

Safety Data Sheet



LZD442 DILUENTE Dilatante Medio - Wetting Thinner medium

Safety Data Sheet dated 4/24/2018, version 1

1. IDENTIFICATION

Product identifier

Mixture identification:

Trade name:

DILUENTE Dilatante Medio - Wetting Thinner medium

Other means of identification:

Trade code:

LZD442

Recommended use of the chemical and restrictions on use

Recommended use:

Industrial and professional uses (SU3 - SU22)

Thinner for paints and varnishes

Solvent

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 if inhaled.

⚠ Warning, Eye Irrit. 2A, Causes serious eye irritation.

⚠ Warning, STOT SE 3, May cause respiratory irritation.

Label elements

Hazard pictograms:



Danger

Hazard statements:

H225 Highly flammable liquid and vapour.

H332 Harmful if inhaled.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

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.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash ... Thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

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

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

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to do. Continue rinsing.
P312 Call a POISON CENTER/doctor/... if you feel unwell.
P337+P313 If eye irritation persists: Get medical advice/attention.
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:



3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Identification of the substance

Trade code: LZD442

Product type and use: Thinner for paints and varnishes

>= 90% 4-methylpentan-2-one; isobutyl methyl ketone

REACH No.: 01-2119473980-30, Index number: 606-004-00-4, CAS: 108-10-1, EC: 203-550-1



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

Mixtures

N.A.

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:

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Do NOT induce vomiting.
In case of Inhalation:
If breathing is irregular or stopped, administer artificial respiration.
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.

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

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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

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

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:

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:	- 84 °C
Initial boiling point and boiling range:	116 - 118 °C
Solid/gas flammability:	N.A.
Upper/lower flammability or explosive limits:	7.5% - 1.4% Vol.
Vapour density:	> 1
Flash point:	14 °C
Evaporation rate:	N.D.
Vapour pressure:	20.9 hP (20°C) (20 °C)
Relative density:	0.798 - 0.802
Solubility in water:	14,1 gr/l
Solubility in oil:	partial
Partition coefficient (n-octanol/water):	1,9
Auto-ignition temperature:	448 - 460 °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.

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- 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 substance:

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a) acute toxicity

The product is classified: Acute Tox. 4 H332

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

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

Not classified

No data available for the product

h) STOT-single exposure

The product is classified: STOT SE 3 H335

i) STOT-repeated exposure

Not classified

No data available for the product

j) aspiration hazard

Not classified

No data available for the product

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:

No.

Substance(s) listed on the IARC Monographs:

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

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

No.

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

No.

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

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

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

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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: 1245
 DOT number: UN1245
 IATA-UN Number: 1245
 IMDG-UN Number: 1245
 UN proper shipping name
 ADR-Shipping Name: METHYL ISOBUTYL KETONE
 DOT-Shipping Name: Methyl isobutyl ketone
 ADR-Technical Name: Methyl isobutyl Ketone
 IATA-Shipping Name: METHYL ISOBUTYL KETONE
 IATA-Technical name: Methyl isobutyl Ketone
 IMDG-Shipping Name: METHYL ISOBUTYL KETONE
 IMDG-Shipping name: Methyl isobutyl Ketone
 Transport hazard class(es)
 ADR-Class: 3
 DOT Hazard Class: 3
 ADR - Hazard identification number: 33
 IATA-Class: 3
 IATA-Label: 3
 IMDG-Class: 3
 IMDG-Class: 3
 Packing group
 ADR-Packing Group: II
 DOT Packing group: II
 IATA-Packing group: II
 IMDG-Packing group: II
 Environmental hazards
 ADR-Enviromental Pollutant: No
 IMDG-Marine pollutant: No
 Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)
 N.A.
 Special precautions
 Rail (RID): 3
 DOT Special provisions: IB2, T4, TP1
 ADR-Subsidiary risks: -
 ADR-S.P.: -
 ADR-Transport category (Tunnel restriction code): 2 (D/E)
 IATA-Passenger Aircraft: 353
 IATA-Subsidiary risks: -
 IATA-Cargo Aircraft: 364
 IATA-S.P.: -
 IATA-ERG: 3L
 IMDG-EmS: F-E , S-D
 IMDG-Subsidiary risks: -
 IMDG-Stowage and handling: Category B
 IMDG-Segregation: -

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15. REGULATORY INFORMATION

USA - Federal regulations

TSCA - Toxic Substances Control Act

This substance is listed on the TSCA inventory.

TSCA listed substances:

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.

Section 304 – Hazardous substances: Yes.

Section 313 – Toxic chemical list: Yes.

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA: 4-methylpentan-2-one; isobutyl methyl ketone - Reportable quantity: 5000 pounds.

CAA - Clean Air Act

CAA listed substances:

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:

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:

Yes.

New Jersey Right to know

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

Yes.

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

Yes.

Volatile Organic compounds - VOCs = 100.00 %

Volatile Organic compounds - VOCs = 801.00 g/l

Volatile CMR substances = 0.00 %

Organic Carbon - C = 0.72

16. OTHER INFORMATION

Full text of phrases referred to in Section 3:

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H332 Harmful if inhaled.

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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
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.

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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