Safety Data Sheet

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LAM600 MAKOLOR trasp.per tinte a str.e pennello - Clear binder for wipe and brush stain

Safety Data Sheet dated 4/8/2019, version 1

1. IDENTIFICATION

Product identifier

Mixture identification:

Trade name: MAKOLOR trasp.per tinte a str.e pennello - Clear binder for wipe and brush stain

Other means of identification:

Trade code: LAM600

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, Acute Tox. 4, Harmful in contact with skin.
- 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.
H312 Harmful in contact with skin.
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.
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.
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+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

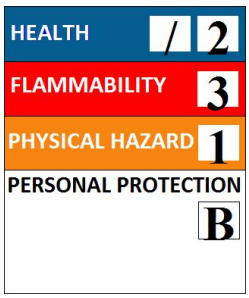
Ingredient(s) with unknown acute toxicity:

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
>= 40% - < 50%	2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve	Index number: CAS: EC: REACH No.:	603-014-00-0 111-76-2 203-905-0 01-2119475108-36	A.3/2A Eye Irrit. 2A H319 B.6/4 Flam. Liq. 4 H227 A.2/2 Skin Irrit. 2 H315 A.1/4/Oral Acute Tox. 4 H302 A.1/4/Dermal Acute Tox. 4 H312

				A.1/4/Inhal Acute Tox. 4 H332
>= 12.5% - < 15%	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
>= 5% - < 7%	2-methoxy-1-methylethyl acetate	Index number: CAS: EC: REACH No.:	607-195-00-7 108-65-6 203-603-9 01-2119475791-29	B.6/3 Flam. Liq. 3 H226 A.8/3 STOT SE 3 H336
>= 3% - < 5%	1-methoxy-2-propanol; monopropylene glycol methyl ether	Index number: CAS: EC: REACH No.:	603-064-00-3 107-98-2 203-539-1 01-2119457435-35	B.6/3 Flam. Liq. 3 H226 A.8/3 STOT SE 3 H336
>= 3% - < 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.7/2 Repr. 2 H361 A.10/1 Asp. Tox. 1 H304 A.9/2 STOT RE 2 H373 A.2/2 Skin Irrit. 2 H315 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
>= 1% - < 3%	propan-2-ol; isopropyl alcohol; isopropanol	Index number: CAS: EC: REACH No.:	603-117-00-0 67-63-0 200-661-7 01-2119457558-25	B.6/2 Flam. Liq. 2 H225 A.3/2A Eye Irrit. 2A H319 A.8/3 STOT SE 3 H336

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 under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

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

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.

Remove persons to safety.

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.

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

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

EU - TWA(8h): 98 mg/m3, 20 ppm - STEL: 246 mg/m3, 50 ppm - Notes: Skin

ACGIH - TWA(8h): 20 ppm - Notes: A3, BEI - Eye and URT 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

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

EU - TWA(8h): 275 mg/m3, 50 ppm - STEL: 550 mg/m3, 100 ppm - Notes: Skin

TLV TWA - 275 mg/m3 - 50 ppm

TLV STEL - 550 mg/m3 - 100 ppm

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

EU - TWA(8h): 375 mg/m3, 100 ppm - STEL: 563 mg/m3, 150 ppm - Notes: Skin

ACGIH - TWA(8h): 50 ppm - STEL: 100 ppm - Notes: A4 - 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

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
propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0
ACGIH - TWA(8h): 200 ppm - STEL: 400 ppm - Notes: A4, BEI - Eye and URT irr, CNS impair

DNEL Exposure Limit Values

2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve - CAS: 111-76-2
Worker Industry: 125 mg/kg - Worker Professional: 125 mg/kg - Consumer: 75 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Industry: 98 mg/m3 - Worker Professional: 98 mg/m3 - Consumer: 59 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 6.3 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
2-methoxy-1-methylethyl acetate - CAS: 108-65-6
Worker Industry: 796 mg/kg - Worker Professional: 796 mg/kg - Consumer: 320 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Industry: 275 mg/m3 - Worker Professional: 275 mg/m3 - Consumer: 33 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Industry: 550 mg/m3 - Worker Professional: 550 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, local effects
Consumer: 36 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2
Worker Industry: 553.5 mg/m3 - Worker Professional: 553.5 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, local effects
Worker Industry: 369 mg/m3 - Worker Professional: 369 mg/m3 - Consumer: 43.9 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Industry: 183 mg/kg - Worker Professional: 183 mg/kg - Consumer: 78 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 33 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/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
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
propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0
Worker Industry: 888 mg/kg - Worker Professional: 888 mg/kg - Consumer: 319 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Industry: 500 mg/m3 - Worker Professional: 500 mg/m3 - Consumer: 89 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 26 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve - CAS: 111-76-2
Target: Fresh Water - Value: 8.8 mg/l
Target: Marine water - Value: 0.88 mg/l
Target: Intermittent emission - Value: 9.1 mg/l
Target: Freshwater sediments - Value: 8.14 mg/kg
Target: Marine water sediments - Value: 3.46 mg/kg
Target: Microorganisms in sewage treatments - Value: 463 mg/l
Target: Food chain - Value: 20 mg/kg
Target: Soil (agricultural) - Value: 2.33 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

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: Intermittent emission - Value: 6.35 mg/l
Target: Microorganisms in sewage treatments - Value: 100 mg/l
Target: Freshwater sediments - Value: 3.29 mg/kg
Target: Marine water sediments - Value: 0.329 mg/kg
Target: Soil (agricultural) - Value: 0.29 mg/kg

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2
Target: Fresh Water - Value: 10 mg/l
Target: Marine water - Value: 1 mg/l
Target: Intermittent emission - Value: 100 mg/l
Target: Freshwater sediments - Value: 52.3 mg/kg
Target: Marine water sediments - Value: 5.2 mg/kg
Target: Soil (agricultural) - Value: 4.59 mg/kg
Target: Microorganisms in sewage treatments - Value: 100 mg/l

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

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: 6.58 mg/l

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0
Target: Fresh Water - Value: 140.9 mg/l
Target: Marine water - Value: 140.9 mg/l
Target: Freshwater sediments - Value: 552 mg/kg
Target: Marine water sediments - Value: 552 mg/kg
Target: Food chain - Value: 160 mg/kg
Target: Soil (agricultural) - Value: 28 mg/kg
Target: Microorganisms in sewage treatments - Value: 2251 mg/l

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

toluene - CAS: 108-88-3
Value: 0.02 mg/L - medium: Blood - Biological Indicator: Toluene in blood - Sampling Period: End of turn; End of working week

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 adequate protective respiratory equipment.

Thermal Hazards:
None

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour:	opalescent 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:	N.D.
Vapour density:	> 1
Flash point:	> 4 °C
Evaporation rate:	N.D.
Vapour pressure:	N.D. (20 °C)
Relative density:	0.950 - 0.970
Solubility in water:	partial
Solubility in oil:	partial
Partition coefficient (n-octanol/water):	N.D.
Auto-ignition temperature:	> 240 °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 generate flammable gases on contact with elementary metals (alkalis and alkaline earth), nitrides, and powerful reducing agents.

It may catch fire on contact with oxidising mineral acids, elementary metals (alkalis and alkaline earth), nitrides, organic peroxides and hydroperoxides, oxidising agents, and reducing 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:

MAKOLOR trasp.per tinte a str.e pennello - Clear binder for wipe and brush stain

a) acute toxicity

The product is classified: Acute Tox. 4 H312

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

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:

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

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 1300 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat > 523 Ppm - Duration: 4h

Test: LC50 - Route: Skin - Species: Rabbit > 435 mg/kg

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

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

a) acute toxicity:

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

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 4016 mg/kg

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

Test: LC50 - Route: Inhalation - Species: Rat = 54.6 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 > 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

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

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 5840 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit = 16.4 ml/kg

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

The product is harmful if inaled,swallowed or absorbed through skin.Repeated or extended exposures cause headache,drowsiness,weakness, stuttering,blurred vision,urinary albumin,kidneys demages,liver enlargement and haemolysis.

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:

2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve - Group 3

xylene [4] - Group 3

toluene - Group 3

ethylbenzene - Group 2B

propan-2-ol; isopropyl alcohol; isopropanol - Group 3.

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

None.

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

None.

12. ECOLOGICAL INFORMATION

Ecotoxicity

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

MAKOLOR trasp.per tinte a str.e pennello - Clear binder for wipe and brush stain

Not classified for environmental hazards

No data available for the product

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

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae = 623 mg/l - Duration h: 72 - Notes: OECD 201
Endpoint: EC50 - Species: Daphnia = 1550 mg/l - Duration h: 48 - Notes: OECD 202
Endpoint: LC50 - Species: Fish = 1474 mg/l - Duration h: 96 - Notes: OECD 203

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia = 100 mg/l - Notes: 21 d
Endpoint: NOEC - Species: Algae = 62.5 mg/l - Duration h: 72

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

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

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae > 1000 mg/l - Duration h: 96 - Notes: OECD 201
Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 96 - Notes: OECD 203
Endpoint: LC50 - Species: Daphnia > 500 mg/l - Duration h: 48

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish = 47.5 mg/l - Notes: 14d OECD 204
Endpoint: NOEC - Species: Daphnia > 100 mg/l - Notes: 21d OECD 211

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Daphnia > 21100 mg/l - Duration h: 48
Endpoint: LC50 - Species: Fish > 4600 mg/l - Duration h: 96
Endpoint: EC50 - Species: Algae > 1000 mg/l - Notes: 7 d

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

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

Persistence and degradability

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

Biodegradability: Readily biodegradable - Duration h: 28 days - %: 90.4 - Notes: OECD 301B

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

Biodegradability: Readily biodegradable

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

Biodegradability: Readily biodegradable - Duration h: 28 days - %: 83 - Notes: OECD 301F

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

Biodegradability: Readily biodegradable - Duration h: 28 days - %: 96 - Notes: OECD 301E

toluene - CAS: 108-88-3

Biodegradability: Readily biodegradable

ethylbenzene - CAS: 100-41-4

Biodegradability: Readily biodegradable - Duration h: 28 days - %: 70-80
propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0
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
IATA-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

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

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 B
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:
2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve is listed in TSCA Section 8b, Section 8d HSDR
xylene [4] is listed in TSCA Section 8b
2-methoxy-1-methylethyl acetate is listed in TSCA Section 8a - PAIR, Section 8b, Section 8d HSDR
1-methoxy-2-propanol; monopropylene glycol methyl ether is listed in TSCA Section 8b, Section 8d HSDR
toluene is listed in TSCA Section 8b, Section 8d HSDR, Section 8a - CAIR
ethylbenzene is listed in TSCA Section 8b, Section 8d HSDR
propan-2-ol; isopropyl alcohol; isopropanol is listed in TSCA Section 8b, Section 8d HSDR.

SARA - Superfund Amendments and Reauthorization Act

Section 302 – Extremely Hazardous Substances: no substances listed.
Section 304 – Hazardous substances: xylene [4], toluene, ethylbenzene.
Section 313 – Toxic chemical list: xylene [4], toluene, ethylbenzene, propan-2-ol; isopropyl alcohol; isopropanol.

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA: xylene [4] - Reportable quantity: 100 pounds
toluene - Reportable quantity: 1000 pounds
ethylbenzene - Reportable quantity: 1000 pounds.
Reportable quantity for mixture: 769.2307692 pounds.

CAA - Clean Air Act

CAA listed substances:
2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve is listed in CAA Section 111
xylene [4] is listed in CAA Section 111, Section 112(b) - HAP, Section 112(b) - HON
1-methoxy-2-propanol; monopropylene glycol methyl ether is listed in CAA Section 112(b) - HON
toluene 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
propan-2-ol; isopropyl alcohol; isopropanol is listed in CAA Section 111.

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
ethylbenzene is listed in CWA Section 304, Section 307, Section 311, CWA Priority Pollutants
propan-2-ol; isopropyl alcohol; isopropanol is listed in CWA Section 304.

USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:
toluene - Listed as reproductive toxicant
ethylbenzene - Listed as carcinogen.

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:
2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve
xylene [4]
1-methoxy-2-propanol; monopropylene glycol methyl ether
toluene
ethylbenzene
propan-2-ol; isopropyl alcohol; isopropanol.

New Jersey Right to know

Substance(s) listed under New Jersey Right to know:
2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve
xylene [4]
1-methoxy-2-propanol; monopropylene glycol methyl ether
toluene
ethylbenzene
propan-2-ol; isopropyl alcohol; isopropanol.

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:
2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve
xylene [4]
1-methoxy-2-propanol; monopropylene glycol methyl ether
toluene
ethylbenzene
propan-2-ol; isopropyl alcohol; isopropanol.

Volatile Organic compounds - VOCs = 76.14 %

16. OTHER INFORMATION

Full text of phrases referred to in Section 3:

H319 Causes serious eye irritation.
H227 Combustible liquid.
H315 Causes skin irritation.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H332 Harmful if inhaled.
H226 Flammable liquid and vapour.
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.
H336 May cause drowsiness or dizziness.
H225 Highly flammable liquid and vapour.
H361 Suspected of damaging fertility or the unborn child.
H412 Harmful to aquatic life with long lasting effects.

Safety Data Sheet dated 4/8/2019, 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