

Safety Data Sheet

UNIPRIMER SPRAY

Safety Data Sheet dated 15/5/2015, version 2

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

1.1. Product identifier

Mixture identification:

Trade name: UNIPRIMER SPRAY

Trade code: 2001

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

Recommended use:

Special varnish for plastic

Uses advised against:

Not suitable for use in homemaker (DIY) applications.

1.3. Details of the supplier of the safety data sheet

Supplier:

IMPA Spa - Via Crevada 9/E - 31020 SAN PIETRO DI FELETTO (TV) - ITALY

Competent person responsible for the safety data sheet:

msdsref@impa.it

1.4. Emergency telephone number


IMPA Spa - Phone ++39-0438-4548 - Fax ++39-0438-454915 (8.30 - 17.30)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Directive criteria, 67/548/EEC, 1999/45/EC and following amendments thereof:

Properties / Symbols:

 F+ Extremely flammable

 Xi Irritant

R Phrases:


R12 Extremely flammable.

R36 Irritating to eyes.


R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

EC regulation criteria 1272/2008 (CLP):

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

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

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

EUH066 Repeated exposure may cause skin dryness or cracking.

2.2. Label elements

Symbols:



Danger

Hazard statements:

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

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary statements:

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 fume/gas/mist/vapours/spray.

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

P312 Call a POISON CENTER/ doctor if you feel unwell.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Special Provisions:

EUH066 Repeated exposure may cause skin dryness or cracking.

Contains:

acetone

2.3. Other hazards

No other known hazard

vPvB Substances: None - PBT Substances: None

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of EEC directive 67/548 and CLP regulation and related classification:

>= 30% - < 40% dimethyl ether

REACH No.: 01-2119472128-37, Index number: 603-019-00-8, CAS: 115-10-6, EC: 204-065-8

F+; R12; substance with a Union workplace exposure limit

⚠ 2.2/1 Flam. Gas 1 H220

⚠ 2.5 Press. Gas H280

>= 20% - < 25% acetone

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

F,Xi; R11-36-66-67

⚠ 2.6/2 Flam. Liq. 2 H225

⚠ 3.3/2 Eye Irrit. 2 H319

⚠ 3.8/3 STOT SE 3 H336

EUH066

>= 5% - < 7% n-butyl acetate

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

R10-66-67

⚠ 2.6/3 Flam. Liq. 3 H226

⚠ 3.8/3 STOT SE 3 H336

EUH066

>= 3% - < 5% butanone

REACH No.: 01-2119457290-43, Index number: 606-002-00-3, CAS: 78-93-3, EC: 201-159-0

F,Xi; R11-36-66-67

⚠ 2.6/2 Flam. Liq. 2 H225

⚠ 3.3/2 Eye Irrit. 2 H319

⚠ 3.8/3 STOT SE 3 H336

EUH066

>= 3% - < 5% Aromatic hydrocarbons, C8

REACH No.: 01-2119486136-34, CAS: 90989-38-1, EC: 292-694-9

Xn,Xi; R10-20/21-65-48/20-36/37/38

⚠ 2.6/3 Flam. Liq. 3 H226

⚠ 3.1/4/Dermal Acute Tox. 4 H312

⚠ 3.1/4/Inhal Acute Tox. 4 H332

⚠ 3.10/1 Asp. Tox. 1 H304

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.3/2 Eye Irrit. 2 H319

⚠ 3.8/3 STOT SE 3 H335

⚠ 3.9/2 STOT RE 2 H373

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DECLJ*

>= 1% - < 3% 2-methylpropan-1-ol

REACH No.: 01-2119484609-23, Index number: 603-108-00-1, CAS: 78-83-1, EC: 201-148-0 Xi; R10-37/38-41-67

⚠ 2.6/3 Flam. Liq. 3 H226

⚠ 3.8/3 STOT SE 3 H335

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.3/1 Eye Dam. 1 H318

⚠ 3.8/3 STOT SE 3 H336

>= 1% - < 3% 2-methoxy-1-methylethyl acetate

REACH No.: 01-2119475791-29, Index number: 607-195-00-7, CAS: 108-65-6, EC: 203-603-9 R10; substance with a Union workplace exposure limit

⚠ 2.6/3 Flam. Liq. 3 H226

>= 1% - < 3% cyclohexanone

Index number: 606-010-00-7, CAS: 108-94-1, EC: 203-631-1 Xn; R10-20

⚠ 2.6/3 Flam. Liq. 3 H226

⚠ 3.1/4/Inhal Acute Tox. 4 H332

>= 0.1% - < 0.5% Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

REACH No.: 01-2119475515-33, EC: 927-510-4

F,Xn,Xi,N; R11-38-65-67-51/53

⚠ 2.6/2 Flam. Liq. 2 H225

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.10/1 Asp. Tox. 1 H304

⚠ 3.8/3 STOT SE 3 H336

⚠ 4.1/C2 Aquatic Chronic 2 H411

DECLP*

>= 0.1% - < 0.5% Hydrocarbons, C9, aromatics

REACH No.: 01-2119455851-35, EC: 918-668-5

Xn,Xi,N; R10-37-51/53-65-66-67

⚠ 2.6/3 Flam. Liq. 3 H226

⚠ 3.10/1 Asp. Tox. 1 H304

⚠ 3.8/3 STOT SE 3 H335

⚠ 3.8/3 STOT SE 3 H336

⚠ 4.1/C2 Aquatic Chronic 2 H411

EUH066

DECLP*

< 0.1% methyl methacrylate

REACH No.: 01-2119452498-28, Index number: 607-035-00-6, CAS: 80-62-6, EC: 201-297-1

F,Xi; R11-37/38-43

⚠ 2.6/2 Flam. Liq. 2 H225

⚠ 3.8/3 STOT SE 3 H335

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.4.2/1-1A-1B Skin Sens. 1,1A,1B H317

< 0.1% chlorobenzene

Index number: 602-033-00-1, CAS: 108-90-7, EC: 203-628-5

Xn,N; R10-20-51/53

⚠ 2.6/3 Flam. Liq. 3 H226

⚠ 4.1/C2 Aquatic Chronic 2 H411

⚠ 3.1/4/Inhal Acute Tox. 4 H332

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< 0.1% methanol

REACH No.: 01-2119433307-44, Index number: 603-001-00-X, CAS: 67-56-1, EC: 200-659-6
F,T; R11-23/24/25-39/23/24/25

- ⚠ 2.6/2 Flam. Liq. 2 H225
- ⚠ 3.8/1 STOT SE 1 H370
- ⚠ 3.1/3/Oral Acute Tox. 3 H301
- ⚠ 3.1/3/Dermal Acute Tox. 3 H311
- ⚠ 3.1/3/Inhal Acute Tox. 3 H331

< 0.1% 2-butoxyethanol

REACH No.: 01-2119475108-36, Index number: 603-014-00-0, CAS: 111-76-2, EC: 203-905-0
Xn,Xi; R20/21/22-36/38

- ⚠ 3.3/2 Eye Irrit. 2 H319
- ⚠ 3.2/2 Skin Irrit. 2 H315
- ⚠ 3.1/4/Oral Acute Tox. 4 H302
- ⚠ 3.1/4/Dermal Acute Tox. 4 H312
- ⚠ 3.1/4/Inhal Acute Tox. 4 H332

*DECLJ: Substance classified accordingly to Note J of the Annex I of directive 67/548/EEC. The classification as a carcinogen need not apply if it can be shown that the substance contains less than 0.1% weight/weight of benzene

*DECLP: Substance classified accordingly to Note P of the Annex I of directive 67/548/EEC. The classification as a carcinogen need not apply if it can be shown that the substance contains less than 0.1% weight/weight of benzene

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Remove contaminated clothing immediately and dispose off safely.

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

In case of eyes contact:

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

Protect uninjured eye.

In case of Ingestion:

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

In case of Inhalation:

Ventilate the premises. The patient is to be removed immediately from the premises contaminated and made to rest in a well ventilated area. Should the patient feel unwell, consult a physician.

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

None known

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

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

CO₂, powder extinguisher, foam, water spray.

Extinguishing media which must not be used for safety reasons:

Water jet.

5.2. Special hazards arising from the substance or mixture

Burning produces heavy smoke.

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Do not inhale explosion and/or combustion gases (carbon monoxide, carbon dioxide, oxides of nitrogen).

5.3. Advice for firefighters

Use suitable breathing apparatus .

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

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition.

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Suitable material for collection: inert absorbent material (e.g. sand, vermiculite)

After the product has been recovered, rinse the area and materials involved.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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

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

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

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

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

Avoid accumulating electrostatic charge.

Keep away from food, drink and feed.

Possible gas microleaks will go down and, if mixed with air and in presence of primers, may become deflagrating.

See chapter 10.5

Instructions as regards storage premises:

Keep container tightly closed in a cool, well-ventilated place, away from heat.

7.3. Specific end use(s)

See chapter 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

dimethyl ether - CAS: 115-10-6

EU - LTE(8h): 1920 mg/m³, 1000 ppm - Notes: Bold-type: Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)

WEL -- Country: UNITED KINGDOM - LTE: 766 mg/m³, 400 ppm - STE: 958 mg/m³, 500 ppm

acetone - CAS: 67-64-1

WEL -- Country: UNITED KINGDOM - LTE: 1210 mg/m³, 500 ppm - STE: 3620 mg/m³,

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1500 ppm

EU - LTE(8h): 1210 mg/m³, 500 ppm - Notes: Bold-type: Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)

ACGIH, 500 ppm, 750 ppm - Notes: (A4), BEI - (URT and eye irr, CNS impair, hematologic eff)

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

ACGIH, 150 ppm, 200 ppm - Notes: Eye and URT irr

WEL -- Country: UNITED KINGDOM - LTE: 724 mg/m³, 150 ppm - STE: 966 mg/m³, 200 ppm

butanone - CAS: 78-93-3

WEL -- Country: UNITED KINGDOM - LTE: 600 mg/m³, 200 ppm - STE: 899 mg/m³, 300 ppm

EU - LTE(8h): 600 mg/m³, 200 ppm - STE: 900 mg/m³, 300 ppm - Notes: Bold-type: Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)

ACGIH, 200 ppm, 300 ppm - Notes: BEI - URT irr, CNS and PNS impair

Aromatic hydrocarbons, C8 - CAS: 90989-38-1

ACGIH - LTE: 434 mg/m³, 100 ppm - STE: 651 mg/m³, 150 ppm

2-methylpropan-1-ol - CAS: 78-83-1

ACGIH, 50 ppm - Notes: Skin and eye irr

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

EU - LTE(8h): 275 mg/m³, 50 ppm - STE: 550 mg/m³, 100 ppm - Notes: Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)

WEL -- Country: UNITED KINGDOM - LTE: 274 mg/m³, 50 ppm - STE: 548 mg/m³, 100 ppm

cyclohexanone - CAS: 108-94-1

EU - LTE(8h): 40,8 mg/m³, 10 ppm - STE: 81,6 mg/m³, 20 ppm - Notes: Bold-type: Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)

ACGIH, 20 ppm, 50 ppm - Notes: Skin, A3 - Eye and URT irr

Hydrocarbons, C9, aromatics

ACGIH - LTE: 100 mg/m³

methyl methacrylate - CAS: 80-62-6

WEL -- Country: UNITED KINGDOM - LTE: 208 mg/m³, 50 ppm - STE: 416 mg/m³, 100 ppm

EU, 50 ppm, 100 ppm - Notes: 15 minutes average value (for references see bibliography)

ACGIH, 50 ppm, 100 ppm - Notes: (SEN), A4 - URT and eye irr, body weight eff, pulm edema

chlorobenzene - CAS: 108-90-7

WEL -- Country: UNITED KINGDOM, 1 ppm, 3 ppm

EU - LTE(8h): 23 mg/m³, 5 ppm - STE: 70 mg/m³, 15 ppm - Notes: Bold-type: Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)

ACGIH, 10 ppm - Notes: A3, BEI - Liver dam

methanol - CAS: 67-56-1

WEL -- Country: UNITED KINGDOM - LTE: 266 mg/m³, 200 ppm - STE: 333 mg/m³, 250 ppm

EU - LTE(8h): 260 mg/m³, 200 ppm - Notes: Bold-type: Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)

ACGIH, 200 ppm, 250 ppm - Notes: Skin BEI - Headache, eye dam, dizziness, nausea

2-butoxyethanol - CAS: 111-76-2

WEL -- Country: UNITED KINGDOM - LTE: 123 mg/m³, 25 ppm - STE: 246 mg/m³, 50 ppm

EU - LTE(8h): 98 mg/m³, 20 ppm - STE: 246 mg/m³, 50 ppm - Notes: Bold-type:

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Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)

ACGIH, 20 ppm - Notes: A3, BEI - Eye and URT irr

DNEL Exposure Limit Values

Aromatic hydrocarbons, C8 - CAS: 90989-38-1

Worker Professional: 0.077 mg/l - Consumer: 0.0148 mg/l - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 180 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 1.6 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Hydrocarbons, C9, aromatics

Worker Professional: 25 mg/l - Consumer: 11 mg/kg - Exposure: Human Dermal -

Frequency: Long Term, systemic effects

Worker Professional: 0.150 mg/l - Consumer: 0.032 mg/l - Exposure: Human Inhalation -

Frequency: Long Term, systemic effects

Consumer: 11 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

Aromatic hydrocarbons, C8 - CAS: 90989-38-1

Target: Marine water - Value: 0.327 mg/l

Target: Fresh Water - Value: 0.327 mg/l

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

Target: Fresh Water - Value: 12.46 mg/kg

Target: Soil (agricultural) - Value: 2.31 mg/kg

8.2. Exposure controls

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Skin protection:

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

Hands protection:

Use protective gloves that provides comprehensive protection, e.g. NBR (nitrile rubber), FKM (fluoro rubber).

The selection of suitable gloves does not only depend on the material, but also on other quality characteristics and varies from manufacturer to another one, and on the manner and times of use of the mixture.

Respiratory protection:

Combination filtering device (DIN EN 141).

Environmental exposure controls:

See chapter 6.2

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance and colour: liquid under pression

Odour: of solvent

Odour threshold: nd

pH: nd

Melting point / freezing point: nd

Initial boiling point and boiling range: < 35 °C

Solid/gas flammability: nd

Upper/lower flammability or explosive limits: nd

Vapour density: nd

Flash point: < -1 °C

Evaporation rate: nd

Vapour pressure: nd

Relative density: 0.77 ± 0.01

Solubility in water: not soluble

Solubility in oil: nd

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Partition coefficient (n-octanol/water):	nd
Auto-ignition temperature:	nd
Decomposition temperature:	nd
Viscosity:	nd
Explosive properties:	none
Oxidizing properties:	none
9.2. Other information	
Miscibility:	nd
Conductivity:	nd

Legend:
na = not applicable - nd = not available

SECTION 10: Stability and reactivity

- 10.1. Reactivity
Stable under normal conditions
- 10.2. Chemical stability
Stable under normal conditions
- 10.3. Possibility of hazardous reactions
Because of heat or fire the preparation can release carbon oxides and vapours which may be harmful to health.
- 10.4. Conditions to avoid
Avoid to keep near heat sources.
- 10.5. Incompatible materials
Avoid contact with oxidizing materials or powerful oxidising agents. The product could catch fire.
See chapter 10.3
- 10.6. Hazardous decomposition products
No hazardous decomposition products when stored and handled correctly.
See chapter 5.2

SECTION 11: Toxicological information

- 11.1. Information on toxicological effects
Toxicological information of the main substances found in the mixture:
 - acetone - CAS: 67-64-1
 - a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat 5800 mg/kg
 - n-butyl acetate - CAS: 123-86-4
 - a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 10000 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit > 14000 mg/kg
Test: LC50 - Route: Inhalation Vapour - Species: Rat 21.1 mg/l - Duration: 4h
 - butanone - CAS: 78-93-3
 - a) acute toxicity:
Test: LD50 - Route: Skin - Species: Rabbit 6480 mg/kg
Test: LC50 - Route: Inhalation Vapour - Species: Rat > 20 mg/l - Duration: 4h
Test: LD50 - Route: Oral - Species: Rat 2740 mg/kg
 - Aromatic hydrocarbons, C8 - CAS: 90989-38-1
 - a) acute toxicity:
Test: LC50 - Route: Inhalation Vapour - Species: Rat 27124 mg/m³ - Duration: 4h
Test: LD50 - Route: Oral - Species: Rat 3223 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit 12126 mg/kg
 - 2-methylpropan-1-ol - CAS: 78-83-1
 - a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat 2460 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit 2460 mg/kg
Test: LC50 - Route: Inhalation Vapour - Species: Rat 19.2 mg/l - Duration: 4h
 - 2-methoxy-1-methylethyl acetate - CAS: 108-65-6
 - a) acute toxicity:

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- Test: LD50 - Route: Oral - Species: Rat 8530 mg/kg
Test: LD50 - Route: Skin - Species: Rat > 5000 mg/kg
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
a) acute toxicity:
Test: LC50 - Route: Inhalation Vapour - Species: Rat > 23.3 mg/l - Duration: 4h
Hydrocarbons, C9, aromatics
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat 3592 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit > 3160 mg/kg
Test: LC50 - Route: Inhalation Vapour - Species: Rat > 6193 mg/m3 - Duration: 4h
methanol - CAS: 67-56-1
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat 5630 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit 15800 mg/kg
Test: LC50 - Route: Inhalation Vapour - Species: Rat 83.9 mg/l - Duration: 4h
2-butoxyethanol - CAS: 111-76-2
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat 470 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit 220 mg/kg
Test: LC50 - Route: Inhalation Vapour - Species: Rat 2.17 mg/l - Duration: 4h

If not differently specified, the information required in Regulation 453/2010/EC listed below must be considered as N.A.:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

SECTION 12: Ecological information

Adopt sound working practices, so that the product is not released into the environment.
The product does not contain substances which can be harmful to the ozone.

12.1. Toxicity

Ecotoxicological studies of the product are not available.

Aromatic hydrocarbons, C8 - CAS: 90989-38-1

a) Aquatic acute toxicity:

Endpoint: IC50 - Species: Algae 2.2 mg/l - Duration h: 72

Endpoint: EC50 - Species: Daphnia 1.0 mg/l - Duration h: 24

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

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia 3 mg/l - Duration h: 48

Hydrocarbons, C9, aromatics

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia 3.2 mg/l - Duration h: 48

Endpoint: IC50 - Species: Algae 2.9 mg/l - Duration h: 72

Endpoint: LC50 - Species: Fish 9.2 mg/l - Duration h: 96

12.2. Persistence and degradability

N.A.

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

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- N.A.
- 12.5. Results of PBT and vPvB assessment
vPvB Substances: None - PBT Substances: None
- 12.6. Other adverse effects
None

SECTION 13: Disposal considerations

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

SECTION 14: Transport information

- 14.1. UN number
ADR-UN number: 1950
IATA-Un number: 1950
IMDG-Un number: 1950
- 14.2. UN proper shipping name
ADR-Shipping Name: AEROSOLS
IATA-Technical name: AEROSOL
IMDG-Technical name: AEROSOL
N.A.
- 14.3. Transport hazard class(es)
ADR-Class: 2
ADR-Label: 2.1
IATA-Class: 2
IATA-Label: 2.1
IMDG-Class: 2
- 14.4. Packing group
N.A.
- 14.5. Environmental hazards
Marine pollutant: No
N.A.
- 14.6. Special precautions for user
ADR-Tunnel Restriction Code: (D)
IATA-Passenger Aircraft: 203
IATA-Cargo Aircraft: 203
IMDG-Technical name: AEROSOL
IMDG-EMS: F-D, S-U
- 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
N.A.

SECTION 15: Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Dir. 67/548/EEC (Classification, packaging and labelling of dangerous substances)
Dir. 1999/45/EC (Classification, packaging and labelling of dangerous preparations)
Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Dir. 2006/8/EC
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) n. 453/2010 (Annex I)
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)

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Regulation (EU) n. 605/2014 (ATP 6 CLP)

Volatile Organic compounds - VOCs = 83.40 %

Volatile CMR substances = 0.00 %

Halogenated VOCs which are assigned the risk phrase R40 = 0.00 %

Where applicable, refer to the following Italian regulatory provisions :

Directive 82/501/EEC ('Activities linked to risks of serious accidents') and subsequent amendments.

1999/13/EC (VOC directive)

15.2. Chemical safety assessment

No

SECTION 16: Other information

Text of phrases referred to under heading 3:

R10 Flammable.

R11 Highly flammable.

R12 Extremely flammable.

R20 Harmful by inhalation.

R20/21 Harmful by inhalation and in contact with skin.

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R36 Irritating to eyes.

R36/37/38 Irritating to eyes, respiratory system and skin.

R36/38 Irritating to eyes and skin.

R37 Irritating to respiratory system.

R37/38 Irritating to respiratory system and skin.

R38 Irritating to skin.

R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

R41 Risk of serious damage to eyes.

R43 May cause sensitization by skin contact.

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

H220 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H226 Flammable liquid and vapour.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H335 May cause respiratory irritation.

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

H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects.

H317 May cause an allergic skin reaction.

H370 Causes damage to organs.

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H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H331 Toxic if inhaled.
H302 Harmful if swallowed.
EUH066 Repeated exposure may cause skin dryness or cracking.

Paragraphs modified from the previous revision:

SECTION 2: Hazards identification
SECTION 3: Composition/information on ingredients
SECTION 7: Handling and storage
SECTION 11: Toxicological information
SECTION 14: Transport information
SECTION 15: Regulatory information

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,
Commission of the European Communities
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van
Nostrand Reinold
CCNL - Appendix 1 "TLV for 1989-90"

Safety data sheets of raw materials suppliers.

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

This MSDS cancels and replaces any preceding release.

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



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TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day.
(ACGIH Standard).
WGK: German Water Hazard Class.
N.A. Not Applicable / Not Available