Safety Data Sheet
IT01TOPG30 - Finitura poliur.trasp.ignifuga classe 1

Safety Data Sheet dated 12/6/2015, version 16

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

1.1. Product identifier

Mixture identification:

Trade name: Finitura poliur.trasp.ignifuga classe 1

Trade code: IT01TOPG30

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

Recommended use:Surface coating

1.3. Details of the supplier of the safety data sheet

Company:

Sirca S.p.A.

Address:

Viale Roma, 85

35010 S.Dono di Massanzago (PD) - ITALY

Tel. +39 0499322311

Competent person responsible for the safety data sheet:

safety@sirca.it

1.4. Emergency telephone number

Sirca S.p.A. +39 049 9322311 (08.00 - 17.00) From Monday to Friday

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP):

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

Warning, Skin Irrit. 2, Causes skin irritation.

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

Lact., May cause harm to breast-fed children.

Warning, STOT SE 3, May cause respiratory irritation.

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

Warning, STOT RE 2, May cause damage to organs through prolonged or repeated exposure.

Warning, Aquatic Acute 1, Very toxic to aquatic life.

Aquatic Chronic 2, Toxic to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards known

2.2. Label elements

Symbols:

Danger

Hazard statements:

H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H362 May cause harm to breast-fed children.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P201 Obtain special instructions before use.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240 Ground/bond container and receiving equipment.
P243 Take precautionary measures against static discharge.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P263 Avoid contact during pregnancy/while nursing.
P370+P378 In case of fire: Use CO2, Foam, Chemical powders to extinguish.

Special Provisions:

None

Contents:

xylene [isomer mixture]
butanone

4-methylpentan-2-one; isobutyl methyl ketone
n-butyl acetate

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

2.3. Other hazards

Other Hazards:
No other hazards known

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:

>= 12.5% - < 20% xylene [isomer mixture]
REACH No.: 01-2119488216-32-xxxx, Index number: 601-022-00-9, CAS: 1330-20-7, EC: 215-535-7
2.6/3 Flam. Liq. 3 H226
3.10/1 Asp. Tox. 1 H304
3.3/2 Eye Irrit. 2 H319
3.8/3 STOT SE 3 H335
3.9/2 STOT RE 2 H373
3.2/2 Skin Irrit. 2 H315
3.1/4/Dermal Acute Tox. 4 H312
3.1/4/Inhal Acute Tox. 4 H332

>= 12.5% - < 20% butanone
REACH No.: 01-2119457290-43-xxxx, Index number: 606-002-00-3, CAS: 78-93-3, EC: 201-159-0
2.6/2 Flam. Liq. 2 H225
3.3/2 Eye Irrit. 2 H319
3.8/3 STOT SE 3 H336
EUH066

>= 9.9% - < 12.5% 4-methylpentan-2-one; isobutyl methyl ketone
REACH No.: 01-2119473980-30-xxxx, Index number: 606-004-00-4, CAS: 108-10-1, EC: 203-550-1
2.6/2 Flam. Liq. 2 H225
3.3/2 Eye Irrit. 2 H319
3.8/3 STOT SE 3 H335
3.1/4/Inhal Acute Tox. 4 H332
EUH066

>= 9.9% - < 12.5% Alkanes, C14-17, chloro
Index number: 602-095-00-X, CAS: 85535-85-9, EC: 287-477-0
3.7/Lact. Lact. H362
4.1/A1 Aquatic Acute 1 H400
4.1/C1 Aquatic Chronic 1 H410
EUH066

>= 3% - < 5% n-butyl acetate
REACH No.: 01-2119485493-29-xxxx, Index number: 607-025-00-1, CAS: 123-86-4, EC: 204-658-1
2.6/3 Flam. Liq. 3 H226
3.8/3 STOT SE 3 H336
EUH066

>= 3% - < 5% ethylbenzene
REACH No.: 01-2119489370-35-xxxx, Index number: 601-023-00-4, CAS: 100-41-4, EC: 202-849-4
2.6/2 Flam. Liq. 2 H225
3.1/4/Inhal Acute Tox. 4 H332

>= 1% - < 2% Hydrocarbons, C9, aromatics
REACH No.: 01-2119455851-35-xxx, EC: 918-668-5
2.6/3 Flam. Liq. 3 H226
3.8/3 STOT SE 3 H335
3.8/3 STOT SE 3 H336
4.1/C2 Aquatic Chronic 2 H411
3.10/1 Asp. Tox. 1 H304
DECLP (CLP)*

>= 0.1% - < 0.2% ethanol; ethyl alcohol
REACH No.: 01-2119457610-43-xxxx, Index number: 603-002-00-5, CAS: 64-17-5, EC: 200-578-6
2.6/2 Flam. Liq. 2 H225
3.3/2 Eye Irrit. 2 H319

>= 0.06% - < 0.1% 2,6-dimethylheptan-4-one; di-isobutyl ketone

REACH No.: 01-2119474441-41-xxxx, Index number: 606-005-00-X, CAS: 108-83-8, EC: 203-620-1
2.6/3 Flam. Liq. 3 H226
3.8/3 STOT SE 3 H335

>= 0.06% - < 0.1% toluene
REACH No.: 01-2119471310-51-xxxx, Index number: 601-021-00-3, CAS: 108-88-3, EC: 203-625-9
2.6/2 Flam. Liq. 2 H225
3.7/2 Repr. 2 H361
3.10/1 Asp. Tox. 1 H304
3.9/2 STOT RE 2 H373
3.2/2 Skin Irrit. 2 H315
3.8/3 STOT SE 3 H336

>= 0.06% - < 0.1% methanol
REACH No.: 01-2119433307-44-xxxx, Index number: 603-001-00-X, CAS: 67-56-1, EC: 200-659-6
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

>= 0.0015% - < 0.05% 2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve
REACH No.: 01-2119475108-36-xxxx, Index number: 603-014-00-0, CAS: 111-76-2, EC: 203-905-0
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

>= 0.0015% - < 0.05% 2-diethylaminoethanol
Index number: 603-048-00-6, CAS: 100-37-8, EC: 202-845-2
2.6/3 Flam. Liq. 3 H226
3.2/1B Skin Corr. 1B H314
3.1/4/Oral Acute Tox. 4 H302
3.1/4/Dermal Acute Tox. 4 H312
3.1/4/Inhal Acute Tox. 4 H332

*DECLP (CLP): Substance classified in accordance with Note P, Annex VI of EC Regulation (EC) 1272/2008. The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7). When the substance is not classified as a carcinogen at least the precautionary statements (P102-)P260-P262-P301 + P310-P331 (Table 3.1) or the S-phrases (2-)23-24-62 (Table 3.2) shall apply. This note applies only to certain complex oil-derived substances in Part 3.

SECTION 4: First aid measures

4.1. Description of first aid measures
In case of skin contact:
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 opthalmologist immediately.
Protect uninjured eye.
In case of Ingestion:
Induce vomiting only on doctor's advice
In case of Inhalation:
In case of inhalation, consult a doctor immediately and show him packing or label.
4.2. Most important symptoms and effects, both acute and delayed
Contact a poisons centre
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:
In case of fire, use CO_2, Foam, Chemical powders
Extinguishing media which must not be used for safety reasons:
None in particular.
5.2. Special hazards arising from the substance or mixture
Combustion may liberate toxic or very toxic gases. Do not breathe fumes.
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.
Wear breathing apparatus if exposed to vapours/dusts/aerosols.
Provide adequate ventilation.
Remove persons to safety.
Use appropriate respiratory protection.
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
Eliminate all unguarded flames and possible sources of ignition. Do not smoke.

6.3. Methods and material for containment and cleaning up

Collect the spilled product with no-sparking tools.

Rapidly recover the product. To do so, wear a mask and protective clothing.
Recover the product for re-use if possible, or for elimination. The product might, where appropriate, be absorbed by inert material.
After the product has been recovered, rinse the area and materials involved with water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Keep away from flame and sparks. Avoid accumulating electrostatic charge.
Place recipients on the ground whilst decanting, and wear anti-static clothing and shoes.
Avoid contact with skin and eyes, inhalation of vapours and mists.
Use localized ventilation system.
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.
Contamined clothing should be changed before entering eating areas.
Do not eat or drink while working.
Do not smoke while working.
See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Store at below 30 ℃. Keep away from unguarded flam e 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.
Safety electric system.

7.3. Specific end use(s)

No further recommendations. Refer to point 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

xylene [isomer mixture] - CAS: 1330-20-7
(OEL (IT)) - LTE(8h): 221 mg/m3, 50 ppm - STE: 442 mg/m3, 100 ppm - Behaviour: Binding - Notes: pelle
EU - LTE(8h): 221 mg/m3, 50 ppm - STE: 442 mg/m3, 100 ppm - Notes: skin
ACGIH - LTE: 434.19 mg/m3, 100 ppm - STE: 651.29 mg/m3, 150 ppm - Notes: A4

butanone - CAS: 78-93-3
(OEL (IT)) - LTE(8h): 600 mg/m3, 200 ppm - STE: 900 mg/m3, 300 ppm - Behaviour: Binding
EU - LTE(8h): 600 mg/m3, 200 ppm - STE: 900 mg/m3, 300 ppm
ACGIH - LTE: 589.78 mg/m3, 200 ppm - STE: 884.66 mg/m3, 300 ppm

4-methylpentan-2-one; isobutyl methyl ketone - CAS: 108-10-1
(OEL (IT)) - LTE(8h): 83 mg/m3, 20 ppm - STE: 208 mg/m3, 50 ppm - Behaviour: Binding
EU - LTE(8h): 83 mg/m3, 20 ppm - STE: 208 mg/m3, 50 ppm
ACGIH - LTE: 204.83 mg/m3, 50 ppm - STE: 307.24 mg/m3, 75 ppm

n-butyl acetate - CAS: 123-86-4
TWA (Italia) - LTE: 150 ppm
TLV TWA - 150 ppm - 712,64 mg/m3
TLV STEL - 200 ppm - 950,18 mg/m3

ethylbenzene - CAS: 100-41-4

(OEL (IT)) - LTE(8h): 442 mg/m3, 100 ppm - STE: 884 mg/m3, 200 ppm - Behaviour: Binding - Notes: pelle
EU - LTE(8h): 442 mg/m3, 100 ppm - STE: 884 mg/m3, 200 ppm - Notes: Skin
ACGIH - LTE: 434.19 mg/m3, 100 ppm - STE: 542.74 mg/m3, 125 ppm - Notes: A3

Hydrocarbons, C9, aromatics
ACGIH - LTE: 100 mg/m3, 19 ppm

ethanol; ethyl alcohol - CAS: 64-17-5
TLV TWA - 1000 ppm, A4 - 1884,25 mg/m3, A4
TLV STEL - A4

2,6-dimethylheptan-4-one; di-isobutyl ketone - CAS: 108-83-8
ACGIH - LTE(8h): 25 ppm - Notes: URT and eye irr

toluene - CAS: 108-88-3
(OEL (IT)) - LTE(8h): 192 mg/m3, 50 ppm - Behaviour: Binding - Notes: Pelle
EU - LTE(8h): 192 mg/m3, 50 ppm - STE: 384 mg/m3, 100 ppm - Notes: Skin
ACGIH - LTE: 188.4 mg/m3, 50 ppm - Notes: A4 Skin

methanol - CAS: 67-56-1
(OEL (IT)) - LTE(8h): 260 mg/m3, 200 ppm - Behaviour: Binding - Notes: Pelle
EU - LTE(8h): 260 mg/m3, 200 ppm - Notes: Skin
ACGIH - LTE: 262.09 mg/m3, 200 ppm - STE: 237.61 mg/m3, 250 ppm - Notes: Skin

2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve - CAS: 111-76-2
(OEL (IT)) - LTE(8h): 98 mg/m3, 20 ppm - STE: 246 mg/m3, 50 ppm - Behaviour: Binding - Notes: pelle
EU - LTE(8h): 98 mg/m3, 20 ppm - STE: 246 mg/m3, 50 ppm - Notes: Skin
ACGIH - LTE: 96.66 mg/m3, 20 ppm - Notes: A3
MAK - LTE: 49 mg/m3, 10 ppm

2-diethylaminoethanol - CAS: 100-37-8
ACGIH - LTE(8h): 2 ppm - Notes: Skin - URT irr, CNS convul

DNEL Exposure Limit Values

xylene [isomer mixture] - CAS: 1330-20-7
Worker Industry: 180 mg/Kg-bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Industry: 77 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 108 mg/Kg-bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 14.8 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, local effects
Consumer: 1.6 mg/Kg-bw/day - Exposure: Human Oral - Frequency: Long Term, systemic effects

4-methylpentan-2-one; isobutyl methyl ketone - CAS: 108-10-1
Worker Industry: 208 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term (acute)
Worker Industry: 208 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, local effects
Worker Industry: 11.8 mg/kg - Exposure: Human Dermal - Frequency: Long Term (repeated)
Worker Industry: 83 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term (repeated)
Worker Industry: 83 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, local effects
Consumer: 155.2 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term (acute)
Consumer: 155.2 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, local effects
Consumer: 4.2 mg/kg - Exposure: Human Dermal - Frequency: Long Term (repeated)
Consumer: 14.7 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term (repeated)
Consumer: 4.2 mg/kg - Exposure: Human Oral - Frequency: Long Term (repeated)

n-butyl acetate - CAS: 123-86-4
Worker Professional: 960 mg/m3 - Consumer: 859.7 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Worker Professional: 480 mg/m3 - Consumer: 102.34 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Professional: 960 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, local effects

2,6-dimethylheptan-4-one; di-isobutyl ketone - CAS: 108-83-8
Worker Industry: 290 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Worker Industry: 80 mg/Kg-bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Industry: 479 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 145 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Consumer: 28.5 mg/Kg-bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 282 mg/kg - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 7.14 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

toluene - CAS: 108-88-3
Consumer: 226 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Consumer: 226 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, local effects
Consumer: 226 mg/m3 - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 56.5 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 8.13 mg/Kg-bw/day - Exposure: Human Oral - Frequency: Long Term, systemic effects

methanol - CAS: 67-56-1
Worker Industry: 260 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Worker Industry: 260 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Industry: 260 mg/kg/day - Exposure: Human Inhalation - Frequency: Short Term, local effects
Worker Industry: 260 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, local effects
Worker Industry: 40 mg/kg/day - Exposure: Human Dermal - Frequency: Short Term, systemic effects
Worker Industry: 40 mg/kg/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects

2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve - CAS: 111-76-2
Worker Industry: 89 mg/kg - Consumer: 44.5 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects
Worker Industry: 135 ppm - Consumer: 426 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Worker Industry: 50 ppm - Consumer: 123 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Industry: 75 mg/kg - Consumer: 38 mg/Kg-bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Industry: 20 ppm - Consumer: 49 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 13.4 mg/kg - Exposure: Human Oral - Frequency: Short Term, systemic effects
Consumer: 3.2 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

xylene [isomer mixture] - CAS: 1330-20-7
Target: Fresh Water - Value: 0.327 mg/l
Target: Fresh Water - Value: 0.327 mg/l
Target: occasional emission - Value: 0.327 mg/l
Target: Microorganisms in sewage treatments - Value: 6.58 mg/l
Target: Soil (agricultural) - Value: 2.31 mg/kg - Notes:: dry
Target: Marine water sediments - Value: 12.46 mg/kg - Notes:: dry
Target: Freshwater sediments - Value: 12.46 mg/kg - Notes:: dry

4-methylpentan-2-one; isobutyl methyl ketone - CAS: 108-10-1
Target: Fresh Water - Value: 0.6 mg/l
Target: Marine water - Value: 0.06 mg/l
Target: Freshwater sediments - Value: 8.27 mg/kg
Target: Marine water sediments - Value: 0.83 mg/kg
Target: Soil (agricultural) - Value: 1.3 mg/kg

n-butyl acetate - CAS: 123-86-4
Target: Fresh Water - Value: 0.18 mg/l
Target: Marine water - Value: 0.018 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

2,6-dimethylheptan-4-one; di-isobutyl ketone - CAS: 108-83-8
Target: Fresh Water - Value: 0.03 mg/l
Target: Marine water - Value: 0.003 mg/l
Target: occasional emission - Value: 0.3 mg/l
Target: Freshwater sediments - Value: 0.46 mg/kg
Target: Marine water sediments - Value: 0.046 mg/kg
Target: Microorganisms in sewage treatments - Value: 2.55 mg/l
Target: Soil (agricultural) - Value: 0.0746 mg/kg

toluene - CAS: 108-88-3
Target: Freshwater sediments - Value: 0.68 mg/l
Target: Marine water sediments - Value: 0.68 mg/l
Target: Soil (agricultural) - Value: 2.89 mg/kg

methanol - CAS: 67-56-1
Target: Marine water - Value: 15.4 mg/l
Target: Fresh Water - Value: 154 mg/l
Target: occasional emission - Value: 1540 mg/l
Target: STP - Value: 100 mg/l
Target: Soil (agricultural) - Value: 23.5 mg/l

2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve - CAS: 111-76-2
Target: Fresh Water - Value: 8.8 mg/l
Target: Marine water - Value: 0.88 mg/l
Target: Microorganisms in sewage treatments - Value: 463 mg/l
Target: Freshwater sediments - Value: 34.6 mg/kg
Target: Marine water sediments - Value: 3.46 mg/kg
Target: Soil (agricultural) - Value: 2.8 mg/l
Target: STP - Value: 463 mg/l

8.2. Exposure controls

Eye protection:
Use eye protection devices. Example: closed safety visors, goggles with side protection. Do not wear contact lenses.

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

Protection for hands:
Because of the synergetic effect of the substances contained in the formulation it is not possible to identify a unique material that can resist to their fusion. Multi - layer protective gloves can be suitable for mixes of substances. Pay attention to the data about grade of protection and of permeation rate furnished by the producer of the gloves about the substances listed on point 3 of this sheet.

Respiratory protection:
Use adequate protective respiratory equipment, e.g. A2 or A2P2 or A2P3.

Thermal Hazards:
None known

Environmental exposure controls:
None known

Appropriate engineering controls:
None

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:	< 1°C
Initial boiling point and boiling range:	> 55°C
Solid/gas flammability:	N.A.
Upper/lower flammability or explosive limits:	N.A.
Vapour density:	N.A.
Flash point:	< 23℃ (< 73.4 ℉)
Evaporation rate:	N.A.
Vapour pressure:	N.A.
Relative density:	1.0700 Kg/l a 20℃
Solubility in water:	N.A.
Solubility in oil:	N.A.
Partition coefficient (n-octanol/water):	N.A.
Auto-ignition temperature:	> 250°C
Decomposition temperature:	N.A.
Viscosity (typical value):	30.00 " Din cup # 6
Explosive properties:	N.A.
Oxidizing properties:	N.A.

9.2. Other information

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

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

No dangerous reaction is stored and used appropriately.

10.4. Conditions to avoid

Avoid accumulating electrostatic charge.

Vapours can form explosive mixtures with air.

10.5. Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

10.6. Hazardous decomposition products

vapours potentially dangerous to health may be released.

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:

xylene [isomer mixture] - CAS: 1330-20-7

a) acute toxicity:

Test: LD50 - Route: Inhalation - Species: Rat = 27 mg/l - Duration: 4h

Test: LD50 - Route: Oral - Species: Rat = 3523 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit = 12126 mg/kg

butanone - CAS: 78-93-3

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg

b) skin corrosion/irritation:

Test: Skin Corrosive - Species: Rabbit - Notes: moderatamente irritante

4-methylpentan-2-one; isobutyl methyl ketone - CAS: 108-10-1

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat = 23.29 g/m3

Test: LD50 - Route: Oral - Species: Rat = 2080 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat = 8.2 mg/l - Duration: 4h

Test: LD50 - Route: Skin - Species: Rabbit = 2000 mg/kg

Alkanes, C14-17, chloro - CAS: 85535-85-9

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 4000 mg/kg

Test: LD50 - Route: Skin - Species: Rat 4000 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat > 4.8 mg/m3 - Duration: 1h

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

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat > 21 mg/l - Duration: 4h

Test: LD50 - Route: Oral - Species: Rat 14112 mg/kg - Notes: Method OECD linee guide 402

ethylbenzene - CAS: 100-41-4

a) acute toxicity:
Test: LD50 - Route: Skin - Species: Rabbit = 15400 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat = 4000 Ppm - Duration: 4h
d) respiratory or skin sensitisation:
Test: Skin Sensitization - Route: Skin - Species: Cavia porcellus Negative
Hydrocarbons, C9, aromatics
a) acute toxicity:
Test: LC50 - Route: Oral - Species: Rat > 6193 mg/m3 - Duration: 4h
Test: LD50 - Route: Oral - Species: Rat = 3592 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit > 3160 mg/kg
ethanol; ethyl alcohol - CAS: 64-17-5
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat = 1501 mg/kg
Test: LD50 - Route: Inhalation - Species: Rat = 5.9 mg/l - Duration: 6h
toluene - CAS: 108-88-3
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat 636 mg/kg
methanol - CAS: 67-56-1
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat = 2769 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit = 17000 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat = 128.2 mg/l - Duration: 4h
2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve - 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 male 2.4 mg/l - Duration: 4h
Test: LC50 - Route: Inhalation Vapour - Species: Rat Female 2.2 mg/l - Duration: 4h
Test: LD50 - Route: Skin - Species: Rat 220 mg/kg
b) skin corrosion/irritation:
Test: Skin Irritant - Species: Rabbit Yes - Notes: Provoca irritazione cutanea
Test: Eye Irritant - Species: Rabbit Yes - Notes: provoca grave irritazione oculare
4-methylpentan-2-one; isobutyl methyl ketone - CAS: 108-10-1

May cause harm to breastfed babies.
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

12.1. Toxicity
Adopt good working practices, so that the product is not released into the environment.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
xylene [isomer mixture] - CAS: 1330-20-7
a) Aquatic acute toxicity:
Endpoint: EC50 - Species: Daphnia = 1 mg/l - Duration h: 48
Endpoint: LC50 - Species: Fish = 3.2 mg/l - Duration h: 96
Endpoint: LC50 - Species: Algae = 2.6 mg/l - Duration h: 73
4-methylpentan-2-one; isobutyl methyl ketone - CAS: 108-10-1
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia > 100 mg/l - Duration h: 48
Endpoint: EC50 - Species: Algae > 100 mg/l
Alkanes, C14-17, chloro - CAS: 85535-85-9
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish > 5000 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia 0.006 mg/l - Duration h: 48
Endpoint: NOEC - Species: Fish > 125 mg/l - Duration h: 336
Endpoint: NOEC - Species: Algae 130 mg/l - Duration h: 672
n-butyl acetate - CAS: 123-86-4
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 64 mg/l - Duration h: 48
Endpoint: EC50 - Species: Daphnia = 73 mg/l - Duration h: 24
Endpoint: EC50 - Species: Algae = 674 mg/l - Duration h: 72

ethylbenzene - CAS: 100-41-4
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 42.3 mg/l - Duration h: 96
Hydrocarbons, C9, aromatics
a) Aquatic acute toxicity:
Endpoint: EC50 - Species: Daphnia = 3.2 mg/l - Duration h: 48
Endpoint: LC50 - Species: Fish = 9.2 mg/l - Duration h: 96
ethanol; ethyl alcohol - CAS: 64-17-5
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 1300 mg/l
Endpoint: EC50 - Species: Algae = 275 mg/l - Duration h: 48
b) Aquatic chronic toxicity:
Endpoint: NOEC - Species: Algae = 3200 mg/l - Notes: 5g
toluene - CAS: 108-88-3
a) Aquatic acute toxicity:
Endpoint: EC50 - Species: Algae = 12500 Ppm - Duration h: 72
Endpoint: EC50 - Species: Algae > 433 Ppm - Duration h: 96
b) Aquatic chronic toxicity:
Endpoint: NOEC - Species: Daphnia = 1000 Ppm - Duration h: 504
methanol - CAS: 67-56-1
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 15400 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia > 10000 mg/l - Duration h: 48
2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve - CAS: 111-76-2
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 1490 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia = 1000 mg/l - Duration h: 24
c) Bacteria toxicity:
Endpoint: EC50 - Species: Active mud > 700 mg/l - Duration h: 16

12.2. Persistence and degradability
None known
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 known

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.
Where applicable, refer to the following regulatory provisions : 91/156/EEC, 91/689/EEC, 94/62/EC and subsequent amendments.

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

14.3. Transport hazard class(es)

ADR-Class:	3
ADR-Label:	3
ADR - Hazard identification number:	33
IATA-Class:	3
IATA-Label:	3
IMDG-Class:	3

14.4. Packing group

ADR-Packing Group:	II
IATA-Packing group:	II
IMDG-Packing group:	II

14.5. Environmental hazards

Marine pollutant:	Marine pollutant
Most important toxic component:	Alkanes, C14-17, chloro

14.6. Special precautions for user

ADR-Tunnel Restriction Code:	2 (D/E)
IATA-Passenger Aircraft:	353
IATA-Cargo Aircraft:	364
IMDG-Technical name:	PAINT (including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)
IMDG-EMS:	FE , SE

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No

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. 453/2010 (Annex II)
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)

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 82/501/EEC ('Activities linked to risks of serious accidents') and subsequent amendments.
Regulation (EC) nr 648/2004 (detergents).
Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work.

1999/13/EC (VOC directive)

Directive 1999/13/CE

Total Volatile Organic Compounds (typical value):	55 %	
Total Volatile Organic Carbon (typical value):		42.64 %
Total solids content:	44.1 - 45.9 %	

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

N.A.

15.2. Chemical safety assessment

No

SECTION 16: Other information

Text of phrases referred to under heading 3:

H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H315 Causes skin irritation.
H312 Harmful in contact with skin.
H332 Harmful if inhaled.
H225 Highly flammable liquid and vapour.
H336 May cause drowsiness or dizziness.
EUH066 Repeated exposure may cause skin dryness or cracking.
H362 May cause harm to breast-fed children.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H361 Suspected of damaging fertility or the unborn child.
H370 Causes damage to organs.
H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H331 Toxic if inhaled.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.

Paragraphs modified from the previous revision:

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

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 - Eighth Edition - Van Nostrand Reinold
ACGIH - Threshold Limit Values - 2004 edition

RESTRICTED TO PROFESSIONAL USERS
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.

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