



Safety Data Sheet

LZD096 DILUENTE per PU - PU Thinner

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

1. IDENTIFICATION

Product identifier

Mixture identification:

Trade name: DILUENTE per PU - PU Thinner

Other means of identification:

Trade code: LZD096

Recommended use of the chemical and restrictions on use

Recommended use:

Industrial and professional uses (SU3 - SU22)

Thinner for paints and varnishes

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

Company:

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

Importer:

Quincaillerie Richelieu Ltée/Richelieu Hardware Ltd.

7900 Henri-Bourassa Blvd. W.

Montreal, Quebec, Canada, H4S 1V4

Tel: +1-860-529-7704

Distributor:

Quincaillerie Richelieu Ltée/Richelieu Hardware Ltd.

7900 Henri-Bourassa Blvd. W.

Montreal, Quebec, Canada, H4S 1V4

Tel: +1-860-529-7704

Competent person responsible for the safety data sheet:

msds@sivam.it

Emergency phone number

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

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

2. HAZARD(S) IDENTIFICATION

Classification of the chemical

- ⚠ Danger, Flam. Liq. 2, Highly flammable liquid and vapour.
- ⚠ Warning, Skin Irrit. 2, Causes skin irritation.
- ⚠ Warning, Eye Irrit. 2A, Causes serious eye irritation.
- ⚠ Warning, STOT SE 3, May cause respiratory irritation.
- ⚠ Warning, STOT SE 3, May cause drowsiness or dizziness.
- ⚠ Warning, STOT RE 2, May cause damage to organs through prolonged or repeated exposure.
- ⚠ Danger, Asp. Tox. 1, May be fatal if swallowed and enters airways.

Label elements

Hazard pictograms:



Danger

Hazard statements:

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

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

H304 May be fatal if swallowed and enters airways.

Precautionary statements:

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.

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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.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
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.
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).
P331 Do NOT induce vomiting.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P370+P378 In case of fire, use alcohol resistant foam, dry chemical, 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:

HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZARD	1
PERSONAL PROTECTION	B

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

N.A.

Mixtures

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

















Qty	Name	Ident. Number	Classification
>= 30% - < 40%	xylene [4]	Index number: 601-022-00-9 CAS: 1330-20-7 EC: 215-535-7 REACH No.: 01-2119488216-	<div> <div></div> <div>B.6/3 Flam. Liq. 3 H226</div> </div> <div> <div></div> <div>A.1/4/Dermal Acute Tox. 4 H312</div> </div> <div> <div></div> <div>A.1/4/Inhal Acute Tox. 4 H332</div> </div> <div> <div></div> <div>A.2/2 Skin Irrit. 2 H315</div> </div>

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		32	<p>  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 </p>
>= 30% - < 40%	ethyl acetate	Index number: 607-022-00-5 CAS: 141-78-6 EC: 205-500-4 REACH No.: 01-2119475103-46	<p>  A.3/2A Eye Irrit. 2A H319  B.6/2 Flam. Liq. 2 H225  A.8/3 STOT SE 3 H336 </p>
>= 15% - < 20%	isobutyl acetate [2]	Index number: 607-026-00-7 CAS: 110-19-0 EC: 203-745-1 REACH No.: 01-2119488971-22	<p>  B.6/2 Flam. Liq. 2 H225  A.8/3 STOT SE 3 H336 </p>
>= 10% - < 12.5%	4-hydroxy-4-methylpentan-2-one; diacetone alcohol	Index number: 603-016-00-1 CAS: 123-42-2 EC: 204-626-7 REACH No.: 01-2119473975-21	<p>  B.6/3 Flam. Liq. 3 H226  A.3/2A Eye Irrit. 2A H319  A.8/3 STOT SE 3 H335 </p>
>= 10% - < 12.5%	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	<p>  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 </p>

4. FIRST-AID MEASURES

Description of necessary measures

In case of skin contact:

Immediately take off all contaminated clothing.

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do NOT induce vomiting.

In case of Inhalation:

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 alcohol 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.

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6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment, and emergency procedures
 - Wear personal protection equipment.
 - Remove all sources of ignition.
 - Wear breathing apparatus if exposed to vapours/dusts/aerosols.
 - Provide adequate ventilation.
 - Remove persons to safety.
 - Use appropriate respiratory protection.
 - See protective measures under point 7 and 8.
- Methods and materials for containment and cleaning up
 - Wash with plenty of water.

7. HANDLING AND STORAGE

- Precautions for safe handling
 - Avoid contact with skin and eyes, inhalation of vapours and mists.
 - 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.
 - Contaminated clothing should be changed before entering eating areas.
 - Do not eat or drink while working.
 - See also section 8 for recommended protective equipment.
- Conditions for safe storage, including any incompatibilities
 - Always keep in a well ventilated place.
 - Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.
 - Avoid accumulating electrostatic charge.
 - Keep away from food, drink and feed.
 - Incompatible materials:
 - None in particular.
 - Instructions as regards storage premises:
 - Cool and adequately ventilated.
 - Safety electric system.
 - Storage temperature:
 - Store at ambient temperature.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Control parameters
 - xylene [4] - CAS: 1330-20-7
 - EU - TWA(8h): 221 mg/m³, 50 ppm - STEL: 442 mg/m³, 100 ppm - Notes: Skin
 - ACGIH - TWA(8h): 100 ppm - STEL: 150 ppm - Notes: A4, BEI - URT and eye irr, CNS impair
 - ethyl acetate - CAS: 141-78-6
 - ACGIH - TWA(8h): 400 ppm - Notes: URT and eye irr
 - EU - TWA(8h): 734 mg/m³, 200 ppm - STEL: 1468 mg/m³, 400 ppm
 - isobutyl acetate [2] - CAS: 110-19-0
 - ACGIH - TWA(8h): 50 ppm - STEL: 150 ppm - Notes: Eye and URT irr
 - 4-hydroxy-4-methylpentan-2-one; diacetone alcohol - CAS: 123-42-2
 - ACGIH - TWA(8h): 50 ppm - Notes: URT and eye 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
- DNEL Exposure Limit Values
 - xylene [4] - CAS: 1330-20-7
 - Worker Industry: 289 mg/m³ - Worker Professional: 289 mg/m³ - Consumer: 174 mg/m³ - Exposure: Human
 - Inhalation - Frequency: Short Term, systemic effects
 - Worker Industry: 77 mg/m³ - Worker Professional: 77 mg/m³ - Consumer: 14.8 mg/m³ - Exposure: Human
 - Inhalation - Frequency: Long Term, systemic effects
 - Worker Industry: 180 mg/kg - Worker Professional: 180 mg/kg - Consumer: 108 mg/kg - Exposure: Human Dermal
 - Frequency: Long Term, systemic effects
 - Consumer: 1.6 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
 - ethyl acetate - CAS: 141-78-6
 - Worker Industry: 1468 mg/m³ - Worker Professional: 1468 mg/m³ - Consumer: 734 mg/m³ - Exposure: Human
 - Inhalation - Frequency: Short Term, systemic effects
 - Worker Industry: 1468 mg/m³ - Worker Professional: 1468 mg/m³ - Consumer: 734 mg/m³ - Exposure: Human
 - Inhalation - Frequency: Short Term, local effects
 - Worker Industry: 63 mg/kg - Worker Professional: 63 mg/kg - Consumer: 37 mg/kg - Exposure: Human Dermal
 - Frequency: Long Term, systemic effects
 - Worker Industry: 734 mg/m³ - Worker Professional: 734 mg/m³ - Consumer: 367 mg/m³ - Exposure: Human

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Inhalation - Frequency: Long Term, systemic effects
 Worker Industry: 734 mg/m³ - Worker Professional: 734 mg/m³ - Consumer: 367 mg/m³ - Exposure: Human
 Inhalation - Frequency: Long Term, local effects
 Consumer: 4.5 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-hydroxy-4-methylpentan-2-one; diacetone alcohol - CAS: 123-42-2
 Worker Industry: 9.4 mg/kg - Worker Professional: 9.4 mg/kg - Consumer: 3.4 mg/kg - Exposure: Human Dermal -
 Frequency: Long Term, systemic effects
 Worker Industry: 66.4 mg/m³ - Worker Professional: 66.4 mg/m³ - Consumer: 11.8 mg/m³ - Exposure: Human
 Inhalation - Frequency: Long Term, systemic effects
 Consumer: 3.4 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

PNEC Exposure Limit Values

xylene [4] - CAS: 1330-20-7
 Target: Fresh Water - Value: 0.32 mg/l
 Target: Marine water - Value: 0.32 mg/l
 Target: Intermittent emission - Value: 0.32 mg/l
 Target: Freshwater sediments - Value: 12.46 mg/kg
 Target: Marine water sediments - Value: 12.46 mg/kg
 Target: Microorganisms in sewage treatments - Value: 6.58 mg/l
 Target: Soil (agricultural) - Value: 2.31 mg/kg

ethyl acetate - CAS: 141-78-6
 Target: Fresh Water - Value: 0.24 mg/l
 Target: Marine water - Value: 0.024 mg/l
 Target: Intermittent emission - Value: 1.65 mg/l
 Target: Microorganisms in sewage treatments - Value: 650 mg/l
 Target: Freshwater sediments - Value: 1.15 mg/kg
 Target: Marine water sediments - Value: 0.115 mg/kg
 Target: Soil (agricultural) - Value: 0.148 mg/kg
 Target: Food chain - Value: 200 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-hydroxy-4-methylpentan-2-one; diacetone alcohol - CAS: 123-42-2
 Target: Fresh Water - Value: 2 mg/l
 Target: Marine water - Value: 0.2 mg/l
 Target: Freshwater sediments - Value: 9.06 mg/kg
 Target: Marine water sediments - Value: 0.91 mg/kg
 Target: Intermittent emission - Value: 1 mg/l
 Target: Microorganisms in sewage treatments - Value: 82 mg/l
 Target: Soil (agricultural) - Value: 0.63 mg/kg

4-methylpentan-2-one; isobutyl methyl ketone - CAS: 108-10-1
 Target: Fresh Water - Value: 0.6 mg/l
 Target: Freshwater sediments - Value: 0.27 mg/kg
 Target: Microorganisms in sewage treatments - Value: 27.5 mg/l
 Target: Soil (agricultural) - Value: 1.3 mg/kg

Appropriate engineering controls:

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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:	colourless fluid
Odour:	typical
Odour threshold:	N.D.
pH:	N.A.
Melting point / freezing point:	N.D. °C
Initial boiling point and boiling range:	> 77 °C
Solid/gas flammability:	N.A.
Upper/lower flammability or explosive limits:	7.0% - 0.9% Vol. (Xylene)
Vapour density:	> 1
Flash point:	< 0 °C
Evaporation rate:	N.D.
Vapour pressure:	N.D. (20 °C)
Relative density:	0.870 - 0.880
Solubility in water:	partial
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:
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 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

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- 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
Not classified
No data available for the product
- h) STOT-single exposure
The product is classified: STOT SE 3 H335;STOT SE 3 H336
- i) STOT-repeated exposure
The product is classified: STOT RE 2 H373
- j) aspiration hazard
The product is classified: Asp. Tox. 1 H304

Toxicological information of the main substances found in the product:

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

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 3523 mg/kg
 Test: LD50 - Route: Oral - Species: Mouse = 5627 mg/kg
 Test: LC50 - Route: Inhalation - Species: Rat = 6700 Ppm - Duration: 4h
 Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg

ethyl acetate - CAS: 141-78-6

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 4934 mg/kg - Source: OCSE 401
 Test: LD50 - Route: Skin - Species: Rabbit > 20000 mg/kg

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-hydroxy-4-methylpentan-2-one; diacetone alcohol - CAS: 123-42-2

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 3002 mg/kg
 Test: LD50 - Route: Skin - Species: Rat > 1875 mg/kg

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

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.

ethyl acetate - CAS: 141-78-6

The product is extremely volatile and provokes for inhalation,irritation to respiratories tracts.Acute exposition can cause depression of central nervous system whit effects such as drowsiness,reflex loss,narcosis.

4-hydroxy-4-methylpentan-2-one; diacetone alcohol - CAS: 123-42-2

The product is irritating for eyes and for the superior respiratory tract.

The acute toxicity shows itself to enviromental concentrations of 100 ppm with irritation to eyes,nose end throat end with pulmonary troubles at 400 ppm.

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.

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

None.

Substance(s) listed on the IARC Monographs:

xylene [4] - Group 3

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

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

None.

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

None.

12. ECOLOGICAL INFORMATION

Ecotoxicity

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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

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 = 4.3 mg/l - Duration h: 72

Endpoint: EC50 - Species: Daphnia = 1 mg/l - Duration h: 24

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish > 1.3 mg/l - Notes: 56d

Endpoint: NOEC - Species: Daphnia = 1.57 mg/l - Notes: 21d

ethyl acetate - CAS: 141-78-6

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Algae > 100 mg/l - Duration h: 72

Endpoint: EC50 - Species: Daphnia = 165 mg/l - Duration h: 48

Endpoint: LC50 - Species: Fish = 230 mg/l - Duration h: 96

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia = 2.4 mg/l - Notes: 21d

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)

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

Endpoint: LC50 - Species: Fish > 179 mg/l - Duration h: 96 - Notes: OCSE 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

Persistence and degradability

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

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-hydroxy-4-methylpentan-2-one; diacetone alcohol - CAS: 123-42-2

Biodegradability: Readily biodegradable - Test: N.A. - Duration h: 28 days - %: 98.51 - Notes: OECD 301 A

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

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

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

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ADR-Shipping Name:	PAINT RELATED MATERIAL
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 related material
IATA-Shipping Name:	PAINT RELATED MATERIAL
IATA-Technical name:	Paint related material
IMDG-Shipping Name:	PAINT RELATED MATERIAL
IMDG-Shipping name:	Paint related material
Transport hazard class(es)	
ADR-Class:	3
DOT Hazard Class:	3
ADR - Hazard identification number:	33
IATA-Class:	3
IATA-Label:	3
IMDG-Class:	3
IMDG-Class:	3
Packing group	
ADR-Packing Group:	II
DOT Packing group:	II
IATA-Packing group:	II
IMDG-Packing group:	II
Environmental hazards	
ADR-Environmental Pollutant:	No
IMDG-Marine pollutant:	No
Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)	
N.A.	
Special precautions	
Rail (RID):	3
DOT Special provisions:	149, 367, 383, B52, B131, IB2, T4, TP1, TP8, TP28
ADR-Subsidiary risks:	-
ADR-S.P.:	163 367 640D 650
ADR-Transport category (Tunnel restriction code):	2 (D/E)
IATA-Passenger Aircraft:	353
IATA-Subsidiary risks:	-
IATA-Cargo Aircraft:	364
IATA-S.P.:	A3 A72 A192
IATA-ERG:	3L
IMDG-EmS:	F-E , S-E
IMDG-Subsidiary risks:	-
IMDG-Stowage and handling:	Category A
IMDG-Segregation:	-

15. REGULATORY INFORMATION

USA - Federal regulations

TSCA - Toxic Substances Control Act

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

TSCA listed substances:

xylene [4] is listed in TSCA Section 8b

ethyl acetate is listed in TSCA Section 8b

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

4-hydroxy-4-methylpentan-2-one; diacetone alcohol is listed in TSCA Section 8a - PAIR, Section 8b, Section 8d HSDR

4-methylpentan-2-one; isobutyl methyl ketone 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], ethyl acetate, isobutyl acetate [2], 4-methylpentan-2-one; isobutyl methyl ketone.

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

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

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

ethyl acetate - Reportable quantity: 5000 pounds

isobutyl acetate [2] - Reportable quantity: 5000 pounds

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

Reportable quantity for mixture: 285.7142857 pounds.

CAA - Clean Air Act

CAA listed substances:

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

ethyl acetate is listed in CAA Section 111

isobutyl acetate [2] is listed in CAA Section 111

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4-hydroxy-4-methylpentan-2-one; diacetone alcohol 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.

CWA - Clean Water Act

CWA listed substances:

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

ethyl acetate is listed in CWA Section 304

isobutyl acetate [2] is listed in CWA Section 311

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

USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:

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:

xylene [4]

ethyl acetate

isobutyl acetate [2]

4-hydroxy-4-methylpentan-2-one; diacetone alcohol

4-methylpentan-2-one; isobutyl methyl ketone.

New Jersey Right to know

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

xylene [4]

ethyl acetate

isobutyl acetate [2]

4-hydroxy-4-methylpentan-2-one; diacetone alcohol

4-methylpentan-2-one; isobutyl methyl ketone.

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

xylene [4]

ethyl acetate

isobutyl acetate [2]

4-hydroxy-4-methylpentan-2-one; diacetone alcohol

4-methylpentan-2-one; isobutyl methyl ketone.

Volatile Organic compounds - VOCs = 100.00 %

Volatile Organic compounds - VOCs = 880.00 g/l

Volatile CMR substances = 0.00 %

Organic Carbon - C = 0.71

16. OTHER INFORMATION

Full text of phrases referred to in Section 3:

H226 Flammable liquid and vapour.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

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

H304 May be fatal if swallowed and enters airways.

H225 Highly flammable liquid and vapour.

H336 May cause drowsiness or dizziness.

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Disclaimer:

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. The information relates only to the specific material and may not be valid for such material used in combination with any other material or in any process.

This Safety Data Sheet cancels and replaces any preceding release.

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

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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