# SAFETY DATA SHEET

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

### 1.1 Product identifier: Ikonikolor Pro (White Angel)

UFI: D188-70S5-A002-7AP7

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

Product type and use: Painting product for car refinish and industrial job-professional use-

1.3. Details of the supplier of the safety data sheet

Supplier:

PALINI VERNICI S.R.L. Via San Gerolamo,14 25055 Pisogne (BS)

PALINI VERNICI S.R.L. Tel.+390364/880496- 882727 Fax.+390364/882740-87722 (9-12 13-18)

Competent person responsible for the safety data sheet:

ricerca@palinal.com

1.4. Emergency telephone number

PALINI VERNICI S.R.L. Tel.+390364/880496- 882727 Fax.+390364/882740-87722 (9-12 13-18)

## SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP):

- Warning, Flam. Liq. 3, Flammable liquid and vapour.
- Warning, STOT SE 3, May cause drowsiness or dizziness.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Warning

Hazard statements:

H226 Flammable liquid and vapour.

H336 May cause drowsiness or dizziness.

Precautionary statements:

P210 Keep away from heat - No smoking.

P261 Avoid breathing vapours.

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

P370+P378 In case of fire, use a dry powder fire extinguisher to extinguish.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

None

Contains

n-butyl acetate

(1-Methoxy-2-propyl) acetate

2-ETOSSI-1METILETILACETATO

NEODECANOATO DI 2-3, EPOSSIPROPILE: May produce an allergic reaction.

Special provisions according to Annex XVII of REACH and subsequent amendments:
None

2.3. Other hazards
No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%
Other Hazards:
No other hazards

## SECTION 3: Composition/information on ingredients

3.1. Substances
N.A.
3.2. Mixtures
Hazardous components within the meaning of the CLP regulation and related classification:

| Qty | Name | Ident. Number | Classification |
|---|---|---|---|
| >=12,5% -< 15% | n-butyl acetate | Index number: 607-025-00-1<br>CAS: 123-86-4<br>EC: 204-658-1<br>REACH No.: 01-2119485493-29 | 2.6/3 Flam. Liq. 3 H226<br>3.8/3 STOT SE 3 H336 |
| >=7% -< 10% | (1-Methoxy-2-propyl) acetate | CAS: 108-65-6 | 2.6/3 Flam. Liq. 3 H226<br>3.8/3 STOT SE 3 H336 |
| >=5% -< 7% | XYLENE | CAS: 1330-20-7<br>EC: 215-535-7 | 2.6/3 Flam. Liq. 3 H226<br>3.1/4/Dermal Acute Tox. 4 H312<br>3.1/4/Inhal Acute Tox. 4 H332<br>3.2/2 Skin Irrit. 2 H315<br>3.10/1 Asp. Tox. 1 H304<br>3.9/2 STOT RE 2 H373 |
| >=5% -< 7% | 2-ETOSSI-1METILETILACETATO | CAS: 54839-24-6<br>EC: 259-370-9<br>REACH No.: 01-2119475116-39 | 2.6/3 Flam. Liq. 3 H226<br>3.8/3 STOT SE 3 H336 |
| >=1% -< 3% | 2-butoxyethyl acetate; butylglycol acetate | Index number: 607-038-00-2<br>CAS: 112-07-2<br>EC: 203-933-3<br>REACH No.: 01-2119475112-47 | 3.1/4/Dermal Acute Tox. 4 H312<br>3.1/4/Inhal Acute Tox. 4 H332<br>3.1/4/Oral Acute Tox. 4 H302 |
| >=1% -< 3% | ethylbenzene | Index number: 601-023-00-4<br>CAS: 100-41-4<br>EC: 202-849-4<br>REACH No.: 01-2119489370-35 | 2.6/2 Flam. Liq. 2 H225<br>3.1/4/Inhal Acute Tox. 4 H332<br>3.10/1 Asp. Tox. 1 H304<br>3.9/2 STOT RE 2 H373 |

| | | | | |
|---|---|---|---|---|
| >=0,1% - < 0,25% | NEODECANOATO DI 2-3, EPOSSIPROPILE | CAS: | 26761-45-5 | 3.4.2/1 Skin Sens. 1 H317<br>3.5/2 Muta. 2 H341<br>4.1/C2 Aquatic Chronic 2 H411 |
| >=0,1% - < 0,25% | 1-METOSSI-2-PROPANOLO | CAS: | 107-98-2 | 2.6/3 Flam. Liq. 3 H226<br>3.8/3 STOT SE 3 H336 |
| >=0,1% - < 0,25% | TRIMETILPROPANO | CAS: | 77-99-6 | 3.7/2 Repr. 2 H361 |
| 439 ppm | toluene | Index number:<br>CAS:<br>EC:<br>REACH No.: | 601-021-00-3<br>108-88-3<br>203-625-9<br>01-2119471310-51 | 2.6/2 Flam. Liq. 2 H225<br>3.2/2 Skin Irrit. 2 H315<br>3.8/3 STOT SE 3 H336<br>3.10/1 Asp. Tox. 1 H304<br>3.7/2 Repr. 2 H361<br>3.9/2 STOT RE 2 H373 |

## SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.
Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.
Wash thoroughly the body (shower or bath).
Remove contaminated clothing immediately and dispose off safely.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

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

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

No data available

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
Treatment:
None

## SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:
In case of fire, use a dry powder fire extinguisher to extinguish.
Extinguishing media which must not be used for safety reasons:
None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.
Burning produces heavy smoke.

5.3. Advice for firefighters

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
Wear personal protection equipment.
Remove all sources of ignition.
Remove persons to safety.
See protective measures under point 7 and 8.
6.2. Environmental precautions
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
Retain contaminated washing water and dispose it.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
Suitable material for taking up: absorbing material, organic, sand
6.3. Methods and material for containment and cleaning up
Wash with plenty of water.
6.4. Reference to other sections
See also section 8 and 13

## 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.
See also section 8 for recommended protective equipment.
Advice on general occupational hygiene:
Contamined clothing should be changed before entering eating areas.
Do not eat or drink while working.
7.2. Conditions for safe storage, including any incompatibilities
Always keep in a well ventilated place.
Store between 5 and 35°C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.
Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.
Keep away from food, drink and feed.
Incompatible materials:
None in particular.
Instructions as regards storage premises:
Cool and adequately ventilated.
7.3. Specific end use(s)
None in particular

## SECTION 8: Exposure controls/personal protection

8.1. Control parameters
n-butyl acetate - CAS: 123-86-4
ACGIH - TWA(8h): 50 ppm - STEL: 150 ppm - Notes: Eye and URT irr
EU - TWA(8h): 241 mg/m3, 50 ppm - STEL: 723 mg/m3, 150 ppm
(1-Methoxy-2-propyl) acetate - CAS: 108-65-6
EU - TWA(8h): 275 mg/m3, 50 ppm - STEL: 550 mg/m3, 100 ppm - Notes: Skin
xylene - CAS: 1330-20-7
National - TWA: 221 mg/m3, 50 ppm - STEL: 442 mg/m3, 100 ppm - Notes: pelle
EU - TWA(8h): 221 mg/m3, 50 ppm - STEL: 442 mg/m3, 100 ppm - Notes: Skin
ACGIH - TWA(8h): 20 ppm - Notes: A4, BEI - URT and eye irr; hematologic eff; CNS impair

2-butoxyethyl acetate; butylglycol acetate - CAS: 112-07-2
EU - TWA(8h): 133 mg/m3, 20 ppm - STEL: 333 mg/m3, 50 ppm - Notes: Skin
ACGIH - TWA(8h): 20 ppm - Notes: A3 - Hemolysis
ethylbenzene - CAS: 100-41-4
EU - TWA(8h): 442 mg/m3, 100 ppm - STEL: 884 mg/m3, 200 ppm - Notes: Skin
ACGIH - TWA(8h): 20 ppm - Notes: OTO; A3, BEI - URT & eye irr; ototoxicity; kidney eff; CNS impair
1-METOSSI-2-PROPANOLO - CAS: 107-98-2
EU - TWA(8h): 375 mg/m3, 100 ppm - STEL: 563 mg/m3, 150 ppm - Notes: Skin
ACGIH - TWA(8h): 50 ppm - STEL: 100 ppm - Notes: A4 - Eye and URT irr
toluene - CAS: 108-88-3
EU - TWA(8h): 192 mg/m3, 50 ppm - STEL: 384 mg/m3, 100 ppm - Notes: Skin
10 - TWA(8h): 192 mg/m3, 50 ppm - STEL: 384 mg/m3, 100 ppm - Notes: pelle 15 min.
ACGIH - TWA(8h): 20 ppm - Notes: OTO; A4; BEI - CNS, visual & hearing impair; female repro system eff; pregnancy loss

DNEL Exposure Limit Values
n-butyl acetate - CAS: 123-86-4
Worker Professional: 960 mg/kg - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Worker Professional: 960 mg/kg - Exposure: Human Inhalation - Frequency: Short Term, local effects
Worker Professional: 480 mg/kg - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Professional: 480 mg/kg - Exposure: Human Inhalation - Frequency: Long Term, local effects
Worker Professional: 859.7 mg/kg - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Worker Professional: 859.7 mg/kg - Exposure: Human Inhalation - Frequency: Short Term (acute)
xylene - CAS: 1330-20-7
Worker Professional: 3182 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Professional: 442 mg/kg - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Worker Professional: 221 mg/kg - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Professional: 221 mg/kg - Exposure: Human Inhalation - Frequency: Long Term, local effects
2-butoxyethyl acetate; butylglycol acetate - CAS: 112-07-2
Worker Professional: 102 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Professional: 133 mg/kg - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values
n-butyl acetate - CAS: 123-86-4
Target: Fresh Water - Value: 0.18 mg/l
Target: Marine water - Value: 0.018 mg/l
Target: 08 - Value: 0.36 mg/l
Target: 09 - Value: 35.6 mg/l
Target: Freshwater sediments - Value: 0.981 mg/kg
Target: Marine water sediments - Value: 0.0981 mg/kg
Target: Soil (agricultural) - Value: 0.0903 mg/kg
xylene - CAS: 1330-20-7
Target: Fresh Water - Value: 0.327 mg/l
Target: Marine water - Value: 0.327 mg/l
Target: Marine water sediments - Value: 12.46 mg/l

Target: Freshwater sediments - Value: 12.46 mg/l
Target: 09 - Value: 6.58 mg/l
Target: Soil (agricultural) - Value: 2.31 mg/kg
Target: 08 - Value: 0.327 mg/l
2-butoxyethyl acetate; butylglycol acetate - CAS: 112-07-2
Target: Fresh Water - Value: 0.304 mg/l
Target: Marine water - Value: 0.0304 mg/l
Target: 08 - Value: 0.56 mg/l
Target: Freshwater sediments - Value: 2.03 mg/kg
Target: Marine water sediments - Value: 0.203 mg/kg
Target: Soil (agricultural) - Value: 0.68 mg/kg
Target: 09 - Value: 90 mg/l

8.2. Exposure controls

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Use adequate protective respiratory equipment. es. CEN/FFP-2 o CEN/FFP-3

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

## SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Properties | Value | Method: | Notes: |
|---|---|---|---|
| Physical state: | Liquid | -- | -- |
| Colour: | White | -- | -- |
| Odour: | CHARACTERISTIC | -- | -- |
| Melting point/freezing point: | N.A. | -- | -- |
| Boiling point or initial boiling point and boiling range: | > 35 gradi C. | -- | -- |
| Flammability: | Flam. Liq. 3, H226 | -- | -- |
| Lower and upper explosion limit: | N.A. | -- | -- |
| Flash point: | >= 23 | -- | -- |
| Auto-ignition temperature: | 400 gradi C. | -- | -- |

| | | | |
|---|---|---|---|
| Decomposition temperature: | N.A. | -- | -- |
| pH: | Not Relevant | -- | -- |
| Kinematic viscosity: | > 20,5 mm2/s (40 °C) | -- | -- |
| Solubility in water: | Insolubile | -- | -- |
| Solubility in oil: | N.A. | -- | -- |
| Partition coefficient n-octanol/water (log value): | N.A. | -- | -- |
| Vapour pressure: | N.D. | -- | -- |
| Density and/or relative density: | 1.35 Kg/L | -- | -- |
| Relative vapour density: | >Air | -- | -- |
| Particle characteristics: | | | |
| Particle size: | N.A. | -- | -- |

9.2. Other information

| **Properties** | **Value** | **Method:** | **Notes:** |
|---|---|---|---|
| Explosive properties: | 2/11 % Volume | -- | -- |
| Solids | 64.3 | -- | -- |
| % Volatile carbon: | 9.2 | -- | -- |
| % Solvent | 35.7 | -- | -- |
| Oxidizing properties: | N.D. | -- | -- |

## SECTION 10: Stability and reactivity

10.1. Reactivity
Stable under normal conditions
10.2. Chemical stability
Stable under normal conditions
10.3. Possibility of hazardous reactions
None
10.4. Conditions to avoid
Stable under normal conditions.)
10.5. Incompatible materials
Avoid contact with oxidizing materials. The product could catch fire.
10.6. Hazardous decomposition products
None.

## SECTION 11: Toxicological information

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

Toxicological information of the product:

N.A.

Toxicological information of the main substances found in the product:

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

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 10000 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat > 21.1 mg/l - Duration: 4h

Test: LD50 - Route: Skin - Species: Rabbit > 14000 mg/kg

xylene - CAS: 1330-20-7

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat = 5000 Ppm - Duration: 4h

Test: LD50 - Route: Skin - Species: Rabbit > 1700 mg/kg

2-butoxyethyl acetate; butylglycol acetate - CAS: 112-07-2

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 1880 mg/kg

Test: LD50 - Route: Inhalation - Species: Rat > 3.91 mg/kg - Duration: 8h

Test: LD50 - Route: Skin - Species: Rabbit = 1500 mg/kg

ethylbenzene - CAS: 100-41-4

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 3500 mg/kg

toluene - CAS: 108-88-3

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 5580 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit 12124 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat 28.1 mg/l - Duration: 4h

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

OBSERVATIONS ON HUMAN SUBJECTS:

Inhalation: 3300 ppm (16 mg/l), for short periods, cause serious irritation to the eyes and to the nose.

Inhalation: 200-300 ppm (1-1.4 mg/l), for short periods, cause moderate irritation to the eyes and to the nose.

Inhaling the vapours can irritate the respiratory system.

The vapours can cause headache and nausea. As a liquid it can irritate the eyes and cause conjunctivitis, it can irritate the skin and cause dermatitis and, if swallowed, causes inebriation, hallucinations and sedation.

Symptoms of illness at 500 ppm. Serious toxic effects at 2,000 ppm for 60 min.

TCLo: 200 ppm

xylene - CAS: 1330-20-7

OBSERVATIONS ON HUMAN SUBJECTS NON-PROFESSIONAL EXPOSURED-

Effects following acute exposure:

Symptoms of intense exposure are: dermatitis, eczema, irritation to the eyes and to the respiratory tract.

Inhaling the vapours can cause dizziness, headache, nausea, incoordination, excitability, narcosis, anaemia, and paraesthesia of the hands and feet.

PROFESSIONAL EXPOSURED- Effects following acute exposure:

Narcotic at high concentrations.

Irritation through inhalation at 200 ppm (TCLo). Inhalation of 200 ppm has irritating effects in human subjects.

Human subject (oral)(LDLo): 50 mg/kg.

Inhalatory human subject (LCLo) 10000 ppm/6h.

If not differently specified, the information required in Regulation (EU)2020/878 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.

11.2. Information on other hazards
Endocrine disrupting properties:
No endocrine disruptor substances present in concentration >= 0.1%

## SECTION 12: Ecological information

12.1. Toxicity
Adopt sound working practices, so that the product is not released into the environment.
n-butyl acetate - CAS: 123-86-4
e) Plant toxicity:
Endpoint: EC50 - Species: Algae = 675 mg/l - Duration h: 72
xylene - CAS: 1330-20-7
a) Aquatic acute toxicity:
Endpoint: EC50 - Species: Algae = 21 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia = 29 mg/l - Duration h: 96
Endpoint: EC50 - Species: Fish = 35 mg/l - Duration h: 96
Endpoint: LC50 - Species: Daphnia = 165 mg/l - Duration h: 24
2-butoxyethyl acetate; butylglycol acetate - CAS: 112-07-2
e) Plant toxicity:
Endpoint: EC50 - Species: Algae = 1570 mg/l - Duration h: 72

12.2. Persistence and degradability
None
N.A.

12.3. Bioaccumulative potential
N.A.

12.4. Mobility in soil
N.A.

12.5. Results of PBT and vPvB assessment
vPvB Substances: None - PBT Substances: None

12.6. Endocrine disrupting properties
No endocrine disruptor substances present in concentration >= 0.1%

12.7. Other adverse effects
None

## SECTION 13: Disposal considerations

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

## SECTION 14: Transport

### DOT

| | |
|---|---|
| **Shipping Name:** | Paints |
| **Hazard Class:** | 3 |
| **UN/NA Number:** | 1263 |
| **Packing Group:** | III |
| **Additional Information:** | LTD QTY EXCEPTION: This product may be reclassified as "limited quantity" per 49 CFR 173.150 (b)(3) and thus is exempt from labeling requirements when transported within the U.S. by motor vehicle or rail only. This exception applies as long as it is packaged with strong outer packaging and with inner packagings not over 5.0 L (1.3 gallons) net capacity each. |

### IMDG

| | |
|---|---|
| **Proper Shipping Name:** | Paint |
| **Hazard Class:** | 3 |
| **UN Number:** | 1263 |
| **Packing Group:** | III |

### IATA

| | |
|---|---|
| **Proper Shipping Name:** | UN1263, Paint |
| **Hazard Class:** | 3 |
| **Packing Group:** | III |

14.1. UN number or ID number

| | |
|---|---|
| ADR-UN Number: | 1263 |
| IATA-UN Number: | 1263 |
| IMDG-UN Number: | 1263 |

14.2. UN proper shipping name

| | |
|---|---|
| ADR-Shipping Name: | PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (includingpaint thinning and reducing compound) |
| IATA-Shipping Name: | PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (includingpaint thinning and reducing compound) |
| IMDG-Shipping Name: | PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (includingpaint thinning and reducing compound) |

14.3. Transport hazard class(es)

| | |
|---|---|
| ADR-Class: | 3 |
| ADR - Hazard identification number: | 30 |
| IATA-Class: | 3 |
| IATA-Label: | 3 |
| IMDG-Class: | 3 |

14.4. Packing group

| | |
|---|---|
| ADR-Packing Group: | III |
| IATA-Packing group: | III |
| IMDG-Packing group: | III |

14.5. Environmental hazards

| | |
|---|---|
| ADR-Enviromental Pollutant: | NO |
| IMDG-Marine pollutant: | NO |
| IMDG-EmS: | F-E , S-E |

14.6. Special precautions for user

| | |
|---|---|
| ADR-Subsidiary hazards: | - |
| ADR-S.P.: | 163 367 640E 650 |
| ADR-Transport category (Tunnel restriction code): | 3 (D/E) |
| IATA-Passenger Aircraft: | 355 |
| IATA-Subsidiary hazards: | - |
| IATA-Cargo Aircraft: | 366 |
| IATA-S.P.: | A3 A72 A192 |
| IATA-ERG: | 3L |
| IMDG-Subsidiary hazards: | - |
| IMDG-Stowage and handling: | Category A |
| IMDG-Segregation: | - |

14.7. Maritime transport in bulk according to IMO instruments

N.A.

## SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) n. 2020/878
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)
Regulation (EU) n. 2017/776 (ATP 10 CLP)
Regulation (EU) n. 2018/669 (ATP 11 CLP)
Regulation (EU) n. 2018/1480 (ATP 13 CLP)
Regulation (EU) n. 2018/1480 (ATP 13 CLP)
Regulation (EU) n. 2019/521 (ATP 12 CLP)
Regulation (EU) n. 2020/217 (ATP 14 CLP)
Regulation (EU) n. 2020/1182 (ATP 15 CLP)
Regulation (EU) n. 2021/643 (ATP 16 CLP)
Regulation (EU) n. 2021/849 (ATP 17 CLP)
Regulation (EU) n. 2022/692 (ATP 18 CLP)
Regulation (EU) n. 2023/707
Regulation (EU) n. 2023/1434 (ATP 19 CLP)
Regulation (EU) n. 2023/1435 (ATP 20 CLP)
Regulation (EU) n. 2024/197 (ATP 21 CLP)
Regulation (EU) n. 2024/2564 (ATP 22 CLP)
Regulation (EU) n. 2024/2865
Regulation (EU) n. 2025/1222 (ATP 23 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications: 878/2020

Restrictions related to the product:

Restriction 3
Restriction 40

Restrictions related to the substances contained:

No restriction.

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)
Regulation (EC) nr 648/2004 (detergents).
Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

Product belongs to category: P5c

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

## SECTION 16: Other information

Text of phrases referred to under heading 3:

H226 Flammable liquid and vapour.
H336 May cause drowsiness or dizziness.
H312 Harmful in contact with skin.
H332 Harmful if inhaled.
H315 Causes skin irritation.
H304 May be fatal if swallowed and enters airways.
H373 May cause damage to organs through prolonged or repeated exposure.
H302 Harmful if swallowed.
H225 Highly flammable liquid and vapour.
H317 May cause an allergic skin reaction.
H341 Suspected of causing genetic defects.
H411 Toxic to aquatic life with long lasting effects.
H361 Suspected of damaging fertility or the unborn child.

| Hazard class and hazard category | Code | Description |
|---|---|---|
| Flam. Liq. 2 | 2.6/2 | Flammable liquid, Category 2 |
| Flam. Liq. 3 | 2.6/3 | Flammable liquid, Category 3 |
| Acute Tox. 4 | 3.1/4/Dermal | Acute toxicity (dermal), Category 4 |
| Acute Tox. 4 | 3.1/4/Inhal | Acute toxicity (inhalation), Category 4 |
| Acute Tox. 4 | 3.1/4/Oral | Acute toxicity (oral), Category 4 |
| Asp. Tox. 1 | 3.10/1 | Aspiration hazard, Category 1 |
| Skin Irrit. 2 | 3.2/2 | Skin irritation, Category 2 |
| Skin Sens. 1 | 3.4.2/1 | Skin Sensitisation, Category 1 |
| Muta. 2 | 3.5/2 | Germ cell mutagenicity, Category 2 |
| Repr. 2 | 3.7/2 | Reproductive toxicity, Category 2 |
| STOT SE 3 | 3.8/3 | Specific target organ toxicity - single exposure, Category 3 |
| STOT RE 2 | 3.9/2 | Specific target organ toxicity - repeated exposure, Category 2 |
| Aquatic Chronic 2 | 4.1/C2 | Chronic (long term) aquatic hazard, category 2 |

Paragraphs modified from the previous revision:

SECTION 1: Identification of the substance/mixture and of the company/undertaking
SECTION 2: Hazards identification
SECTION 3: Composition/information on ingredients
SECTION 8: Exposure controls/personal protection
SECTION 9: Physical and chemical properties
SECTION 11: Toxicological information
SECTION 12: Ecological information
SECTION 14: Transport information
SECTION 15: Regulatory information
SECTION 16: Other information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

| Classification according to Regulation (EC) Nr. 1272/2008 | Classification procedure |
|---|---|
| Flam. Liq. 3, H226 | On basis of test data |
| STOT SE 3, H336 | Calculation method |

Main bibliographic sources:

NIOSH - Registry of toxic effects of chemical substances (1983)

I.N.R.S. - Fiche Toxicologique

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.

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