr. 156/2021):

| CAS | TWA: | STEL: | Ceiling: | Definition : | Criteria : |
|------------|-----------------------|-----------------------|----------|--------------|------------|
| 1330-20-7 | 50 ppm | 100 ppm | | | |
| | 221 mg/m ³ | 442 mg/m³ | | | |
| 123-86-4 | 50 ppm | 100 ppm | | | |
| | 241 mg/m ³ | 480 mg/m ³ | | | |
| 123-42-2 | 50 ppm | | | | |
| | 240 mg/m ³ | | | | |
| 108-65-6 | 50 ppm | 100 ppm | | | |
| | 275 mg/m ³ | 550 mg/m ³ | | | |
| | | 2 000 000 F/m3 | | | |
| | | fc/m³ | | | |
| 111-76-2 | 20 ppm | 40 ppm | | | |
| | 98 mg/m³ | 200 mg/m ³ | | | |
| 100-41-4 | 100 ppm | 200 ppm | | | |
| | 440 mg/m ³ | 880 mg/m³ | | | |
| 34590-94-8 | 50 ppm | 100 ppm | | | |
| | 307 mg/m ³ | 614 mg/m ³ | | | |

- Belgium (Royal decree of 11/05/2021):

| CAS | TWA: | STEL: | Ceiling: | Definition : | Criteria : |
|------------|-----------------------|-----------------------|----------|--------------|------------|
| 1330-20-7 | 50 ppm | 100 ppm | | D | |
| | 221 mg/m³ | 442 mg/m ³ | | | |
| 123-86-4 | 50 ppm | 150 ppm | | | |
| | 238 mg/m ³ | 712 mg/m ³ | | | |
| 123-42-2 | 50 ppm | | | | |
| | 241 mg/m ³ | | | | |
| 108-65-6 | 50 ppm | 100 ppm | | D | |
| | 275 mg/m ³ | 550 mg/m ³ | | | |
| 111-76-2 | 20 ppm | 50 ppm | | D | |
| | 98 mg/m³ | 246 mg/m ³ | | | |
| 100-41-4 | 20 ppm | 125 ppm | | D | |
| | 87 mg/m ³ | 551 mg/m ³ | | | |
| 34590-94-8 | 50 ppm | | | D | |
| | 308 mg/m ³ | | | | |

- France (INRS - Outils 65 / 2021-1849, 2021-1763, decree of 09/12/2021):

| CAS | VME-ppm: | VME-mg/m3: | VLE-ppm: | VLE-mg/m3: | Notes: | TMP No: |
|------------|----------|------------|----------|------------|--------|--------------|
| 1330-20-7 | 50 | 221 | 100 | 442 | * | 4 Bis. 84. * |
| 123-86-4 | 50 | 241 | 150 | 723 | - | 84 |
| 123-42-2 | 50 | 240 | - | - | - | 84 |
| 108-65-6 | 50 | 275 | 100 | 550 | - | - |
| 111-76-2 | 10 | 49 | 50 | 246 | * | 84 |
| 100-41-4 | 20 | 88.4 | 100 | 442 | * | 84 |
| 34590-94-8 | 50 | 308 | - | - | * | 84 |

⁻ Switzerland (Suva 2021):

| CAS | VME | VLE | Valeur plafond | Notations |
|------------|-----------------------|-----------------------|----------------|-----------|
| 1330-20-7 | 100 ppm | 200 ppm | | |
| | 435 mg/m ³ | 870 mg/m ³ | | |
| 64742-48-9 | 50 ppm | 100 ppm | | |
| | 300 mg/m ³ | 600 mg/m ³ | | |
| 123-86-4 | 50 ppm | 150 ppm | | |
| | 240 mg/m ³ | 720 mg/m ³ | | |
| 123-42-2 | 20 ppm | 40 ppm | | |
| | 96 mg/m ³ | 192 mg/m ³ | | |
| 108-65-6 | 50 ppm | 50 ppm | | |
| | 275 mg/m ³ | 275 mg/m ³ | | |
| 111-76-2 | 10 ppm | 20 ppm | | |
| | 49 mg/m ³ | 98 mg/m³ | | |
| 100-41-4 | 50 ppm | 50 ppm | | |
| | 220 mg/m ³ | 220 mg/m ³ | | |
| 34590-94-8 | 50 ppm | 50 ppm | | |
| | 300 mg/m ³ | 300 mg/m ³ | | |

- UK / WEL (Workplace exposure limits, EH40/2005, Fourth Edition 2020):

| CAS | TWA: | STEL: | Ceiling: | Definition : | Criteria: |
|------------|-----------------------|-----------------------|----------|--------------|-----------|
| 1330-20-7 | 50 ppm | 100 ppm | | Sk. BMGV | |
| | 220 mg/m ³ | 441 mg/m³ | | | |
| 123-86-4 | 150 ppm | 200 ppm | | | |
| | 724 mg/m ³ | 966 mg/m ³ | | | |
| 123-42-2 | 50 ppm | 75 ppm | | | |
| | 241 mg/m³ | 362 mg/m ³ | | | |
| 108-65-6 | 50 ppm | 100 ppm | | Sk | |
| | 274 mg/m ³ | 548 mg/m ³ | | | |
| 111-76-2 | 25 ppm | 50 ppm | | Sk. BMGV | |
| | 123 mg/m ³ | 246 mg/m ³ | | | |
| 100-41-4 | 100 ppm | 125 ppm | | Sk | |
| | 441 mg/m³ | 552 mg/m ³ | | | |
| 34590-94-8 | 50 ppm | | | Sk | |
| | 308 mg/m ³ | | | | |

- USA / OSHA PEL (Occupational Safety and Health Administration, Permissible Exposure Limits) :

| CAS | TWA: | STEL: | Ceiling : | Definition : | Criteria : |
|------------|-----------|-------|-----------|--------------|------------|
| 123-86-4 | 150 ppm | | | | |
| | 710 mg/m3 | | | | |
| 123-42-2 | 50 ppm | | | | |
| | 240 mg/m3 | | | | |
| 111-76-2 | 50 ppm | | | skin | |
| | 240 mg/m3 | | | | |
| 100-41-4 | 100 ppm | | | | |
| | 435 mg/m3 | | | | |
| 34590-94-8 | 100 ppm | | | skin | |
| | 600 mg/m3 | | | | |

- USA / AIHA WEEL (American Industrial Hygiene Association, Workplace Environmental Exposure Limit, 2010):

| CAS | TWA: | STEL: | Ceiling: | Definition : | Criteria : |
|----------|--------|-------|----------|--------------|------------|
| 108-65-6 | 50 ppm | | | | |

8.2. Exposure controls



Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE):









Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

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Before handling, wear safety goggles with protective sides accordance with standard EN166.

In the event of high danger, protect the face with a face shield.

Prescription glasses are not considered as protection.

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

Provide eyewash stations in facilities where the product is handled constantly.



- Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN ISO 374-1.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question: other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended:

N/A

| Penetration | > 480 min. |
|-------------|------------|
| time: | |
| Thickness: | N/A |

- Body protection

Avoid skin contact.

Wear suitable protective clothing.

Suitable type of protective clothing:

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605/A1 to prevent

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034/A1 to prevent skin contact. Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.



- Respiratory protection

Avoid inhaling vapors.

If the ventilation is insufficient, wear appropriate breathing apparatus.

When workers are confronted with concentrations that are above occupational exposure limits, they must wear a suitable, approved, respiratory protection device.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state

| Physical state : | Viscous liquid. |
|--|--------------------|
| Colour | |
| Colour: | N/A |
| Odour | |
| Odour threshold : | Not stated. |
| Odour: | Aromatic. |
| Freezing point | |
| Freezing point / Freezing range : | Not stated. |
| Boiling point or initial boiling point and boiling range | |
| Boiling point/boiling range : | 145 °C. |
| Flammability | |
| Flammability (solid, gas): | Not stated. |
| Lower and upper explosion limit | |
| Explosive properties, lower explosivity limit (%): | Not stated. |
| Explosive properties, upper explosivity limit (%): | Not stated. |
| Flash point | |
| Flash Point Interval : | 23°C <= FP <= 55°C |
| Auto-ignition temperature | |
| Self-ignition temperature : | 200 °C. |
| Decomposition temperature | |
| Decomposition point/decomposition range : | Not relevant. |
| рН | |
| pH: | Not relevant. |
| pH (aqueous solution): | Not stated. |
| Kinematic viscosity | |
| Viscosity: | Not stated. |

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|--|--|
| GRAVOLAQUE - GRAV010 | |
| Kinematic viscosity: | 587 cSt (20°C). |
| Solubility | |
| Water solubility: | Insoluble. |
| Fat solubility : | Not stated. |
| Partition coefficient n-octanol/water (log value) | |
| Partition coefficient: n-octanol/water : | Not stated. |
| Vapour pressure | |
| Vapour pressure (50°C): | Below 110 kPa (1.10 bar). |
| Density and/or relative density | |
| Density: | 0.95 - 1.15 |
| Relative vapour density | |
| Vapour density : | Not stated. |
| 9.2. Other information | |
| VOC (g/l): | 483 |
| % VOC : | 46 |
| | |

9.2.1. Information with regard to physical hazard classes

No data available.

9.2.2. Other safety characteristics

No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

10.4. Conditions to avoid

Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises.

Avoid:

- accumulation of electrostatic charges.
- heating
- heat
- flames and hot surfaces
- exposure to light

10.5. Incompatible materials

Keep away from :

- strong acids
- strong bases
- oxidising material
- alkalis

10.6. Hazardous decomposition products

The thermal decomposition may release/form:

- carbon monoxide (CO)
- carbon dioxide (CO2)

SECTION 11: TOXICOLOGICAL INFORMATION



11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Exposure to vapours from solvents in the mixture 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 produced will include headaches, numbness, dizziness, fatigue, muscular asthenia and, in extreme cases, loss of consciousness. May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.

Repeated or prolonged contact with the mixture may cause removal of natural oil from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days.

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Splashes in the eyes may cause irritation and reversible damage

Narcotic effects may occur, such as drowsiness, narcosis, decreased alertness, loss of reflexes, lack of coordination or dizziness.

Effects may also occur in the form of violent headaches or nausea, judgement disorder, giddiness, irritability, fatigue or memory disturbance.

Causes severe damage to organs in the event of repeated or prolonged exposure.

May cause severe damage to organs in the event of repeated or prolonged exposure.

11.1.1. Substances



Acute toxicity:

DIPROPYLENE GLYCOL MONOMETHYL ETHER (CAS: 34590-94-8)

Oral route: LD50 > 5000 mg/kg

Species: Rat

Dermal route: LD50 = 9510 mg/kg bodyweight/day

Species: Rabbit

Inhalation route (Vapours): LC50 >= 20 mg/l

Duration of exposure: 4 h

ETHYLBENZENE (CAS: 100-41-4)

Oral route : LD50 = 3500 mg/kg bodyweight/day

Species: Rat

Dermal route: LD50 = 15354 mg/kg bodyweight/day

Species: Rabbit

Inhalation route (Vapours) : LC50 = 17.2 mg/l

Species: Rat

Duration of exposure: 4 h

2-BUTOXYETHANOL (CAS: 111-76-2)

Oral route: LD50 = 1200 mg/kg bodyweight/day

Species: Rat

Dermal route : LD50 = 3000 mg/kg bodyweight/day

Species : Rabbit

Inhalation route (Vapours): 10 < LC50 <= 20 mg/l

Duration of exposure: 4 h

2-METHOXY-1-METHYLETHYL ACETATE (CAS: 108-65-6)

Oral route: LD50 = 8532 mg/kg bodyweight/day

Species : Rat

Dermal route : LD50 = 5100 mg/kg bodyweight/day

Species: Rat

Inhalation route (Vapours): LC50 = 30 mg/l

Species : Rat

Duration of exposure: 4 h

HYDROCARBONS, C9, AROMATICS (CAS: 128601-23-0)

Oral route: LD50 = 3492 mg/kg bodyweight/day

Species : Rat

Dermal route: LD50 = 3160 mg/kg bodyweight/day

Species : Rabbit

Inhalation route (Dusts/mist): LC50 = 6193 mg/l

Species : Rat

Duration of exposure: 4 h

4-HYDROXY-4-METHYLPENTAN-2-ONE (CAS: 123-42-2)

Oral route: LD50 = 4000 mg/kg bodyweight/day

Species : Rat

Species : Rabbit

Inhalation route (Vapours): LC50 >= 20 mg/l

Duration of exposure: 4 h

LD50 = 13630 mg/kg bodyweight/day

N-BUTYL ACETATE (CAS: 123-86-4)

Dermal route:

Oral route: LD50 = 12789 mg/kg bodyweight/day

Species: Rat

Dermal route: LD50 = 14112 mg/kg bodyweight/day

Species: Rabbit

Inhalation route (Dusts/mist): LC50 = 23.4 mg/l

Species : Rat

Duration of exposure: 4 h

NAPHTHA (PETROLEUM), HYDROTREATED HEAVY (CAS: 64742-48-9)

Oral route : LD50 = 15000 mg/kg bodyweight/day

Species: Rat

Dermal route: LD50 = 3160 mg/kg bodyweight/day

Species: Rabbit

Inhalation route (Vapours): LC50 >= 20 mg/l

Duration of exposure: 4 h

XYLENE (CAS: 1330-20-7)

Oral route: LD50 = 2100 mg/kg bodyweight/day

Species: Rat

Dermal route : LD50 = 1100 mg/kg bodyweight/day

Species: Rat

Inhalation route (Vapours): LC50 = 11 mg/l

Duration of exposure: 4 h

HYDROCARBONS, C9-C12, N-ALKANES, ISOALKANES, CYCLICS, AROMATICS (2-25%) (CAS: 64742-82-1)

Oral route : 2000 < LD50 <= 5000 mg/kg

Dermal route : 2,000 < LD50 <= 5000 mg/kg

Inhalation route (Vapours): LC50 >= 20 mg/l

Duration of exposure: 4 h

11.1.2. Mixture

Acute toxicity :

Oral route: No observed effect.

2,000 < LD50 <= 5000 mg/kg

Dermal route : No observed effect.

LD50 = 10103.07 mg/kg

Inhalation route (Vapours): No effect.

Duration of exposure : 4 h LC50 = 101.03 mg/l

11.2. Information on other hazards

Monograph(s) from the IARC (International Agency for Research on Cancer):

CAS 100-41-4: IARC Group 2B: The agent is possibly carcinogenic to humans.

CAS 111-76-2: IARC Group 3: The agent is not classifiable as to its carcinogenicity to humans. CAS 1330-20-7: IARC Group 3: The agent is not classifiable as to its carcinogenicity to humans.



SECTION 12 : ECOLOGICAL INFORMATION

Harmful to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

12.1. Toxicity



12.1.1. Substances

N-BUTYL ACETATE (CAS: 123-86-4)

NOEC = 23.2 mg/l Crustacean toxicity:

Species: Daphnia magna

ECr50 = 675 mg/l Algae toxicity:

Species: Scenedesmus subspicatus

Duration of exposure: 72 h

DIPROPYLENE GLYCOL MONOMETHYL ETHER (CAS: 34590-94-8) LC50 = 10000 mg/lFish toxicity:

> Species: Pimephales promelas Duration of exposure: 96 h

Crustacean toxicity: EC50 = 1919 mg/l

> Species: Daphnia magna Duration of exposure: 48 h

ETHYLBENZENE (CAS: 100-41-4)

Fish toxicity: LC50 = 42.3 mg/l

> Species: Pimephales promelas Duration of exposure: 96 h

Crustacean toxicity: EC50 = 75 mg/l

> Species: Daphnia magna Duration of exposure: 48 h

NOEC = 0.96 mg/l

Species: Ceriodaphnia dubia

Algae toxicity: ECr50 = 63 mg/l

> Species: Chlorella vulgaris Duration of exposure: 72 h

2-BUTOXYETHANOL (CAS: 111-76-2)

Fish toxicity: LC50 = 1490 mg/l

> Species: Lepomis macrochirus Duration of exposure: 96 h

NOEC = 100 mg/l Species: Danio rerio

Crustacean toxicity: EC50 = 1815 mg/l

> Species: Daphnia magna Duration of exposure: 48 h

NOEC = 100 mg/l

Species: Daphnia magna

ECr50 = 911 mg/l Algae toxicity:

Species: Pseudokirchnerella subcapitata

Duration of exposure: 72 h

2-METHOXY-1-METHYLETHYL ACETATE (CAS: 108-65-6)

LC50 = 161 mg/l Fish toxicity:

Species: Pimephales promelas Duration of exposure: 96 h

NOEC = 47.5 mg/l Species : Oryzias latipes

Crustacean toxicity: EC50 = 481 mg/l

Species : Daphnia sp.
Duration of exposure : 48 h

NOEC = 100 mg/l Species : Daphnia magna

HYDROCARBONS, C9, AROMATICS (CAS: 128601-23-0)

Fish toxicity: 1 < LC50 <= 10 mg/l

Duration of exposure : 96 h

Crustacean toxicity: 1 < EC50 <= 10 mg/l

Duration of exposure: 48 h

Algae toxicity: 1 < ECr50 <= 10 mg/l

Duration of exposure: 72 h

4-HYDROXY-4-METHYLPENTAN-2-ONE (CAS: 123-42-2)

Fish toxicity: LC50 = 420 mg/l

Species : Lepomis macrochirus Duration of exposure : 96 h

Crustacean toxicity: EC50 = 9016 mg/l

Species : Daphnia magna Duration of exposure : 24 h

NOEC = 100 mg/l Species : Daphnia magna

Algae toxicity: ECr50 = 530 mg/l

Species : Microcystis aeruginosa Duration of exposure : 72 h

NAPHTHA (PETROLEUM), HYDROTREATED HEAVY (CAS: 64742-48-9)

Fish toxicity: LC50 = 2200 mg/l

Species : Pimephales promelas Duration of exposure : 96 h

Crustacean toxicity: EC50 = 1000 mg/l

Species : Daphnia magna Duration of exposure : 96 h

XYLENE (CAS: 1330-20-7)

Fish toxicity: 10 < LC50 <= 100 mg/l

Species : Oncorhynchus mykiss Duration of exposure : 96 h

NOEC = 1.3 mg/l

Species: Oncorhynchus mykiss

Crustacean toxicity: 10 < EC50 <= 100 mg/l

Species : Ceriodaphnia dubia Duration of exposure : 48 h

NOEC = 1.17 mg/l

Algae toxicity: 10 < ECr50 <= 100 mg/l

Species : Skeletonema costatum Duration of exposure : 72 h

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HYDROCARBONS, C9-C12, N-ALKANES, ISOALKANES, CYCLICS, AROMATICS (2-25%) (CAS: 64742-82-1)

Fish toxicity: 1 < LC50 <= 10 mg/l

Duration of exposure: 96 h

Crustacean toxicity: 1 < EC50 <= 10 mg/l

Algae toxicity: 1 < ECr50 <= 10 mg/l

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

(12)

12.2.1. Substances

ETHYLBENZENE (CAS: 100-41-4)

Biodegradability: Rapidly degradable.

DBO5/DCO = 0.9

2-METHOXY-1-METHYLETHYL ACETATE (CAS: 108-65-6)

Biodegradability: Rapidly degradable.

DBO5/DCO = 1

HYDROCARBONS, C9, AROMATICS (CAS: 128601-23-0)

Biodegradability: no degradability data is available, the substance is considered as not

degrading quickly.

4-HYDROXY-4-METHYLPENTAN-2-ONE (CAS: 123-42-2)

Biodegradability: Rapidly degradable.

DBO5/DCO = 0.9

N-BUTYL ACETATE (CAS: 123-86-4)

Biodegradability: Rapidly degradable.

DBO5/DCO = 0.84

NAPHTHA (PETROLEUM), HYDROTREATED HEAVY (CAS: 64742-48-9)

Biodegradability: Rapidly degradable.

DBO5/DCO = 0.899

XYLENE (CAS: 1330-20-7)

Biodegradability: no degradability data is available, the substance is considered as not

degrading quickly.

HYDROCARBONS, C9-C12, N-ALKANES, ISOALKANES, CYCLICS, AROMATICS (2-25%) (CAS: 64742-82-1)

Biodegradability: no degradability data is available, the substance is considered as not

degrading quickly.

DIPROPYLENE GLYCOL MONOMETHYL ETHER (CAS: 34590-94-8)

Chemical oxygen demand : DCO = 0 g/g

Biodegradability: Rapidly degradable.

DBO5/DCO = 0.73

2-BUTOXYETHANOL (CAS: 111-76-2)

Chemical oxygen demand : DCO = 2.2 g/g

Five-day biochemical oxygen demand : DBO5 = 0.71 g/g

Biodegradability: Non-rapidly degradable.

DBO5/DCO = 0.32

12.3. Bioaccumulative potential



12.3.1. Substances

DIPROPYLENE GLYCOL MONOMETHYL ETHER (CAS: 34590-94-8)
Octanol/water partition coefficient: log Koe = -0.06

Bioaccumulation: BCF = 1

ETHYLBENZENE (CAS: 100-41-4)

Octanol/water partition coefficient : log Koe = 3.15

Bioaccumulation: BCF = 1

2-BUTOXYETHANOL (CAS: 111-76-2)

Octanol/water partition coefficient : log Koe = 0.83

Bioaccumulation: BCF = 3

2-METHOXY-1-METHYLETHYL ACETATE (CAS: 108-65-6)

Octanol/water partition coefficient : log Koe = 0.43

Bioaccumulation : BCF = 1

4-HYDROXY-4-METHYLPENTAN-2-ONE (CAS: 123-42-2)

Octanol/water partition coefficient : log Koe = -0.34

Bioaccumulation: BCF = 0.5

N-BUTYL ACETATE (CAS: 123-86-4)

Octanol/water partition coefficient : log Koe = 1.78

Bioaccumulation: BCF = 4

XYLENE (CAS: 1330-20-7)

Octanol/water partition coefficient : log Koe = 2.77

Bioaccumulation: BCF = 9

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Endocrine disrupting properties

No data available.

12.7. Other adverse effects

No data available.



German regulations concerning the classification of hazards for water (WGK, AwSV Annex I, KBws):

WGK 2: Hazardous for water.

SECTION 13: DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste:

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging:

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

Codes of wastes (Decision 2014/955/EC, Directive 2008/98/EEC on hazardous waste):

08 01 11 * waste paint and varnish containing organic solvents or other dangerous substances

SECTION 14: TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2023 - IMDG 2020 [40-20] - ICAO/IATA 2023 [64]).

14.1. UN number or ID number

1263

14.2. UN proper shipping name

UN1263=PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound)

14.3. Transport hazard class(es)

- Classification :



3

14.4. Packing group

111



14.5. Environmental hazards

14.6. Special precautions for user

| ADR/RID | Class | Code | Pack gr. | Label | Ident. | LQ | Provis. | EQ | Cat. | Tunnel |
|---------|-------|------|----------|-------|--------|-----|---------|----|------|--------|
| | 3 | F1 | III | 3 | 30 | 5 L | 163 367 | E1 | 3 | D/E |
| | | | | | | | 650 | | | |

*If Q <450I, see 2.2.3.1.5.1.

| IMDG | Class | 2°Label | Pack gr. | LQ | EMS | Provis. | EQ | Stowage | Segregati |
|------|-------|---------|----------|-----|----------|---------|----|----------|-----------|
| | | | | | | | | Handling | on |
| | 3 | - | III | 5 L | F-E. S-E | 163 223 | E1 | Category | - |
| | | | | | | 367 955 | | Α | |

*if Q < 450 I see IMDG 2.3.2.5.

| IATA | Class | 2°Label | Pack gr. | Passager | Passager | Cargo | Cargo | note | EQ |
|------|-------|---------|----------|----------|----------|-------|-------|--------|----|
| | 3 | - | III | 355 | 60 L | 366 | 220 L | A3 A72 | E1 |
| | | | | | | | | A192 | |
| | 3 | - | III | Y344 | 10 L | - | - | A3 A72 | E1 |
| | | | | | | | | A192 | |

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15: Regulatory information

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

Classification and labelling information included in section 2:

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2022/692 (ATP 18)

Container information:

No data available.



Restrictions applied under Title VIII of Regulation (EC) No. 1907/2006 (REACH):

The mixture does not contain any substance restricted under Annex XVII of Regulation (EC) No. 1907/2006 (REACH): https://echa.europa.eu/substances-restricted-under-reach.

Explosives precursors

The mixture does not contain any substance subject to Regulation (EU) 2019/1148 on the marketing and use of explosives precursors.

$Labelling \ for \ VOCs \ present \ in \ varnishes, \ paints \ and \ in \ vehicle \ refinishing \ products \ (2004/42/EC):$

The permitted European level of VOC in this ready-to-use product is limited to 569 g/l.

The permitted European level of VOC in the ready-to-use product (category IIAi) is 600 g/l maximum (2007).

Particular provisions :

No data available.



German regulations concerning the classification of hazards for water (WGK, AwSV Annex I, KBws):

WGK 2: Hazardous for water.

Swiss ordinance on the incentive tax on volatile organic compounds :

108-65-6 acétate de 1-méthoxy-2-propyle

123-86-4 acétate de n-butyle

123-42-2 4-hydroxy-4-méthylpentane-2-one(diacétone-alcool)

111-76-2 2-n-butoxyéthanol 100-41-4 éthylbenzène

34590-94-8 2-(3-méthoxypropoxy)propane-1-ol xylènes (mélanges d'isomères)

15.2. Chemical safety assessment

No data available.

SECTION 16: OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.



Wording of the phrases mentioned in section 3:

| H225 | Highly flammable liquid and vapour. |
|--------|---|
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H372 | Causes damage to organs through prolonged or repeated exposure . |
| H373 | May cause damage to organs through prolonged or repeated exposure . |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |
| | |



Abbreviations and acronyms:

LD50: The dose of a test substance resulting in 50% lethality in a given time period.

LC50 : The concentration of a test substance resulting in 50% lethality in a given period.

EC50: The effective concentration of substance that causes 50% of the maximum response.

 ${\tt ECr50: The\ effective\ concentration\ of\ substance\ that\ causes\ 50\%\ reduction\ in\ growth\ rate.}$

NOEC: The concentration with no observed effect.

REACH: Registration, Evaluation, Authorization and Restriction of Chemical Substances.

ATE: Acute Toxicity Estimate

BW: Body Weight

STEL: Short-term exposure limit
TWA: Time Weighted Averages
TMP: French Occupational Illness table
TLV: Threshold Limit Value (exposure)
AEV: Average Exposure Value.

ADR: European agreement concerning the international carriage of dangerous goods by Road.

IMDG: International Maritime Dangerous Goods. IATA: International Air Transport Association. ICAO: International Civil Aviation Organisation

RID: Regulations concerning the International carriage of Dangerous goods by rail.

WGK: Wassergefahrdungsklasse (Water Hazard Class).

GHS02 : Flame

GHS07 : Exclamation mark GHS08 : Health hazard

PBT: Persistent, bioaccumulable and toxic. vPvB: Very persistent, very bioaccumulable.

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SVHC : Substances of very high concern.