

Safety Data Sheet



LBE192 SIVODUR Fondo acrilico trasparente - Acrylic transparent sealer

Safety Data Sheet dated 7/4/2018, version 1

1. Identification

GHS Product identifier

Mixture identification:

Trade name:

SIVODUR Fondo acrilico trasparente - Acrylic transparent sealer

Other means of identification

Trade code:

LBE192

Recommended use and restrictions on use

Recommended use:

Industrial and professional uses (SU3 - SU22)

Varnish for wood

Supplier's details

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 :+1-514-832-4010

Emergency phone number for Canada: Canutec (613) 996-6666

Distributor:

Quincaillerie Richelieu Ltée/Richelieu Hardware Ltd.

7900 Henri-Bourassa Blvd. W.

Montreal, Quebec, Canada, H4S 1V4

Tel :+1-514-832-4010

Emergency phone number for Canada: Canutec (613) 996-6666

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 identification

Classification of the hazardous product

- ⚠ Danger, Flam. Liq. 2, Highly flammable liquid and vapour.
- ⚠ Warning, Eye Irrit. 2A, Causes serious eye irritation.
- ⚠ Warning, Skin Sens. 1, May cause an allergic skin reaction.
- ⚠ Warning, Repr. 2, Suspected of damaging fertility or the unborn child.
- ⚠ Warning, STOT SE 3, May cause drowsiness or dizziness.
- ⚠ Warning, STOT RE 2, May cause damage to organs through prolonged or repeated exposure.

GHS label elements, including precautionary statements

Hazard pictograms:



Danger

Hazard statements:

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H361 Suspected of damaging fertility or the unborn child.

H336 May cause drowsiness or dizziness.

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, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P240 Ground and bond container and receiving equipment.

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

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

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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.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of 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).
P333+P313 If skin irritation or rash 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, 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

Other hazards

None

Ingredient(s) with unknown acute toxicity

None.

3. Composition/Information on ingredients

Substances

N.A.













Mixtures

Hazardous components within the meaning of WHMIS 2015 and related classification:

Qty	Name	Ident. Number	Classification
>= 30% - < 40%	n-butyl acetate	Index number: 607-025-00-1 CAS: 123-86-4 EC: 204-658-1 REACH No.: 01-2119485493-29	⚠ B.6/3 Flam. Liq. 3 H226 ⚠ A.8/3 STOT SE 3 H336
>= 7% - < 10%	butanone; ethyl methyl ketone	Index number: 606-002-00-3 CAS: 78-93-3 EC: 201-159-0 REACH No.: 01-2119457290-43	⚠ B.6/2 Flam. Liq. 2 H225 ⚠ A.8/3 STOT SE 3 H336
>= 3% - < 5%	toluene	Index number: 601-021-00-3 CAS: 108-88-3 EC: 203-625-9 REACH No.: 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
>= 3% - < 5%	isobutyl acetate [2]	Index number: 607-026-00-7 CAS: 110-19-0 EC: 203-745-1 REACH No.: 01-2119488971-22	⚠ B.6/2 Flam. Liq. 2 H225 ⚠ A.8/3 STOT SE 3 H336
>= 3% - < 5%	4-methylpentan-2-one; isobutyl methyl ketone	Index number: 606-004-00-4 CAS: 108-10-1 EC: 203-550-1 REACH No.: 01-2119473980-30	⚠ B.6/2 Flam. Liq. 2 H225 ⚠ A.8/3 STOT SE 3 H335 ⚠ A.1/4/Inhal Acute Tox. 4 H332

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>= 1% - < 3%	2-methylpropan-1-ol; iso-butanol	Index number: 603-108-00-1 CAS: 78-83-1 EC: 201-148-0 REACH No.: 01-2119484609-23	 B.6/3 Flam. Liq. 3 H226  A.8/3 STOT SE 3 H335  A.2/2 Skin Irrit. 2 H315  A.3/1 Eye Dam. 1 H318  A.8/3 STOT SE 3 H336
>= 1% - < 3%	methyl methacrylate; methyl 2-methylprop-2-enoate	Index number: 607-035-00-6 CAS: 80-62-6 EC: 201-297-1 REACH No.: 01-2119452498-28	 A.4.2/1 Skin Sens. 1 H317  B.6/2 Flam. Liq. 2 H225  A.8/3 STOT SE 3 H335  A.2/2 Skin Irrit. 2 H315
>= 0.1% - < 0.3%	2-hydroxyethyl methacrylate	Index number: 607-124-00-X CAS: 868-77-9 EC: 212-782-2 REACH No.: 01-2119490169-29	 A.2/2 Skin Irrit. 2 H315  A.3/2A Eye Irrit. 2A H319  A.4.2/1 Skin Sens. 1 H317

4. First-aid measures

Description of necessary first-aid 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 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, if necessary

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 and unsuitable extinguishing media

Suitable extinguishing media:

In case of fire, use alcohol resistant foam, dry chemical, CO₂, water spray. Do not use water jet.

Unsuitable extinguishing media:

None in particular.

Specific hazards arising from the hazardous product

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.

Remove persons to safety.

Use appropriate respiratory protection.

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See protective measures under point 7 and 8.
Methods and material 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

n-butyl acetate - CAS: 123-86-4
ACGIH - TWA(8h): 50 ppm - STEL: 150 ppm - Notes: Eye and URT irr
butanone; ethyl methyl ketone - CAS: 78-93-3
EU - TWA(8h): 600 mg/m³, 200 ppm - STEL: 900 mg/m³, 300 ppm
ACGIH - TWA(8h): 200 ppm - STEL: 300 ppm - Notes: BEI - URT irr, CNS and PNS impair
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
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
2-methylpropan-1-ol; iso-butanol - CAS: 78-83-1
ACGIH - TWA(8h): 50 ppm - Notes: Skin and eye irr
methyl methacrylate; methyl 2-methylprop-2-enoate - CAS: 80-62-6
EU - TWA(8h): 50 ppm - STEL: 100 ppm
ACGIH - TWA(8h): 50 ppm - STEL: 100 ppm - Notes: DSEN, A4 - URT and eye irr, body weight eff, pulm edema

DNEL Exposure Limit Values

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
butanone; ethyl methyl ketone - CAS: 78-93-3
Worker Industry: 1161 mg/kg - Worker Professional: 1161 mg/kg - Consumer: 412 mg/kg - Exposure: Human
Dermal - Frequency: Long Term, systemic effects
Worker Industry: 600 mg/m³ - Worker Professional: 600 mg/m³ - Consumer: 106 mg/m³ - Exposure: Human
Inhalation - Frequency: Long Term, systemic effects
Consumer: 31 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

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Consumer: 8.13 mg/kg - Exposure: Human Oral - 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
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
2-methylpropan-1-ol; iso-butanol - CAS: 78-83-1
Worker Industry: 310 mg/m³ - Worker Professional: 310 mg/m³ - Consumer: 55 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects
methyl methacrylate; methyl 2-methylprop-2-enoate - CAS: 80-62-6
Worker Industry: 13.67 mg/kg - Worker Professional: 13.67 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Industry: 210 mg/m³ - Worker Professional: 210 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects
2-hydroxyethyl methacrylate - CAS: 868-77-9
Worker Industry: 1.3 mg/kg - Worker Professional: 1.3 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Industry: 4.9 mg/m³ - Worker Professional: 4.9 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects
PNEC Exposure Limit Values
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
butanone; ethyl methyl ketone - CAS: 78-93-3
Target: Fresh Water - Value: 55.8 mg/l
Target: Intermittent emission - Value: 55.8 mg/l
Target: Microorganisms in sewage treatments - Value: 709 mg/l
Target: Freshwater sediments - Value: 284.7 mg/kg
Target: Marine water sediments - Value: 284.7 mg/kg
Target: Soil (agricultural) - Value: 22.5 mg/kg
Target: Food chain - Value: 1000 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
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

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Target: Freshwater sediments - Value: 8.27 mg/kg
 Target: Marine water sediments - Value: 0.83 mg/kg
 Target: Soil (agricultural) - Value: 1.3 mg/kg
 2-methylpropan-1-ol; iso-butanol - CAS: 78-83-1
 Target: Fresh Water - Value: 0.4 mg/l
 Target: Marine water - Value: 0.04 mg/l
 Target: Freshwater sediments - Value: 1.52 mg/kg
 Target: Marine water sediments - Value: 0.152 mg/kg
 Target: Intermittent emission - Value: 11 mg/l
 Target: Microorganisms in sewage treatments - Value: 10 mg/l
 Target: Soil (agricultural) - Value: 0.06 mg/kg
 methyl methacrylate; methyl 2-methylprop-2-enoate - CAS: 80-62-6
 Target: Fresh Water - Value: 0.94 mg/l
 Target: Marine water - Value: 0.094 mg/l
 Target: Freshwater sediments - Value: 5.74 mg/kg
 Target: Microorganisms in sewage treatments - Value: 10 mg/l
 Target: Soil (agricultural) - Value: 1.47 mg/kg
 2-hydroxyethyl methacrylate - CAS: 868-77-9
 Target: Fresh Water - Value: 0.482 mg/l
 Target: Marine water - Value: 0.482 mg/l
 Target: Freshwater sediments - Value: 3.79 mg/kg
 Target: Marine water sediments - Value: 3.79 mg/kg
 Target: Microorganisms in sewage treatments - Value: 10 mg/l
 Target: Soil (agricultural) - Value: 0.476 mg/kg
 Appropriate engineering controls
 None
 Individual protection measures, such as personal protective equipment (PPE)
 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:	> 79 °C
Flash point:	< 0 °C
Evaporation rate:	N.D.
Solid/gas flammability:	N.A.
Upper/lower flammability or explosive limits:	7.5% - 1.6% Vol. (n-butyl acetate)
Vapour pressure:	N.D. (20 °C)
Vapour density:	> 1
Relative density:	0.940 - 0.960
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.

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), and nitrides.
 It may catch fire on contact with oxidising mineral acids, powerful oxidising agents, and powerful reducing agents.
 Conditions to avoid

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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:

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- a) acute toxicity
Not classified
No data available for the product
- b) skin corrosion/irritation
Not classified
No data available for the product
- c) serious eye damage/irritation
The product is classified: Eye Irrit. 2A H319
- d) respiratory or skin sensitisation
The product is classified: Skin Sens. 1 H317
- 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 H336
- 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:

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

butanone; ethyl methyl ketone - CAS: 78-93-3

- a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 2193 mg/kg - Source: OECD 423
Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg - Source: OECD 402
Test: LC50 - Route: Inhalation - Species: Rat = 23.5 mg/l - Duration: 8h

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

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

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

- a) acute toxicity:
Test: LC50 - Route: Inhalation - 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

2-methylpropan-1-ol; iso-butanol - CAS: 78-83-1

- a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 2830 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat > 24.6 mg/l - Duration: 4h

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methyl methacrylate; methyl 2-methylprop-2-enoate - CAS: 80-62-6

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 7900 mg/kg

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

Test: LC50 - Route: Inhalation - Species: Rat > 29.8 mg/l - Duration: 4h

2-hydroxyethyl methacrylate - CAS: 868-77-9

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 5050 mg/kg

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.

butanone; ethyl methyl ketone - CAS: 78-93-3

High exposure can cause

drowsiness, migraine, narcosis and dizziness.

The extended contact and/or repeated with skin can cause dermatitis.

Environmental concentrations more than 200 ppm result irritating for eyes and respiratory tract.

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.

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, cephalaea, nausea, dizziness and vomiting. Symptoms of chronic exposure are neurological, gastro-intestinal and respiratory.

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

None.

Substance(s) listed on the IARC Monographs:

toluene - Group 3

4-methylpentan-2-one; isobutyl methyl ketone - Group 2B

methyl methacrylate; methyl 2-methylprop-2-enoate - 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.

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Not classified for environmental hazards

No data available for the product

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

butanone; ethyl methyl ketone - CAS: 78-93-3

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 308 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 2029 mg/l - Duration h: 96

Endpoint: LC50 - Species: Fish = 2993 mg/l - Duration h: 96

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:

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Endpoint: NOEC - Species: Daphnia = 23.2 mg/l - Notes: OCSE 201 (21d)
 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
 methyl methacrylate; methyl 2-methylprop-2-enoate - CAS: 80-62-6
 a) Aquatic acute toxicity:
 Endpoint: LC50 - Species: Fish = 191 mg/l - Duration h: 96
 Endpoint: EC50 - Species: Daphnia = 69 mg/l - Duration h: 48
 Endpoint: EC50 - Species: Algae = 170 mg/l - Duration h: 96
 Persistence and degradability
 n-butyl acetate - CAS: 123-86-4
 Biodegradability: Readily biodegradable - Test: N.A. - Duration h: N.A. - %: N.A. - Notes: N.A.
 butanone; ethyl methyl ketone - CAS: 78-93-3
 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.
 4-methylpentan-2-one; isobutyl methyl ketone - CAS: 108-10-1
 Biodegradability: Readily biodegradable - Test: N.A. - Duration h: 28 days - %: 83 - Notes: OECD 301F
 2-methylpropan-1-ol; iso-butanol - CAS: 78-83-1
 Biodegradability: 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

Safe handling and methods for disposal
 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	
TDG number:	UN1263
ADR-UN Number:	1263
DOT number:	UN1263
IATA-UN Number:	1263
IMDG-UN Number:	1263
UN proper shipping name	
TDG-Shipping Name:	PAINT
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)	
TDG Class:	3
ADR-Class:	3
DOT Hazard Class:	3
ADR - Hazard identification number:	33
IATA-Class:	3

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IATA-Label:	3
IMDG-Class:	3
Packing group	
TDG Packing group:	II
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 in connection with transport or conveyance	
Rail (RID):	3
TDG Special provisions:	59,142
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

Safety, health and environmental regulations specific for the product in question

This Safety Data Sheet has been prepared according to the Hazardous Products Regulations (HPR) - WHMIS 2015.

NPRI - National Pollutant Release Inventory

Substance(s) listed under NPRI:

None.

DSL inventory - Domestic substances list

no substances listed

NDSL inventory - Not Domestic substances list

no substances listed

TSCA inventory

All the components are listed on the TSCA inventory.

TSCA listed substances:

n-butyl acetate is listed in TSCA Section 8b

butanone; ethyl methyl ketone is listed in TSCA Section 8b, Section 8d HSDR

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

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

4-methylpentan-2-one; isobutyl methyl ketone is listed in TSCA Section 8b, Section 8d HSDR

2-methylpropan-1-ol; iso-butanol is listed in TSCA Section 8b, Section 8d HSDR

methyl methacrylate; methyl 2-methylprop-2-enoate is listed in TSCA Section 8b, Section 8d HSDR

2-hydroxyethyl methacrylate is listed in TSCA Section 8b.

USA - Federal regulations

SARA - Superfund Amendments and Reauthorization Act

Section 302 – Extremely Hazardous Substances: no substances listed.

Section 304 – Hazardous substances: n-butyl acetate, butanone; ethyl methyl ketone, toluene, isobutyl acetate [2],

4-methylpentan-2-one; isobutyl methyl ketone, 2-methylpropan-1-ol; iso-butanol, methyl methacrylate; methyl

2-methylprop-2-enoate.

Section 313 – Toxic chemical list: toluene, 4-methylpentan-2-one; isobutyl methyl ketone, methyl methacrylate;

methyl 2-methylprop-2-enoate.

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA: n-butyl acetate - Reportable quantity: 5000 pounds

butanone; ethyl methyl ketone - Reportable quantity: 5000 pounds

toluene - Reportable quantity: 1000 pounds

isobutyl acetate [2] - Reportable quantity: 5000 pounds

4-methylpentan-2-one; isobutyl methyl ketone - Reportable quantity: 5000 pounds

2-methylpropan-1-ol; iso-butanol - Reportable quantity: 5000 pounds

methyl methacrylate; methyl 2-methylprop-2-enoate - Reportable quantity: 1000 pounds.

Reportable quantity for mixture: 15234.70588 pounds.

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CAA - Clean Air Act

CAA listed substances:

n-butyl acetate is listed in CAA Section 111

butanone; ethyl methyl ketone 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

4-methylpentan-2-one; isobutyl methyl ketone is listed in CAA Section 111, Section 112(b) - HAP, Section 112(b) - HON

2-methylpropan-1-ol; iso-butanol is listed in CAA Section 111

methyl methacrylate; methyl 2-methylprop-2-enoate is listed in CAA Section 111, Section 112(b) - HAP, Section 112(b) - HON.

CWA - Clean Water Act

CWA listed substances:

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

isobutyl acetate [2] is listed in CWA Section 311

4-methylpentan-2-one; isobutyl methyl ketone is listed in CWA Section 304

methyl methacrylate; methyl 2-methylprop-2-enoate is listed in CWA Section 311.

USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:

toluene - Listed as reproductive toxicant

4-methylpentan-2-one; isobutyl methyl ketone - Listed as carcinogen and reproductive toxicant.

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

n-butyl acetate

butanone; ethyl methyl ketone

toluene

isobutyl acetate [2]

4-methylpentan-2-one; isobutyl methyl ketone

2-methylpropan-1-ol; iso-butanol

methyl methacrylate; methyl 2-methylprop-2-enoate.

New Jersey Right to know

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

n-butyl acetate

butanone; ethyl methyl ketone

toluene

isobutyl acetate [2]

4-methylpentan-2-one; isobutyl methyl ketone

2-methylpropan-1-ol; iso-butanol

methyl methacrylate; methyl 2-methylprop-2-enoate.

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

n-butyl acetate

butanone; ethyl methyl ketone

toluene

isobutyl acetate [2]

4-methylpentan-2-one; isobutyl methyl ketone

2-methylpropan-1-ol; iso-butanol

methyl methacrylate; methyl 2-methylprop-2-enoate.

Volatile Organic compounds - VOCs = 62.74 %

Volatile Organic compounds - VOCs = 602.29 g/l

Volatile CMR substances = 0.01 %

Organic Carbon - C = 0.41

16. Other information

Full text of phrases referred to in Section 3:

H226 Flammable liquid and vapour.

H336 May cause drowsiness or dizziness.

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

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

H335 May cause respiratory irritation.

H332 Harmful if inhaled.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

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H319 Causes serious eye irritation.

Safety Data Sheet dated 7/4/2018, 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