

Safety Data Sheet

OPP053 - White PU Matt topcoat








Safety Data Sheet dated 18/7/2018, version 53

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

- 1.1. Product identifier
Mixture identification:
Trade name: White PU Matt topcoat
Trade code: OPP053
- 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.
 Warning, STOT SE 3, May cause respiratory irritation.
 Warning, STOT RE 2, May cause damage to organs through prolonged or repeated exposure.
- Adverse physicochemical, human health and environmental effects:
No other hazards known

- 2.2. Label elements
Hazard pictograms:



- Danger
Hazard statements:
H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
- Precautionary statements:
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240 Ground and bond container and receiving equipment.
P243 Take action to prevent static discharges.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash your face, hands and every exposed part thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P370+P378 In case of fire: Use CO2, Foam, Chemical powders to extinguish.
P403+P235 Store in a well-ventilated place. Keep cool.
- Special Provisions:
None
- Contains
xylene [isomer mixture]
Fatty acids, C18-unsatd., trimers, compds. with 9-octadecen-1-amine,(Z9)-: May produce an allergic reaction.
Fatty acids, C18-unsatd., trimers, compds. with oleylamine: May produce an allergic reaction.
- Special provisions according to Annex XVII of REACH and subsequent amendments:
None
- 2.3. Other hazards

Safety Data Sheet

OPP053 - White PU Matt topcoat

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 the CLP regulation and related classification:

- >= 25% - < 48% 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
- >= 5% - < 7% 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
 - ⚠ 3.9/2 STOT RE 2 H373
 - ⚠ 3.10/1 Asp. Tox. 1 H304
- >= 1% - < 2% 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
- >= 1% - < 2% 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
- >= 1% - < 2% ethyl acetate
REACH No.: 01-2119475103-46-xxxx, Index number: 607-022-00-5, CAS: 141-78-6, EC: 205-500-4
- ⚠ 2.6/2 Flam. Liq. 2 H225
 - ⚠ 3.3/2 Eye Irrit. 2 H319
 - ⚠ 3.8/3 STOT SE 3 H336
- EUH066
- >= 0.1% - < 0.2% 2-methoxy-1-methylethyl acetate
REACH No.: 01-2119475791-29-xxxx, Index number: 607-195-00-7, CAS: 108-65-6, EC: 203-603-9
- ⚠ 2.6/3 Flam. Liq. 3 H226
- >= 0.1% - < 0.2% Fatty acids, C18-unsatd., trimers, compds. with 9-octadecen-1-amine,(Z9)-
REACH No.: 01-2119971821-33-xxxx, CAS: 147900-93-4, EC: 604-612-4
- ⚠ 3.1/4/Oral Acute Tox. 4 H302
 - ⚠ 3.9/2 STOT RE 2 H373
 - ⚠ 4.1/C2 Aquatic Chronic 2 H411
 - ⚠ 3.4.2/1 Skin Sens. 1 H317
- >= 0.06% - < 0.1% Fatty acids, C18-unsatd., trimers, compds. with oleylamine
REACH No.: 01-2119974148-28-xxxx, CAS: 85711-55-3, EC: 288-315-1
- ⚠ 3.3/1 Eye Dam. 1 H318
 - ⚠ 3.4.2/1A Skin Sens. 1A H317
 - ⚠ 3.9/2 STOT RE 2 H373
- >= 0.05% - < 0.06% 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



Safety Data Sheet

OPP053 - White PU Matt topcoat

>= 0.0015% - < 0.05% 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

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 ophthalmologist 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 CO₂, Foam, Chemical powders 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

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.

Safety Data Sheet

OPP053 - White PU Matt topcoat

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.
 Contaminated 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

Always keep in a well ventilated place.
 Store at below 30 °C. Keep away from unguarded flame 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)) - TWA(8h): 221 mg/m³, 50 ppm - STEL: 442 mg/m³, 100 ppm - Behaviour: Binding - Notes: pelle
 EU - TWA(8h): 221 mg/m³, 50 ppm - STEL: 442 mg/m³, 100 ppm - Notes: Skin
 ACGIH - TWA(8h): 100 ppm - STEL: 150 ppm - Notes: A4, BEI - URT and eye irr, CNS impair

ethylbenzene - CAS: 100-41-4
 (OEL (IT)) - TWA(8h): 442 mg/m³, 100 ppm - STEL: 884 mg/m³, 200 ppm - Behaviour: Binding - Notes: pelle
 EU - TWA(8h): 442 mg/m³, 100 ppm - STEL: 884 mg/m³, 200 ppm - Notes: Skin
 ACGIH - TWA(8h): 20 ppm - Notes: A3, BEI - URT irr, kidney dam (nephropathy), cochlear impair

n-butyl acetate - CAS: 123-86-4
 TWA (Italia) - TWA: 150 ppm - STEL: 200 ppm
 ACGIH - TWA: 150 ppm - STEL: 200 ppm - Notes: Eye and URT irr

toluene - CAS: 108-88-3
 (OEL (IT)) - TWA(8h): 192 mg/m³, 50 ppm - Behaviour: Binding - Notes: Pelle
 EU - TWA(8h): 192 mg/m³, 50 ppm - STEL: 384 mg/m³, 100 ppm - Notes: Skin
 ACGIH - TWA(8h): 20 ppm - Notes: A4, BEI - Visual impair, female repro, pregnancy loss

ethyl acetate - CAS: 141-78-6
 (OEL (IT)) - TWA: 734 mg/m³, 200 ppm - STEL: 1469 mg/m³, 400 ppm
 ACGIH - TWA(8h): 400 ppm - Notes: URT and eye irr
 EU - TWA: 734 mg/m³, 200 ppm - STEL: 1469 mg/m³, 400 ppm

2-methoxy-1-methylethyl acetate - CAS: 108-65-6
 (OEL (IT)) - TWA(8h): 275 mg/m³, 50 ppm - STEL: 550 mg/m³, 100 ppm - Behaviour: Binding - Notes: Pelle
 EU - TWA(8h): 275 mg/m³, 50 ppm - STEL: 550 mg/m³, 100 ppm - Notes: Skin

methanol - CAS: 67-56-1
 (OEL (IT)) - TWA(8h): 260 mg/m³, 200 ppm - Behaviour: Binding - Notes: Pelle
 EU - TWA(8h): 260 mg/m³, 200 ppm - Notes: Skin
 ACGIH - TWA(8h): 200 ppm - STEL: 250 ppm - Notes: Skin, BEI - Headache, eye dam, dizziness, nausea

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

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: 1872 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects
 Consumer: 12.5 mg/Kg-bw/day - Exposure: Human Oral - Frequency: Long Term, systemic effects

ethylbenzene - CAS: 100-41-4
 Worker Industry: 180 mg/kg/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects
 Worker Industry: 293 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects
 Worker Industry: 77 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

n-butyl acetate - CAS: 123-86-4
 Worker Professional: 600 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects
 Worker Professional: 300 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects
 Worker Professional: 11 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
 Worker Professional: 11 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects
 Consumer: 300 mg/kg - Exposure: Human Inhalation - Frequency: Short Term, local effects
 Consumer: 35.7 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects
 Consumer: 6 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects
 Consumer: 2 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
 Consumer: 2 mg/kg - Exposure: Human Oral - Frequency: Short Term, systemic effects

toluene - CAS: 108-88-3
 Consumer: 226 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Safety Data Sheet

OPP053 - White PU Matt topcoat

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
 Worker Industry: 384 mg/kg/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects
 Worker Industry: 384 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
 Worker Industry: 192 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
 ethyl acetate - CAS: 141-78-6
 Worker Industry: 1468 mg/m³ - Consumer: 734 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
 Worker Industry: 1468 ppm - Exposure: Human Inhalation - Frequency: Short Term (acute)
 Worker Industry: 63 mg/Kg-bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects
 Worker Industry: 734 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects
 Worker Industry: 734 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
 Consumer: 4.5 mg/Kg-bw/day - Exposure: Human Oral - Frequency: Long Term, systemic effects
 Consumer: 734 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term (acute)
 Consumer: 734 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
 Consumer: 37 mg/Kg-bw/day - Exposure: Human Dermal - Frequency: Long Term, local effects
 Consumer: 367 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects
 Consumer: 367 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
 2-methoxy-1-methylethyl acetate - CAS: 108-65-6
 Worker Professional: 153.5 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
 Worker Professional: 275 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
 Consumer: 54.8 mg/kg/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects
 Consumer: 33 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
 Consumer: 1.67 mg/kg/day - Exposure: Human Oral - Frequency: Long Term, systemic effects
 Fatty acids, C18-unsatd., trimers, compds. with 9-octadecen-1-amine,(Z9)- - CAS: 147900-93-4
 Worker Industry: 0.024 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
 Consumer: 0.012 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
 Consumer: 0.012 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
 Fatty acids, C18-unsatd., trimers, compds. with oleylamine - CAS: 85711-55-3
 Worker Industry: 0.024 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
 Consumer: 0.012 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
 Consumer: 0.012 mg/kg - 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
 2,6-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
 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
 ethylbenzene - CAS: 100-41-4
 Target: Fresh Water - Value: 0.1 mg/l
 Target: Marine water - Value: 0.01 mg/l
 Target: Marine water sediments - Value: 13.7 mg/l
 Target: Freshwater sediments - Value: 13.7 mg/l
 Target: occasional emission - Value: 0.1 mg/l
 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
 Target: STP - Value: 35.6 mg/l
 toluene - CAS: 108-88-3
 Target: Fresh Water - Value: 0.68 mg/l
 Target: Marine water - Value: 0.68 mg/l

Safety Data Sheet

OPP053 - White PU Matt topcoat

Target: Soil (agricultural) - Value: 2.89 mg/kg
 Target: Marine water sediments - Value: 16.39 mg/l
 Target: Freshwater sediments - Value: 16.39 mg/l
 Target: STP - Value: 13.61 mg/l
 ethyl acetate - CAS: 141-78-6
 Target: Fresh Water - Value: 0.26 mg/l
 Target: Marine water - Value: 0.026 mg/l
 Target: Freshwater sediments - Value: 1.25 mg/kg
 Target: Marine water sediments - Value: 0.125 mg/kg
 Target: Soil (agricultural) - Value: 0.24 mg/kg
 Target: orally (secondary poisoning) - Value: 200 mg/kg - Notes:: Dietetico
 Target: STP - Value: 650 mg/l
 2-methoxy-1-methylethyl acetate - CAS: 108-65-6
 Target: Fresh Water - Value: 0.635 mg/l
 Target: Marine water - Value: 0.0635 mg/l
 Target: Marine water sediments - Value: 0.329 mg/kg - Notes:: dry
 Target: Freshwater sediments - Value: 3.29 mg/kg - Notes:: dry
 Target: Soil (agricultural) - Value: 0.29 mg/kg - Notes:: dry
 Target: STP - Value: 100 mg/l
 Fatty acids, C18-unsatd., trimers, compds. with 9-octadecen-1-amine,(Z9) - CAS: 147900-93-4
 Target: Fresh Water - Value: 0.006 mg/l
 Target: Marine water - Value: 0.0006 mg/l
 Target: Freshwater sediments - Value: 2.46 mg/kg
 Target: Marine water sediments - Value: 0.25 mg/kg
 Target: Soil (agricultural) - Value: 0.28 mg/kg
 Target: orally (secondary poisoning) - Value: 0.47 mg/kg
 Fatty acids, C18-unsatd., trimers, compds. with oleylamine - CAS: 85711-55-3
 Target: Food chain - Value: 0.47 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
 2,6-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

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°C (< 73.4 °F)
Evaporation rate:	N.A.
Vapour pressure:	N.A.

Safety Data Sheet

OPP053 - White PU Matt topcoat

Relative density:	1.2700 Kg/l a 20°C
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):	120.00 " Din cup # 4
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 product:
 - N.A.
 - Toxicological information of the main substances found in the product:
 - 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
 - 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
 - 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 = 10736 mg/kg - Notes: Method OECD linee guide 402
 - Test: LD50 - Route: Skin - Species: Rabbit > 14000 mg/kg
 - toluene - CAS: 108-88-3
 - a) acute toxicity:
 - Test: LD50 - Route: Oral - Species: Rat 5000 mg/kg - Duration: 24h
 - Test: LD50 - Route: Skin - Species: Rabbit 12267 mg/kg
 - Test: LC50 - Route: Inhalation - Species: Rat 25.7 mg/l - Duration: 4h
 - ethyl acetate - CAS: 141-78-6
 - a) acute toxicity:
 - Test: LD50 - Route: Skin - Species: Rabbit > 20000 mg/kg
 - Test: LD50 - Route: Oral - Species: Rat = 5620 mg/kg
 - Test: LC50 - Route: Inhalation - Species: Rat > 29.3 mg/l - Duration: 4h
 - Test: LD50 - Route: Oral - Species: Rabbit = 4934 mg/kg body weight
 - b) skin corrosion/irritation:
 - Test: Skin Irritant - Route: Skin - Species: Rabbit Negative
 - e) germ cell mutagenicity:
 - Test: Genotoxicity Negative
 - j) aspiration hazard:
 - Test: Respiratory Tract Corrosive - Route: Inhalation Positive
 - 2-methoxy-1-methylethyl acetate - CAS: 108-65-6
 - a) acute toxicity:
 - Test: LD50 - Route: Oral - Species: Rat = 8532 mg/kg
 - Test: LC50 - Route: Skin - Species: Rat > 5000 mg/kg

Safety Data Sheet

OPP053 - White PU Matt topcoat

- Test: LC50 - Route: Inhalation Mist - Species: Rat > 23.8 mg/l - Duration: 6h
- b) skin corrosion/irritation:
 - Test: Skin Irritant - Route: Skin - Species: Rabbit Negative
- c) serious eye damage/irritation:
 - Test: Eye Irritant - Species: Rabbit Negative
- d) respiratory or skin sensitisation:
 - Test: Skin Sensitization - Route: Skin - Species: Cavia porcellus Negative
- Fatty acids, C18-unsatd., trimers, compds. with 9-octadecen-1-amine,(Z9) - CAS: 147900-93-4
- a) acute toxicity:
 - Test: LD50 - Route: Oral - Species: Rat > 1570 mg/kg
- Fatty acids, C18-unsatd., trimers, compds. with oleylamine - CAS: 85711-55-3
- a) acute toxicity:
 - Test: LD50 - Route: Oral - Species: Rat Female > 2000 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

If not differently specified, the information required in Regulation (EU)2015/830 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.
- 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
- ethylbenzene - CAS: 100-41-4
- a) Aquatic acute toxicity:
 - Endpoint: LC50 - Species: Fish = 42.3 mg/l - Duration h: 96
- 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
- toluene - CAS: 108-88-3
- a) Aquatic acute toxicity:
 - Endpoint: LC50 - Species: Fish = 5.5 ml/l - Duration h: 96
 - Endpoint: EC50 - Species: Algae > 134 ml/l - Duration h: 72
- b) Aquatic chronic toxicity:
 - Endpoint: EC50 - Species: Daphnia = 3.78 mg/l - Duration h: 48
- ethyl acetate - CAS: 141-78-6
- a) Aquatic acute toxicity:
 - Endpoint: LC50 - Species: Fish = 454.7 mg/l - Duration h: 96
 - Endpoint: EC50 - Species: Daphnia = 154 mg/l - Duration h: 48
 - Endpoint: EC50 - Species: Algae = 3300 mg/l - Duration h: 48
- b) Aquatic chronic toxicity:
 - Endpoint: NOEC - Species: Algae > 100 mg/l - Duration h: 72
- 2-methoxy-1-methylethyl acetate - CAS: 108-65-6
- a) Aquatic acute toxicity:
 - Endpoint: LC50 - Species: Fish > 100 ml/l - Duration h: 96 - Notes: Method OECD linee guide 203
 - Endpoint: EC50 - Species: Daphnia > 500 mg/l - Duration h: 48 - Notes: Method Direttiva 67/548CEE allegato V,C.2
 - Endpoint: ErC50 - Species: Algae > 1000 mg/l - Duration h: 72 - Notes: Method OECD TG 209
- Fatty acids, C18-unsatd., trimers, compds. with 9-octadecen-1-amine,(Z9) - CAS: 147900-93-4
- a) Aquatic acute toxicity:
 - Endpoint: LL50 - Species: Fish > 100 mg/l - Duration h: 96
 - Endpoint: EL50 - Species: Daphnia > 100 mg/l - Duration h: 48
 - Endpoint: ErC50 - Species: Algae = 7.89 mg/l - Duration h: 72
- Fatty acids, C18-unsatd., trimers, compds. with oleylamine - CAS: 85711-55-3
- a) Aquatic acute toxicity:
 - Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 96
 - Endpoint: EC50 - Species: Daphnia = 15.2 mg/l - Duration h: 48



Safety Data Sheet

OPP053 - White PU Matt topcoat

- Endpoint: ErC50 - Species: Algae = 7.43 mg/l - Duration h: 72
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
- 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
- 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, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound)
IMDG-EMS: F-E , S-E
- 14.7. Transport in bulk according to Annex II of Marpol 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) 2015/830
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)



Safety Data Sheet

OPP053 - White PU Matt topcoat

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)

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):	39 %
Total Volatile Organic Carbon (typical value):	33.63 %
Total solids content:	59.7 - 62.1 %
Total Volatile Organic Compounds (typical value):	495.3 gr/l

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.

H361 Suspected of damaging fertility or the unborn child.

H302 Harmful if swallowed.

H411 Toxic to aquatic life with long lasting effects.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H370 Causes damage to organs.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H331 Toxic if inhaled.

Paragraphs modified from the previous revision:

SECTION 11: Toxicological 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 - 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.



Safety Data Sheet

OPP053 - White PU Matt topcoat

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.:	

End of Safety Data Sheet

Safety Data Sheet

OPP053 - White PU Matt topcoat

Label model

OPP053
White PU Matt topcoat

Hazard pictograms:

Danger

Hazard statements:

- H225 Highly flammable liquid and vapour.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements:

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P240 Ground and bond container and receiving equipment.
- P243 Take action to prevent static discharges.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P264 Wash your face, hands and every exposed part thoroughly after handling.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P370+P378 In case of fire: Use CO₂, Foam, Chemical powders to extinguish.
- P403+P235 Store in a well-ventilated place. Keep cool.

Special Provisions:

None

Contains

- xylene [isomer mixture]
- Fatty acids, C18-unsatd., trimers, compds. with 9-octadecen-1-amine,(Z9)-: May produce an allergic reaction.
- Fatty acids, C18-unsatd., trimers, compds. with oleylamine: May produce an allergic reaction.



Quantity:

Company: