

# Safety Data Sheet

## STYLO AND REFILL



Safety Data Sheet dated 27/5/2015, version 0

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

1.1. Product identifier

Mixture identification:

Trade name: STYLO AND REFILL

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

1.3. Details of the supplier of the safety data sheet

Company:

COLORPACK s.r.l.

Via B.Cellini 26

20020 Solaro

Milano - Italia

Fax +39 029691714 Tel.+39 029690664 (8.30-17.00 from monday to friday)

Web site: www.colorpack.com E-mail: info@colorpack.com

Competent person responsible for the safety data sheet:

m.franzoni@colorpack.com

1.4. Emergency telephone number

COLORPACK s.r.l. Tel.+39 029690664 (8.30-17.00 from monday to friday)

Centro Antiveleni di Milano - Azienda Ospedaliera Niguarda Cà Granda - Tel. 02/66101029

### SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Directive criteria, 67/548/CE, 99/45/EC and following amendments thereof:

Properties / Symbols:

F Highly flammable

Xi Irritant

R Phrases:


R11 Highly 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, Flam. Liq. 2, Highly flammable liquid and vapour.

 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.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Symbols:



Danger

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### Hazard statements:

- H225 Highly flammable liquid and vapour.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.

### Precautionary statements:

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P501 Dispose of contents/container in accordance with applicable regulations.

### Special Provisions:

- EUH066 Repeated exposure may cause skin dryness or cracking.

### Contents

- ethyl acetate
- n-butyl acetate

### 2.3. Other hazards

- vPvB Substances: None - PBT Substances: None

### Other Hazards:

- No other hazards

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## 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:

#### >= 20% - < 25% ethyl acetate

- REACH No.: 01-2119475103-46, Index number: 607-022-00-5, CAS: 141-78-6, EC: 205-500-4

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

#### >= 15% - < 20% ethanol; ethyl alcohol

- REACH No.: 01-2119457610-43, Index number: 603-002-00-5, CAS: 64-17-5, EC: 200-578-6

F; R11

 2.6/2 Flam. Liq. 2 H225

#### >= 10% - < 15% 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

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 2.6/3 Flam. Liq. 3 H226

 3.8/3 STOT SE 3 H336

>= 5% - < 7% 2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve  
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

>= 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 Community workplace exposure limit

 2.6/3 Flam. Liq. 3 H226

>= 0.25% - < 0.5% butanone; ethyl methyl ketone

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

>= 0.1% - < 0.25% Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -  
unspecified; [A complex combination of hydrocarbons obtained from distillation of aromatic streams.  
It consist

REACH No.: 01-2119486773-24, Index number: 649-356-00-4, CAS: 64742-95-6, EC:  
265-199-0

Xn,Xi,N; R51/53-10-37-65-66-67

 2.6/3 Flam. Liq. 3 H226

 3.8/3 STOT SE 3 H335

 3.10/1 Asp. Tox. 1 H304

 3.8/3 STOT SE 3 H336

 4.1/C2 Aquatic Chronic 2 H411

DECLP\*

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\*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% w/w of benzene.

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### 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.

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:

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

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

None

#### 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

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media:

CO2 or Dry chemical fire extinguisher.

In case of fire, use CO2, dry chemical powder, foam fire extinguishers.

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.

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### 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.

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- 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

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#### 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  
Always keep the containers tightly closed.  
Always keep in a well ventilated place.  
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

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#### SECTION 8: Exposure controls/personal protection

- 8.1. Control parameters  
ethyl acetate - CAS: 141-78-6  
ACGIH, 400 ppm - Notes: URT and eye irr  
ethanol; ethyl alcohol - CAS: 64-17-5  
ACGIH, 1000 ppm - Notes: A3 - URT irr  
n-butyl acetate - CAS: 123-86-4  
ACGIH, 150 ppm, 200 ppm - Notes: Eye and URT irr  
2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve - CAS: 111-76-2  
EU - LTE(8h): 98 mg/m<sup>3</sup>, 20 ppm - STE: 246 mg/m<sup>3</sup>, 50 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 - Notes: A3, BEI - Eye and URT irr  
2-methoxy-1-methylethyl acetate - CAS: 108-65-6  
EU - LTE(8h): 275 mg/m<sup>3</sup>, 50 ppm - STE: 550 mg/m<sup>3</sup>, 100 ppm - Notes: Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)  
butanone; ethyl methyl ketone - CAS: 78-93-3  
EU - LTE(8h): 600 mg/m<sup>3</sup>, 200 ppm - STE: 900 mg/m<sup>3</sup>, 300 ppm - Notes: Bold-type:  
Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)

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ACGIH, 200 ppm, 300 ppm - Notes: BEI - URT irr, CNS and PNS impair  
Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified; [A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consist - CAS: 64742-95-6

TLV TWA - 1760 mg/m<sup>3</sup>

#### DNEL Exposure Limit Values

ethyl acetate - CAS: 141-78-6

Worker Professional: 734 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 1468 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term (acute)

Worker Professional: 734 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, local effects

Worker Professional: 63 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 367 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 734 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term (acute)

Consumer: 367 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, local effects

Consumer: 37 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 4.5 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

ethanol; ethyl alcohol - CAS: 64-17-5

Worker Professional: 950 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 343 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 114 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 206 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 87 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

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

Worker Professional: 102.34 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, local effects

Worker Professional: 960 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Professional: 960 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Professional: 480 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 480 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, local effects

Consumer: 859.7 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Consumer: 859.7 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, local effects

Consumer: 102.34 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve - CAS: 111-76-2

Worker Professional: 75 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

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Worker Professional: 98 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 38 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 49 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 3.2 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

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

Worker Professional: 275 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 153.5 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 33 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 54.8 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 1.67 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

N.A.

8.2. Exposure controls

Eye protection:

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

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.

Thermal Hazards:

None

Environmental exposure controls:

None

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## SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance and colour:	Liquid
Odour:	Characteristic
Odour threshold:	N.A.
pH:	N.A.
Melting point / freezing point:	N.A.
Initial boiling point and boiling range:	110-120 °C
Gas flammability:	N.A.
Upper/lower flammability or explosive limits:	N.A.
Vapour density:	> 1 ( Air = 1 )
Flash point:	< 21 °C
Evaporation rate:	N.A.
Vapour pressure:	N.A.
Relative density:	0.93 +/- 0.05 - 20 °C
Partition coefficient (n-octanol/water):	N.A.
Auto-ignition temperature:	> 400 °C
Decomposition temperature:	N.A.

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Viscosity: N.A.  
Explosive properties: N.A.  
Oxidizing properties: N.A.

### 9.2. Other information

Volatile organic compounds - VOCs = 605 g/l

Miscibility: N.A.  
Fat Solubility: N.A.  
Conductivity: N.A.  
Substance Groups relevant properties N.A.

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## 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 combustible materials. The product could catch fire.

### 10.6. Hazardous decomposition products

None.

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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Toxicological information of the mixture:

N.A.

Toxicological information of the main substances found in the mixture:

ethyl acetate - CAS: 141-78-6

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 11.3 ml/kg

Test: LD50 - Route: Skin - Species: Rabbit > 20000 mg/kg - Duration: 48h

ethanol; ethyl alcohol - CAS: 64-17-5

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 1187 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat = 87.5 mg/l

Test: LD50 - Route: Skin - Species: Rabbit = 17100 mg/kg

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

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 10760 mg/kg

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

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

2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve - CAS: 111-76-2

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat = 450 ppm - Duration: 4h

Test: LD50 - Route: Oral - Species: Rat = 1746 mg/kg

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

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg



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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.

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### SECTION 12: Ecological information

#### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

WGK: 1

ethanol; ethyl alcohol - CAS: 64-17-5

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 13000 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 23500 mg/l - Duration h: 24

Endpoint: EC50 - Species: Algae = 28440 mg/l

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

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 44 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 648 mg/l - Duration h: 72

Endpoint: LC50 - Species: Fish = 18 mg/l - Duration h: 96

2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve - CAS: 111-76-2

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 1550 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 911 mg/l - Duration h: 72

Endpoint: LC50 - Species: Fish = 1474 mg/l - Duration h: 96

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

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 161 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 1000 mg/l - Duration h: 24

Endpoint: NOEC - Species: Algae > 1000 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. Other adverse effects

None

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

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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.

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### SECTION 14: Transport information

- 14.1. UN number  
ADR-UN number: 1263  
IATA-Un number: 1263  
IMDG-Un number: 1263
- 14.2. UN proper shipping name  
ADR-Shipping Name: PAINT  
IATA-Technical name: PAINT  
IMDG-Technical name: PAINT
- 14.3. Transport hazard class(es)  
ADR-Class: 3  
ADR-Label: 3  
ADR - Hazard identification number: 33  
IATA-Class: 3  
IATA-Label: Flamm. Liquid  
IMDG-Class: 3
- 14.4. Packing group  
ADR-Packing Group: II  
IATA-Packing group: II  
IMDG-Packing group: II
- 14.5. Environmental hazards
- 14.6. Special precautions for user  
ADR-Tunnel Restriction Code: (D/E)  
ADR-Limited Quantity (LQ): 5 L  
IATA-Passenger Aircraft: 305  
IATA-Cargo Aircraft: 307  
IMDG-Technical name: PAINT
- 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code  
N.A.

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### 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. 99/45/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)
- Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:  
None
- Where applicable, refer to the following regulatory provisions :  
Directive 2003/105/CE ('Activities linked to risks of serious accidents') and subsequent amendments.  
Regulation (EC) nr 648/2004 (detergents).  
1999/13/EC (VOC directive)

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Provisions related to directives 82/501/EC(Seveso), 96/82/EC(Seveso II):  
N.A.

15.2. Chemical safety assessment  
No

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### SECTION 16: Other information

Full text of phrases referred to in Section 3:

R10 Flammable.  
R11 Highly flammable.  
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.  
R36 Irritating to eyes.  
R36/38 Irritating to eyes and skin.  
R37 Irritating to respiratory system.  
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.

H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H226 Flammable liquid and vapour.  
H315 Causes skin irritation.  
H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H304 May be fatal if swallowed and enters airways.  
H411 Toxic to aquatic life with long lasting effects.

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

Insert further consulted bibliography

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

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	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.
TWATLV:	Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
WGK:	German Water Hazard Class.