Safety Data Sheet

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LFP406 CHROMOLACK 20 Finitura PU bianca - PU White top coat

Safety Data Sheet dated 12/10/2018, version 1

1. IDENTIFICATION

Product identifier

Mixture identification:

Trade name: CHROMOLACK 20 Finitura PU bianca - PU White top coat

Other means of identification:

Trade code: LFP406

Recommended use of the chemical and restrictions on use

Recommended use:

Industrial and professional uses (SU3 - SU22)

Varnish for wood

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

Warning, Flam. Liq. 3, 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 SE 3, May cause respiratory irritation.
Warning, STOT RE 2, May cause damage to organs through prolonged or repeated exposure.

Label elements

Hazard pictograms:

Warning

Hazard statements:

H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H361 Suspected of damaging fertility or the unborn child.
H335 May cause respiratory irritation.
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.
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.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash ... Thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
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.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.
P312 Call a POISON CENTER/doctor/... if you feel unwell.
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 alcool resistant foam, dry chemical, CO2, water spray. Do not use water jet.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/container in accordance with applicable regulations.

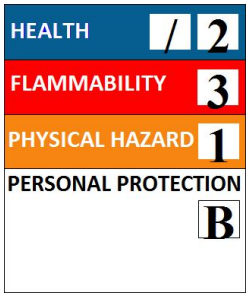
Special Provisions:
None

Hazards not otherwise classified identified during the classification process:
None

Ingredient(s) with unknown acute toxicity:
None.

Additional classification information
NFPA rating:

HMIS rating:



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
>= 30% - < 40%	Titanium Dioxide	CAS: EC: REACH No.:	13463-67-7 236-675-5 01-2119489379-17	The product is not classified as dangerous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).

>= 20% - < 25%	xylene [4]	Index number: CAS: EC: REACH No.:	601-022-00-9 1330-20-7 215-535-7 01-2119488216-32	B.6/3 Flam. Liq. 3 H226 A.1/4/Dermal Acute Tox. 4 H312 A.1/4/Inhal Acute Tox. 4 H332 A.2/2 Skin Irrit. 2 H315 A.3/2A Eye Irrit. 2A H319 A.8/3 STOT SE 3 H335 A.9/2 STOT RE 2 H373 A.10/1 Asp. Tox. 1 H304
>= 3% - < 5%	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
>= 1% - < 3%	4-methylpentan-2-one; isobutyl methyl ketone	Index number: CAS: EC: REACH No.:	606-004-00-4 108-10-1 203-550-1 01-2119473980-30	B.6/2 Flam. Liq. 2 H225 A.3/2A Eye Irrit. 2A H319 A.8/3 STOT SE 3 H335 A.1/4/Inhal Acute Tox. 4 H332
>= 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%	n-butyl acetate	Index number: CAS: EC: REACH No.:	607-025-00-1 123-86-4 204-658-1 01-2119485493-29	B.6/3 Flam. Liq. 3 H226 A.8/3 STOT SE 3 H336
>= 0.25% - < 0.5%	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

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 opthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do NOT induce vomiting.

In case of Inhalation:

In case of inhalation, consult a doctor immediately and show him packing or label.

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 alcool resistant foam, dry chemical, CO2, 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.

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.
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.
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.
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

Titanium Dioxide - CAS: 13463-67-7
ACGIH - TWA(8h): 10 mg/m3 - Notes: A4 - LRT irr

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

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

4-methylpentan-2-one; isobutyl methyl ketone - CAS: 108-10-1
EU - TWA(8h): 83 mg/m3, 20 ppm - STEL: 208 mg/m3, 50 ppm
ACGIH - TWA(8h): 20 ppm - STEL: 75 ppm - Notes: A3, BEI - URT irr, dizziness, headache

isobutyl acetate [2] - CAS: 110-19-0
ACGIH - TWA(8h): 50 ppm - STEL: 150 ppm - Notes: Eye and URT irr

n-butyl acetate - CAS: 123-86-4
ACGIH - TWA(8h): 50 ppm - STEL: 150 ppm - Notes: Eye and URT irr

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

DNEL Exposure Limit Values

Titanium Dioxide - CAS: 13463-67-7
- Worker Industry: 10 mg/m3 - Worker Professional: 10 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, local effects
- Consumer: 700 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

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

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/m3 - Worker Professional: 77 mg/m3 - Consumer: 15 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
- Consumer: 1.6 mg/kg - Exposure: Human Oral - Frequency: Short Term, systemic effects

4-methylpentan-2-one; isobutyl methyl ketone - CAS: 108-10-1
- Worker Industry: 83 mg/m3 - Worker Professional: 83 mg/m3 - Consumer: 14.7 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
- Worker Industry: 208 mg/m3 - Worker Professional: 208 mg/m3 - Consumer: 115.2 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
- Worker Industry: 83 mg/m3 - Worker Professional: 83 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, local effects
- Worker Industry: 208 mg/m3 - Worker Professional: 208 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, local effects
- Worker Industry: 11.8 mg/kg - Worker Professional: 11.8 mg/kg - Consumer: 4.2 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

isobutyl acetate [2] - CAS: 110-19-0
- Worker Industry: 300 mg/m3 - Worker Professional: 300 mg/m3 - Consumer: 35.7 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
- Worker Industry: 600 mg/m3 - Worker Professional: 600 mg/m3 - Consumer: 300 mg/m3 - 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

n-butyl acetate - CAS: 123-86-4
- Worker Industry: 960 mg/m3 - Worker Professional: 960 mg/m3 - Consumer: 859.7 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
- Worker Industry: 960 mg/m3 - Worker Professional: 960 mg/m3 - Consumer: 859.7 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, local effects
- Worker Industry: 480 mg/m3 - Worker Professional: 480 mg/m3 - Consumer: 102.34 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
- Worker Industry: 480 mg/m3 - Worker Professional: 480 mg/m3 - Consumer: 102.34 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, local 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/m3 - Worker Professional: 192 mg/m3 - Consumer: 56.5 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
- Consumer: 8.13 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

Titanium Dioxide - CAS: 13463-67-7
- Target: Fresh Water - Value: 0.184 mg/l
- Target: Marine water - Value: 0.0184 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

xylene [4] - CAS: 1330-20-7
- Target: Fresh Water - Value: 0.327 mg/l
- Target: Marine water - Value: 0.327 mg/l
- Target: Intermittent emission - Value: 0.327 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
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
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: Microorganisms in sewage treatments - Value: 27.5 mg/l
Target: Soil (agricultural) - Value: 1.3 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
n-butyl acetate - CAS: 123-86-4
Target: Fresh Water - Value: 0.18 mg/l
Target: Marine water - Value: 0.018 mg/l
Target: Intermittent emission - Value: 0.36 mg/l
Target: Freshwater sediments - Value: 0.98 mg/kg
Target: Marine water sediments - Value: 0.098 mg/kg
Target: Microorganisms in sewage treatments - Value: 35.6 mg/l
Target: Soil (agricultural) - Value: 0.09 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

Biological Exposure Index
xylene [4] - CAS: 1330-20-7
Value: 1.5 g/g - medium: Urine - Biological Indicator: Methyl hippuric acid in urine - Sampling Period: End of turn
ethylbenzene - CAS: 100-41-4
Value: 0.15 g/g - medium: Urine - Biological Indicator: Sum of mandelic acid in urine and acid fenilgliossalico - Sampling Period: End of turn; End of working week

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.

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

Respiratory protection:
Use respiratory protection where ventilation is insufficient or exposure is prolonged.
Use adequate protective respiratory equipment.

Thermal Hazards:
None

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:	7.0% - 0.9% Vol. (Xylene)

Vapour density:	> 1
Flash point:	> 23 °C
Evaporation rate:	N.D.
Vapour pressure:	N.D. (20 °C)
Relative density:	1.320 - 1.340
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.

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.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Toxicological information of the product:

CHROMOLACK 20 Finitura PU bianca - PU White top coat

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

The product is classified: Repr. 2 H361

h) STOT-single exposure

The product is classified: STOT SE 3 H335

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:

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 > 2000 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat > 3.5 mg/l - Duration: 4h

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

ethylbenzene - CAS: 100-41-4
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat = 3500 mg/kg
Test: LD50 - Route: Inhalation - Species: Rat = 17.6 mg/l - Duration: 1h
i) STOT-repeated exposure:
Test: NOAEC - Route: Inhalation - Species: Rat = 0.5 mg/l - Notes: Ototoxicity
4-methylpentan-2-one; isobutyl methyl ketone - CAS: 108-10-1
a) acute toxicity:
Test: LC50 - Route: Inhalation Vapour - Species: Rat > 2000 Ppm - Duration: 4h - Source: OCSE 403
Test: LD50 - Route: Oral - Species: Rat = 2080 mg/kg - Source: OCSE 401
Test: LD50 - Route: Skin - Species: Rabbit > 20 ml/kg - Source: OCSE 402
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
n-butyl acetate - CAS: 123-86-4
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 10760 mg/kg - Source: OECD 423
Test: LC50 - Route: Inhalation - Species: Rat > 23.4 mg/l - Duration: 4h - Source: OECD 403
Test: LD50 - Route: Skin - Species: Rabbit > 14000 mg/kg - Source: OECD 402
toluene - CAS: 108-88-3
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat = 5580 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit > 5000 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
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.
4-methylpentan-2-one; isobutyl methyl ketone - CAS: 108-10-1
Product is harmful if inhaled.
Repeated exposure can cause irritation to respiratory tract,skin dryness,cough,cephalea nausea,dizziness and vomiting.Symptoms of chronic exposure are neurological,gastro-intestinal and respiratory.
n-butyl acetate - CAS: 123-86-4
The vapours can cause headache and nausea. As a liquid it can irritate the eyes and cause conjunctivitis, it can irritate the skin and cause dermatitis and, if swallowed, causes inebriation, hallucinations and sedation.
Symptoms of illness at 500 ppm. Serious toxic effects at 2.000 ppm for 60 min.

Substance(s) listed on the NTP report on Carcinogens:
None.
Substance(s) listed on the IARC Monographs:
Titanium Dioxide - Group 2B
xylene [4] - Group 3
ethylbenzene - Group 2B
4-methylpentan-2-one; isobutyl methyl ketone - Group 2B
toluene - Group 3.
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.
CHROMOLACK 20 Finitura PU bianca - PU White top coat
Not classified for environmental hazards
No data available for the product
xylene [4] - CAS: 1330-20-7
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 2.6 mg/l - Duration h: 96
Endpoint: EC50 - Species: Algae = 2.2 mg/l - Duration h: 72 - Notes: OECD TG 201
Endpoint: EC50 - Species: Daphnia = 1 mg/l - Duration h: 24 - Notes: OECD TG 202

b) Aquatic chronic toxicity:
Endpoint: NOEC - Species: Fish > 1.3 mg/l - Notes: 56d
Endpoint: NOEC - Species: Daphnia = 1.57 mg/l - Notes: 21d

ethylbenzene - CAS: 100-41-4
a) Aquatic acute toxicity:
Endpoint: EC50 - Species: Daphnia = 1.8 mg/l - Duration h: 48
Endpoint: EC50 - Species: Algae = 3.6 mg/l - Duration h: 96
Endpoint: LC50 - Species: Fish = 4.2 mg/l - Duration h: 96
b) Aquatic chronic toxicity:
Endpoint: NOEC - Species: Daphnia = 0.96 mg/l - Notes: 7 day
Endpoint: NOEC - Species: Algae = 3.4 mg/l - Duration h: 96

4-methylpentan-2-one; isobutyl methyl ketone - CAS: 108-10-1
a) Aquatic acute toxicity:
Endpoint: EC50 - Species: Daphnia > 200 mg/l - Duration h: 48 - Notes: OECD 202
Endpoint: LC50 - Species: Fish > 179 mg/l - Duration h: 96 - Notes: OECD 203
b) Aquatic chronic toxicity:
Endpoint: NOEC - Species: Algae > 146 mg/l - Notes: 7 days
Endpoint: NOEC - Species: Daphnia = 30 mg/l - Notes: 21 days

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)

n-butyl acetate - CAS: 123-86-4
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 18 mg/l - Duration h: 96 - Notes: OECD 203
Endpoint: EC50 - Species: Daphnia = 44 mg/l - Duration h: 48
Endpoint: EC50 - Species: Algae = 674 mg/l - Duration h: 72

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

Persistence and degradability
xylene [4] - CAS: 1330-20-7
Biodegradability: Readily biodegradable
ethylbenzene - CAS: 100-41-4
Biodegradability: Readily biodegradable - Duration h: 28 days - %: 70-80
4-methylpentan-2-one; isobutyl methyl ketone - CAS: 108-10-1
Biodegradability: Readily biodegradable - Duration h: 28 days - %: 83 - Notes: OECD 301F
isobutyl acetate [2] - CAS: 110-19-0
Biodegradability: Readily biodegradable
n-butyl acetate - CAS: 123-86-4
Biodegradability: Readily biodegradable
toluene - CAS: 108-88-3
Biodegradability: Readily biodegradable

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
- 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-Enviromental 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:
Titanium Dioxide is listed in TSCA Section 8b
xylene [4] is listed in TSCA Section 8b
ethylbenzene is listed in TSCA Section 8b, Section 8d HSDR
4-methylpentan-2-one; isobutyl methyl ketone is listed in TSCA Section 8b, Section 8d HSDR
isobutyl acetate [2] is listed in TSCA Section 8b
n-butyl acetate is listed in TSCA Section 8b
toluene is listed in TSCA Section 8b, Section 8d HSDR, Section 8a - CAIR.

SARA - Superfund Amendments and Reauthorization Act

Section 302 – Extremely Hazardous Substances: no substances listed.
Section 304 – Hazardous substances: xylene [4], ethylbenzene, 4-methylpentan-2-one; isobutyl methyl ketone,

isobutyl acetate [2], n-butyl acetate, toluene.
Section 313 – Toxic chemical list: xylene [4], ethylbenzene, 4-methylpentan-2-one; isobutyl methyl ketone, toluene.

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act
Substance(s) listed under CERCLA: xylene [4] - Reportable quantity: 100 pounds
ethylbenzene - Reportable quantity: 1000 pounds
4-methylpentan-2-one; isobutyl methyl ketone - Reportable quantity: 5000 pounds
isobutyl acetate [2] - Reportable quantity: 5000 pounds
n-butyl acetate - Reportable quantity: 5000 pounds
toluene - Reportable quantity: 1000 pounds.
Reportable quantity for mixture: 493.6196574 pounds.

CAA - Clean Air Act
CAA listed substances:
xylene [4] is listed in CAA Section 111, Section 112(b) - HAP, Section 112(b) - HON
ethylbenzene is listed in CAA Section 111, Section 112(b) - HAP, Section 112(b) - HON
4-methylpentan-2-one; isobutyl methyl ketone is listed in CAA Section 111, Section 112(b) - HAP, Section 112(b) - HON
isobutyl acetate [2] is listed in CAA Section 111
n-butyl acetate is listed in CAA Section 111
toluene 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
ethylbenzene is listed in CWA Section 304, Section 307, Section 311, CWA Priority Pollutants
4-methylpentan-2-one; isobutyl methyl ketone is listed in CWA Section 304
isobutyl acetate [2] is listed in CWA Section 311
n-butyl acetate is listed in CWA Section 304, Section 311
toluene 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
ethylbenzene - Listed as carcinogen
4-methylpentan-2-one; isobutyl methyl ketone - Listed as carcinogen and reproductive toxicant
toluene - Listed as reproductive toxicant.

Massachusetts Right to know
Substance(s) listed under Massachusetts Right to know:
Titanium Dioxide
xylene [4]
ethylbenzene
4-methylpentan-2-one; isobutyl methyl ketone
isobutyl acetate [2]
n-butyl acetate
toluene.

New Jersey Right to know
Substance(s) listed under New Jersey Right to know:
Titanium Dioxide
xylene [4]
ethylbenzene
4-methylpentan-2-one; isobutyl methyl ketone
isobutyl acetate [2]
n-butyl acetate
toluene.

Pennsylvania Right to know
Substance(s) listed under Pennsylvania Right to know:
Titanium Dioxide
xylene [4]
ethylbenzene
4-methylpentan-2-one; isobutyl methyl ketone
isobutyl acetate [2]
n-butyl acetate
toluene.

Volatile Organic compounds - VOCs = 34.92 %
Volatile Organic compounds - VOCs = 467.98 g/l
Volatile CMR substances = 0.01 %
Organic Carbon - C = 0.29

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.
H412 Harmful to aquatic life with long lasting effects.
H336 May cause drowsiness or dizziness.

Safety Data Sheet dated 12/10/2018, version 1
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.

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