

# Safety Data Sheet



## LBP578 LAKPRIMER Fondo PU bianco - PU white primer

Safety Data Sheet dated 3/14/2018, version 1

### 1. IDENTIFICATION

Product identifier

Mixture identification:

Trade name: LAKPRIMER Fondo PU bianco - PU white primer

Other means of identification:

Trade code: LBP578

Recommended use of the chemical and restrictions on use

Recommended use:

Industrial and professional uses (SU3 - SU22)

Varnish

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company:

NUOVA S.I.V.A.M. SpA - Via Monviso, 10 - 20010 BAREGGIO (MI) - Tel. +39 02 90304.1

Importer:

Quincaillerie Richelieu Ltée/Richelieu Hardware Ltd.

7900 Henri-Bourassa Blvd. W.

Montreal, Quebec, Canada, H4S 1V4

Tel:+1-860-529-7704

Distributor:

Quincaillerie Richelieu Ltée/Richelieu Hardware Ltd.

7900 Henri-Bourassa Blvd. W.

Montreal, Quebec, Canada, H4S 1V4

Tel:+1-860-529-7704

Competent person responsible for the safety data sheet:

msds@sivam.it






Emergency phone number

NUOVA S.I.V.A.M. SpA - Tel. +39 02 90304.1 (Monday - Friday 8.00 - 15.00)

Poison Centre - Ospedale di Niguarda - Milan - Tel. +39 02 66101029 (24 h)

### 2. HAZARD(S) IDENTIFICATION

Classification of the chemical

-  Danger, Flam. Liq. 2, Highly flammable liquid and vapour.
-  Warning, Skin Irrit. 2, Causes skin irritation.
-  Warning, Eye Irrit. 2A, Causes serious eye irritation.
-  Warning, Repr. 2, Suspected of damaging fertility or the unborn child.
-  Warning, STOT RE 2, May cause damage to organs through prolonged or repeated exposure.

Label elements

Hazard pictograms:



Danger

Hazard statements:

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H361 Suspected of damaging fertility or the unborn child.

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

Precautionary statements:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash ... Thoroughly after handling.

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

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P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P308+P313 IF exposed or concerned: Get medical advice/attention.  
 P314 Get medical advice/attention if you feel unwell.  
 P321 Specific treatment (see ... On this label).  
 P332+P313 If skin irritation occurs: Get medical advice/attention.  
 P337+P313 If eye irritation persists: Get medical advice/attention.  
 P362+P364 Take off contaminated clothing and wash it before reuse.  
 P370+P378 In case of fire, use alcohol resistant foam, dry chemical, CO<sub>2</sub>, water spray. Do not use water jet.  
 P403+P235 Store in a well-ventilated place. Keep cool.  
 P405 Store locked up.  
 P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

None

Hazards not otherwise classified identified during the classification process:

None

Ingredient(s) with unknown acute toxicity:

None.

Additional classification information

NFPA rating:



HMIS rating:

HEALTH	/ 2
FLAMMABILITY	3
PHYSICAL HAZARD	1
PERSONAL PROTECTION	B

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

N.A.

Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

Qty	Name	Ident. Number	Classification
>= 12.5% - < 15%	xylene [4]	Index number: 601-022-00-9 CAS: 1330-20-7 EC: 215-535-7 REACH No.: 01-2119488216-32	<ul style="list-style-type: none"> <li>⚠ B.6/3 Flam. Liq. 3 H226</li> <li>⚠ A.1/4/Dermal Acute Tox. 4 H312</li> <li>⚠ A.1/4/Inhal Acute Tox. 4 H332</li> <li>⚠ A.2/2 Skin Irrit. 2 H315</li> <li>⚠ A.3/2A Eye Irrit. 2A H319</li> <li>⚠ A.8/3 STOT SE 3 H335</li> <li>⚠ A.9/2 STOT RE 2 H373</li> <li>⚠ A.10/1 Asp. Tox. 1 H304</li> </ul>
>= 10% - < 12.5%	Titanium Dioxide	CAS: 13463-67-7	The product is not classified as dangerous according to OSHA Hazard Communication

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		EC: REACH No.:	236-675-5 01-2119489379-17	Standard (29 CFR 1910.1200).
>= 7% - < 10%	toluene	Index number: CAS: EC: REACH No.:	601-021-00-3 108-88-3 203-625-9 01-2119471310-51	⚠ B.6/2 Flam. Liq. 2 H225 ⚠ A.10/1 Asp. Tox. 1 H304 ⚠ A.2/2 Skin Irrit. 2 H315 ⚠ A.7/2 Unst. Expl. ⚠ A.8/3 STOT SE 3 H336 ⚠ A.9/2 STOT RE 2 H373
>= 1% - < 3%	isobutyl acetate [2]	Index number: CAS: EC: REACH No.:	607-026-00-7 110-19-0 203-745-1 01-2119488971-22	⚠ B.6/2 Flam. Liq. 2 H225 ⚠ A.8/3 STOT SE 3 H336
>= 1% - < 3%	ethylbenzene	Index number: CAS: EC: REACH No.:	601-023-00-4 100-41-4 202-849-4 01-2119489370-35	⚠ B.6/2 Flam. Liq. 2 H225 US-HAE/C3 Aquatic Chronic 3 H412 ⚠ A.1/4/Inhal Acute Tox. 4 H332 ⚠ A.9/2 STOT RE 2 H373 ⚠ A.10/1 Asp. Tox. 1 H304
423 ppm	Fatty acids, C-18, unsatd. trimers, compd. with 9-octadecen-1-amine, (Z)	CAS:	147900-93-4	⚠ A.1/4/Oral Acute Tox. 4 H302 ⚠ US-HAE/C2 Aquatic Chronic 2 H411 ⚠ A.2/2 Skin Irrit. 2 H315 ⚠ A.4.2/1A Skin Sens. 1A H317 ⚠ A.9/2 STOT RE 2 H373
282 ppm	Fatty acids, tall-oil, compds. with oleylamine	CAS: EC: REACH No.:	85711-55-3 288-315-1 01-2119974148-28	⚠ A.2/2 Skin Irrit. 2 H315 ⚠ A.3/1 Eye Dam. 1 H318 ⚠ A.4.2/1A Skin Sens. 1A H317 ⚠ A.9/2 STOT RE 2 H373

#### 4. FIRST-AID MEASURES

Description of necessary measures

In case of skin contact:

Immediately take off all contaminated clothing.  
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 induce vomiting.

In case of Inhalation:

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

Most important symptoms/effects, acute and delayed

None

Indication of 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

#### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

In case of fire, use alcohol resistant foam, dry chemical, CO<sub>2</sub>, water spray. Do not use water jet.

Unsuitable extinguishing media:

None in particular.

Specific hazards arising from the chemical

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

Hazardous combustion products:

None

Explosive properties:

N.D. in volume

Oxidizing properties:

N.D.

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Special protective equipment and precautions for fire-fighters  
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.

#### 6. ACCIDENTAL RELEASE MEASURES

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.  
Methods and materials for containment and cleaning up  
Wash with plenty of water.

#### 7. HANDLING AND STORAGE

Precautions for safe handling  
Avoid contact with skin and eyes, inhalation of vapours and mists.  
Exercise the greatest care when handling or opening the container.  
Do not use on extensive surface areas in premises where there are occupants.  
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.  
Conditions for safe storage, including any incompatibilities  
Always keep in a well ventilated place.  
Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.  
Avoid accumulating electrostatic charge.  
Keep away from food, drink and feed.  
Incompatible materials:  
None in particular.  
Instructions as regards storage premises:  
Cool and adequately ventilated.  
Safety electric system.  
Storage temperature:  
Store at ambient temperature.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters  
xylene [4] - CAS: 1330-20-7  
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  
Titanium Dioxide - CAS: 13463-67-7  
ACGIH - TWA(8h): 10 mg/m3 - Notes: A4 - LRT irr  
toluene - CAS: 108-88-3  
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  
isobutyl acetate [2] - CAS: 110-19-0  
ACGIH - TWA(8h): 50 ppm - STEL: 150 ppm - Notes: Eye and URT irr  
ethylbenzene - CAS: 100-41-4  
EU - TWA(8h): 442 mg/m3, 100 ppm - STEL: 884 mg/m3, 200 ppm - Notes: Skin  
ACGIH - TWA(8h): 20 ppm - Notes: A3, BEI - URT irr, kidney dam (nephropathy), cochlear impair  
DNEL Exposure Limit Values  
xylene [4] - CAS: 1330-20-7  
Worker Industry: 289 mg/m3 - Worker Professional: 289 mg/m3 - Consumer: 174 mg/m3 - Exposure: Human  
Inhalation - Frequency: Short Term, systemic effects  
Worker Industry: 77 mg/m3 - Worker Professional: 77 mg/m3 - Consumer: 14.8 mg/m3 - Exposure: Human  
Inhalation - Frequency: Long Term, systemic effects  
Worker Industry: 180 mg/kg - Worker Professional: 180 mg/kg - Consumer: 108 mg/kg - Exposure: Human Dermal  
- Frequency: Long Term, systemic effects  
Consumer: 1.6 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects  
Titanium Dioxide - CAS: 13463-67-7  
Worker Industry: 10 mg/m3 - Worker Professional: 10 mg/m3 - Exposure: Human Inhalation - Frequency: Long  
Term, local effects

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Consumer: 700 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects  
 toluene - CAS: 108-88-3  
 Worker Industry: 384 mg/kg - Worker Professional: 384 mg/kg - Consumer: 226 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects  
 Worker Industry: 192 mg/m<sup>3</sup> - Worker Professional: 192 mg/m<sup>3</sup> - Consumer: 56.5 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects  
 Consumer: 8.13 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects  
 isobutyl acetate [2] - CAS: 110-19-0  
 Worker Industry: 300 mg/m<sup>3</sup> - Worker Professional: 300 mg/m<sup>3</sup> - Consumer: 35.7 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects  
 Worker Industry: 600 mg/m<sup>3</sup> - Worker Professional: 600 mg/m<sup>3</sup> - Consumer: 300 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, systemic effects  
 Worker Industry: 10 mg/kg - Worker Professional: 10 mg/kg - Consumer: 5 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects  
 Consumer: 5 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects  
 ethylbenzene - CAS: 100-41-4  
 Worker Industry: 180 mg/kg - Worker Professional: 180 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects  
 Worker Industry: 77 mg/m<sup>3</sup> - Worker Professional: 77 mg/m<sup>3</sup> - Consumer: 15 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects  
 Consumer: 1.6 mg/kg - Exposure: Human Oral - Frequency: Short Term, systemic effects

#### PNEC Exposure Limit Values

xylene [4] - CAS: 1330-20-7  
 Target: Fresh Water - Value: 0.32 mg/l  
 Target: Marine water - Value: 0.32 mg/l  
 Target: Intermittent emission - Value: 0.32 mg/l  
 Target: Freshwater sediments - Value: 12.46 mg/kg  
 Target: Marine water sediments - Value: 12.46 mg/kg  
 Target: Microorganisms in sewage treatments - Value: 6.58 mg/l  
 Target: Soil (agricultural) - Value: 2.31 mg/kg  
 Titanium Dioxide - CAS: 13463-67-7  
 Target: Fresh Water - Value: 0.127 mg/l  
 Target: Marine water - Value: 1 mg/l  
 Target: Intermittent emission - Value: 0.61 mg/l  
 Target: Freshwater sediments - Value: 1000 mg/kg  
 Target: Marine water sediments - Value: 100 mg/kg  
 Target: Microorganisms in sewage treatments - Value: 100 mg/l  
 Target: Soil (agricultural) - Value: 100 mg/kg  
 Target: Food chain - Value: 1667 mg/kg  
 toluene - CAS: 108-88-3  
 Target: Fresh Water - Value: 0.68 mg/l  
 Target: Marine water - Value: 0.68 mg/l  
 Target: Intermittent emission - Value: 0.68 mg/l  
 Target: Freshwater sediments - Value: 16.39 mg/kg  
 Target: Marine water sediments - Value: 16.39 mg/kg  
 Target: Microorganisms in sewage treatments - Value: 13.61 mg/l  
 Target: Soil (agricultural) - Value: 2.89 mg/kg  
 isobutyl acetate [2] - CAS: 110-19-0  
 Target: Fresh Water - Value: 0.17 mg/l  
 Target: Marine water - Value: 0.017 mg/l  
 Target: Intermittent emission - Value: 0.34 mg/l  
 Target: Microorganisms in sewage treatments - Value: 200 mg/l  
 Target: Freshwater sediments - Value: 0.877 mg/kg  
 Target: Marine water sediments - Value: 0.0877 mg/kg  
 Target: Soil (agricultural) - Value: 0.0755 mg/kg  
 ethylbenzene - CAS: 100-41-4  
 Target: Fresh Water - Value: 0.1 mg/l  
 Target: Marine water - Value: 0.01 mg/l  
 Target: Freshwater sediments - Value: 13.7 mg/kg  
 Target: Soil (agricultural) - Value: 2.68 mg/kg  
 Target: Intermittent emission - Value: 0.1 mg/l  
 Target: Microorganisms in sewage treatments - Value: 9.6 mg/l

#### Appropriate engineering controls:

None

#### Individual protection measures

##### Eye protection:

Eye glasses with side protection. (EN166)

##### Protection for skin:

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

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Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber. (EN374)

Respiratory protection:

Use adequate protective respiratory equipment.

Thermal Hazards:

None

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#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour:	white fluid
Odour:	typical
Odour threshold:	N.D.
pH:	N.A.
Melting point / freezing point:	N.D. °C
Initial boiling point and boiling range:	> 110 °C
Solid/gas flammability:	N.A.
Upper/lower flammability or explosive limits:	6.7% - 1.3% Vol. (Toluene)
Vapour density:	> 1
Flash point:	> 4 °C
Evaporation rate:	N.D.
Vapour pressure:	N.D. (20 °C)
Relative density:	1.460 - 1.480
Solubility in water:	N.D.
Solubility in oil:	partial
Partition coefficient (n-octanol/water):	N.D.
Auto-ignition temperature:	> 300 °C
Decomposition temperature:	N.D. °C
Viscosity:	N.D.
Miscibility:	N.D.
Fat Solubility:	N.D.
Conductivity:	N.D.
Substance Groups relevant properties	N.A.

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#### 10. STABILITY AND REACTIVITY

Reactivity

It may generate dangerous reactions (See subsections below)

Chemical stability

It may generate dangerous reactions (See subsections below)

Possibility of hazardous reactions

It may catch fire on contact with oxidising mineral acids, and powerful oxidising agents.

Conditions to avoid

Avoid accumulating electrostatic charge.

Incompatible materials

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

Hazardous decomposition products

None.

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#### 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Toxicological information of the product:

LAKPRIMER Fondo PU bianco - PU white primer

a) acute toxicity

Not classified

No data available for the product

b) skin corrosion/irritation

The product is classified: Skin Irrit. 2 H315

c) serious eye damage/irritation

The product is classified: Eye Irrit. 2A H319

d) respiratory or skin sensitisation

Not classified

No data available for the product

e) germ cell mutagenicity

Not classified

No data available for the product

f) carcinogenicity

Not classified

No data available for the product

g) reproductive toxicity

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- The product is classified: Repr. 2 H361
- h) STOT-single exposure  
Not classified  
No data available for the product
- i) STOT-repeated exposure  
The product is classified: STOT RE 2 H373
- j) aspiration hazard  
Not classified  
No data available for the product
- Toxicological information of the main substances found in the product:
- xylene [4] - CAS: 1330-20-7
- a) acute toxicity:  
Test: LD50 - Route: Oral - Species: Rat = 3523 mg/kg  
Test: LD50 - Route: Oral - Species: Mouse = 5627 mg/kg  
Test: LC50 - Route: Inhalation - Species: Rat = 6700 Ppm - Duration: 4h  
Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg
- Titanium Dioxide - CAS: 13463-67-7
- a) acute toxicity:  
Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg - Source: OECD 425  
Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg  
Test: LC50 - Route: Inhalation - Species: Rat > 6.8 mg/l - Duration: 4h
- toluene - CAS: 108-88-3
- a) acute toxicity:  
Test: LD50 - Route: Oral - Species: Rat = 5580 mg/kg  
Test: LD50 - Route: Skin - Species: Rabbit = 12124 mg/kg  
Test: LC50 - Route: Inhalation - Species: Rat = 28.1 mg/l - Duration: 4h - Source: OECD 403
- b) skin corrosion/irritation:  
Test: Skin Irritant - Route: Skin - Species: Rabbit = 500 mg/kg - Source: OECD 404 - Notes: 24h
- isobutyl acetate [2] - CAS: 110-19-0
- a) acute toxicity:  
Test: LD50 - Route: Oral - Species: Rat = 13.4 g/kg - Source: OCSE 401  
Test: LD50 - Route: Oral - Species: Rabbit = 4.76 g/kg  
Test: LC50 - Route: Inhalation - Species: Rat > 23.4 mg/l - Duration: 4h - Source: OCSE 403  
Test: LD50 - Route: Skin - Species: Rabbit > 17.4 g/kg - Source: OCSE 402
- Fatty acids, C-18, unsatd. trimers, compd. with 9-octadecen-1-amine, (Z) - CAS: 147900-93-4
- a) acute toxicity:  
Test: LD50 - Route: Oral - Species: Rat > 1570 mg/kg
- Fatty acids, tall-oil, compds. with oleylamine - CAS: 85711-55-3
- a) acute toxicity:  
Test: LD50 - Route: Oral - Species: Rat > 2000 g/kg - Source: OECD 423
- xylene [4] - CAS: 1330-20-7  
Observations on human subjects.  
Effects following acute exposure: dermatitis, eczema, irritation to the eyes and to the respiratory tract, dizziness, headache, nausea, incoordination, excitability, narcosis, anaemia, and paraesthesia of the hands and feet.
- toluene - CAS: 108-88-3  
Effects following acute exposure:  
At 200 ppm: mild but definite decrease in co-ordination and in reaction time, fatigue, confusion, paraesthesia of the skin; the fatigue lasted over a number of hours together with mild insomnia.  
At 400 ppm: worsening of symptoms and mental confusion.

Substance(s) listed on the NTP report on Carcinogens:

None.

Substance(s) listed on the IARC Monographs:

xylene [4] - Group 3

Titanium Dioxide - Group 2B

toluene - Group 3

ethylbenzene - Group 2B.

Substance(s) listed as OSHA Carcinogen(s):

None.

Substance(s) listed as NIOSH Carcinogen(s):

Titanium Dioxide.

## 12. ECOLOGICAL INFORMATION

Ecotoxicity

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

LAKPRIMER Fondo PU bianco - PU white primer

Not classified for environmental hazards

No data available for the product

xylene [4] - CAS: 1330-20-7

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- a) Aquatic acute toxicity:
  - Endpoint: LC50 - Species: Fish = 2.6 mg/l - Duration h: 96
  - Endpoint: EC50 - Species: Algae = 4.3 mg/l - Duration h: 72
  - Endpoint: EC50 - Species: Daphnia = 1 mg/l - Duration h: 24
- b) Aquatic chronic toxicity:
  - Endpoint: NOEC - Species: Fish > 1.3 mg/l - Notes: 56d
  - Endpoint: NOEC - Species: Daphnia = 1.57 mg/l - Notes: 21d
- toluene - CAS: 108-88-3
  - a) Aquatic acute toxicity:
    - Endpoint: EC50 - Species: Algae = 134 mg/l - Duration h: 3
    - Endpoint: EC50 - Species: Daphnia = 3.78 mg/l - Duration h: 48
    - Endpoint: LC50 - Species: Fish = 5.5 mg/l - Duration h: 96
  - b) Aquatic chronic toxicity:
    - Endpoint: NOEC - Species: Algae = 10 mg/l - Duration h: 72
    - Endpoint: NOEC - Species: Daphnia = 0.74 mg/l - Notes: 7d
    - Endpoint: NOEC - Species: Fish = 1.39 mg/l - Notes: 40d
- isobutyl acetate [2] - CAS: 110-19-0
  - a) Aquatic acute toxicity:
    - Endpoint: EC50 - Species: Algae = 397 mg/l - Duration h: 72 - Notes: OCSE 201
    - Endpoint: EC50 - Species: Daphnia = 24.6 mg/l - Duration h: 48 - Notes: OCSE 202
    - Endpoint: LC50 - Species: Fish = 16.6 mg/l - Duration h: 96 - Notes: OCSE 203
  - b) Aquatic chronic toxicity:
    - Endpoint: NOEC - Species: Daphnia = 23.2 mg/l - Notes: OCSE 201 (21d)
- ethylbenzene - CAS: 100-41-4
  - a) Aquatic acute toxicity:
    - Endpoint: EC50 - Species: Daphnia = 2.4 mg/l - Duration h: 48
    - Endpoint: EC50 - Species: Algae = 4.6 mg/l - Duration h: 72
    - Endpoint: LC50 - Species: Fish = 4.2 mg/l - Duration h: 96
  - b) Aquatic chronic toxicity:
    - Endpoint: NOEC - Species: Daphnia = 0.96 mg/l - Duration h: 168
- Fatty acids, tall-oil, compds. with oleylamine - CAS: 85711-55-3
  - a) Aquatic acute toxicity:
    - Endpoint: EC50 - Species: Daphnia = 15.2 mg/l - Duration h: 48 - Notes: OECD TG 202
    - Endpoint: EC50 - Species: Algae = 7.4 mg/l - Duration h: 72 - Notes: OECD TG 201
    - Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 96 - Notes: OECD 203
- Persistence and degradability
  - xylene [4] - CAS: 1330-20-7
    - Biodegradability: Readily biodegradable - Test: N.A. - Duration h: N.A. - %: N.A. - Notes: N.A.
  - toluene - CAS: 108-88-3
    - Biodegradability: Readily biodegradable - Test: N.A. - Duration h: N.A. - %: N.A. - Notes: N.A.
  - isobutyl acetate [2] - CAS: 110-19-0
    - Biodegradability: Readily biodegradable - Test: N.A. - Duration h: N.A. - %: N.A. - Notes: N.A.
  - ethylbenzene - CAS: 100-41-4
    - Biodegradability: Readily biodegradable - Test: N.A. - Duration h: 28 days - %: 70-80 - Notes: N.A.
  - Fatty acids, C-18, unsatd. trimers, compd. with 9-octadecen-1-amine, (Z) - CAS: 147900-93-4
    - Biodegradability: Non-readily biodegradable - Test: N.A. - Duration h: N.A. - %: N.A. - Notes: N.A.
- Bioaccumulative potential
  - N.A.
- Mobility in soil
  - N.A.
- Other adverse effects
  - None

### 13. DISPOSAL CONSIDERATIONS

Waste treatment and disposal 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.

### 14. TRANSPORT INFORMATION



UN number

ADR-UN Number:

1263

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DOT number:	UN1263
IATA-UN Number:	1263
IMDG-UN Number:	1263
UN proper shipping name	
ADR-Shipping Name:	PAINT
DOT-Shipping Name:	Paint including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler and liquid lacquer base or Paint related material including paint thinning, drying, removing, or reducing compound
ADR-Technical Name:	Paint
IATA-Shipping Name:	PAINT
IATA-Technical name:	Paint
IMDG-Shipping Name:	PAINT
IMDG-Shipping name:	Paint
Transport hazard class(es)	
ADR-Class:	3
DOT Hazard Class:	3
ADR - Hazard identification number:	33
IATA-Class:	3
IATA-Label:	3
IMDG-Class:	3
IMDG-Class:	3
Packing group	
ADR-Packing Group:	II
DOT Packing group:	II
IATA-Packing group:	II
IMDG-Packing group:	II
Environmental hazards	
ADR-Environmental Pollutant:	No
IMDG-Marine pollutant:	No
Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)	
N.A.	
Special precautions	
Rail (RID):	3
DOT Special provisions:	149, 367, 383, B52, B131, IB2, T4, TP1, TP8, TP28
ADR-Subsidiary risks:	-
ADR-S.P.:	163 367 640D 650
ADR-Transport category (Tunnel restriction code):	2 (D/E)
IATA-Passenger Aircraft:	353
IATA-Subsidiary risks:	-
IATA-Cargo Aircraft:	364
IATA-S.P.:	A3 A72 A192
IATA-ERG:	3L
IMDG-EmS:	F-E , S-E
IMDG-Subsidiary risks:	-
IMDG-Stowage and handling:	Category A
IMDG-Segregation:	-

## 15. REGULATORY INFORMATION

### USA - Federal regulations

#### TSCA - Toxic Substances Control Act

TSCA inventory: all the components are listed on the TSCA inventory.

TSCA listed substances:

xylene [4] is listed in TSCA Section 8b

Titanium Dioxide is listed in TSCA Section 8b

toluene is listed in TSCA Section 8b, Section 8d HSDR, Section 8a - CAIR

isobutyl acetate [2] is listed in TSCA Section 8b

ethylbenzene is listed in TSCA Section 8b, Section 8d HSDR

Fatty acids, C-18, unsatd. trimers, compd. with 9-octadecen-1-amine, (Z) is listed in TSCA Section 8b

Fatty acids, tall-oil, compds. with oleylamine is listed in TSCA Section 8b.

#### SARA - Superfund Amendments and Reauthorization Act

Section 302 – Extremely Hazardous Substances: no substances listed.

Section 304 – Hazardous substances: xylene [4], toluene, isobutyl acetate [2], ethylbenzene.

Section 313 – Toxic chemical list: xylene [4], toluene, ethylbenzene.

#### CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA: xylene [4] - Reportable quantity: 100 pounds

toluene - Reportable quantity: 1000 pounds

isobutyl acetate [2] - Reportable quantity: 5000 pounds

ethylbenzene - Reportable quantity: 1000 pounds.

Reportable quantity for mixture: 676.0166073 pounds.

#### CAA - Clean Air Act

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CAA listed substances:

xylene [4] is listed in CAA Section 111, Section 112(b) - HAP, Section 112(b) - HON

toluene is listed in CAA Section 111, Section 112(b) - HAP, Section 112(b) - HON

isobutyl acetate [2] is listed in CAA Section 111

ethylbenzene is listed in CAA Section 111, Section 112(b) - HAP, Section 112(b) - HON.

CWA - Clean Water Act

CWA listed substances:

xylene [4] is listed in CWA Section 304, Section 311

toluene is listed in CWA Section 304, Section 307, Section 311, CWA Priority Pollutants

isobutyl acetate [2] is listed in CWA Section 311

ethylbenzene is listed in CWA Section 304, Section 307, Section 311, CWA Priority Pollutants.

USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:

Titanium Dioxide - Listed as carcinogen

toluene - Listed as reproductive toxicant

ethylbenzene - Listed as carcinogen.

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

xylene [4]

Titanium Dioxide

toluene

isobutyl acetate [2]

ethylbenzene.

New Jersey Right to know

Substance(s) listed under New Jersey Right to know:

xylene [4]

Titanium Dioxide

toluene

isobutyl acetate [2]

ethylbenzene.

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

xylene [4]

Titanium Dioxide

toluene

isobutyl acetate [2]

ethylbenzene.

Volatile Organic compounds - VOCs = 29.10 %

Volatile Organic compounds - VOCs = 430.72 g/l

Volatile CMR substances = 0.00 %

Organic Carbon - C = 0.25

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## 16. OTHER INFORMATION

Full text of phrases referred to in Section 3:

H226 Flammable liquid and vapour.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

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.

H304 May be fatal if swallowed and enters airways.

H225 Highly flammable liquid and vapour.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

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.

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Disclaimer:

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. The information relates only to the specific material and may not be valid for such material used in combination with any other material or in any process.

This Safety Data Sheet cancels and replaces any preceding release.

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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.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
HMIS:	Hazardous Materials Identification System
IARC:	International Agency for Research on Cancer
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.
NFPA:	National Fire Protection Association
NIOSH:	National Institute for Occupational Safety and Health
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average