

Safety Data Sheet

DPU530 - Diluente PU per lucidi



Safety Data Sheet dated 14/6/2017, version 4

SECTION 1: Identification of the substance/mixture and of the company/undertaking





- 1.1. Product identifier
Mixture identification:
Trade name: Diluente PU per lucidi
Trade code: DPU530
- 1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended use: Auxiliary for surface coating

- 1.3. Details of the supplier of the safety data sheet
Company:

Sirca S.p.A.
Address:
Viale Roma, 85
35010 S.Dono di Massanzago (PD) - ITALY
Tel. +39 0499322311
Competent person responsible for the safety data sheet:
safety@sirca.it
- 1.4. Emergency telephone number

Sirca S.p.A. +39 049 9322311 (08.00 - 17.00) From Monday to Friday

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture
EC regulation criteria 1272/2008 (CLP):
 Danger, Flam. Liq. 2, Highly flammable liquid and vapour.
 Warning, Acute Tox. 4, Harmful if inhaled.
 Warning, Eye Irrit. 2, Causes serious eye irritation.
 Warning, STOT SE 3, May cause respiratory irritation.
 EUH066 Repeated exposure may cause skin dryness or cracking.
 Adverse physicochemical, human health and environmental effects:
 No other hazards known
- 2.2. 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, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P243 Take precautionary measures against static discharge.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P370+P378 In case of fire: Use CO2, Foam, Chemical powders to extinguish.
- Special Provisions:
EUH066 Repeated exposure may cause skin dryness or cracking.
- Contains
4-methylpentan-2-one; isobutyl methyl ketone
- Special provisions according to Annex XVII of REACH and subsequent amendments:
None
- 2.3. Other hazards

Other Hazards:
No other hazards known

SECTION 3: Composition/information on ingredients

- 3.1. Substances
N.A.

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3.2. Mixtures

- Hazardous components within the meaning of the CLP regulation and related classification:
- >= 48% - < 75% 4-methylpentan-2-one; isobutyl methyl ketone
REACH No.: 01-2119473980-30-xxxx, Index number: 606-004-00-4, CAS: 108-10-1, EC: 203-550-1
 - ⚠ 2.6/2 Flam. Liq. 2 H225
 - ⚠ 3.3/2 Eye Irrit. 2 H319
 - ⚠ 3.8/3 STOT SE 3 H335
 - ⚠ 3.1/4/Inhal Acute Tox. 4 H332
 - EUH066
 - >= 25% - < 48% 2-methoxy-1-methylethyl acetate
REACH No.: 01-2119475791-29-xxxx, Index number: 607-195-00-7, CAS: 108-65-6, EC: 203-603-9
 - ⚠ 2.6/3 Flam. Liq. 3 H226
 - >= 0.1% - < 0.2% 2-methoxypropyl acetate
Index number: 607-251-00-0, CAS: 70657-70-4, EC: 274-724-2
 - ⚠ 2.6/3 Flam. Liq. 3 H226
 - ⚠ 3.7/1B Repr. 1B H360
 - ⚠ 3.8/3 STOT SE 3 H335

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.
Wash thoroughly the body (shower or bath).
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:

Induce vomiting only on doctor's advice

In case of Inhalation:

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

4.2. Most important symptoms and effects, both acute and delayed

Contact a poisons centre

4.3. Indication of any 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).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:
In case of fire: Use CO₂, Foam, Chemical powders to extinguish.
Extinguishing media which must not be used for safety reasons:
None in particular.

5.2. Special hazards arising from the substance or mixture

Combustion may liberate toxic or very toxic gases. Do not breathe fumes.
Do not inhale explosion and combustion gases.
Burning produces heavy smoke.

5.3. Advice for firefighters

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.

SECTION 6: Accidental release measures

6.1. 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.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
Retain contaminated washing water and dispose it.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.



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Suitable material for taking up: absorbing material, organic, sand
Eliminate all unguarded flames and possible sources of ignition. Do not smoke.

- 6.3. Methods and material for containment and cleaning up
Collect the spilled product with no-sparking tools.

Recover the product for re-use if possible, or for elimination. The product might, where appropriate, be absorbed by inert material.
After the product has been recovered, rinse the area and materials involved with water.

- 6.4. Reference to other sections
See also section 8 and 13

SECTION 7: Handling and storage

- 7.1. Precautions for safe handling
Keep away from flame and sparks. Avoid accumulating electrostatic charge.
Place recipients on the ground whilst decanting, and wear anti-static clothing and shoes.
Avoid contact with skin and eyes, inhalation of vapours and mists.
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.
Do not smoke while working.
See also section 8 for recommended protective equipment.
- 7.2. Conditions for safe storage, including any incompatibilities
Store at below 30 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.
Keep away from food, drink and feed.
Incompatible materials:
None in particular.
Instructions as regards storage premises:
Cool and adequately ventilated.
Safety electric system.
- 7.3. Specific end use(s)
No further recommendations. Refer to point 1.2

SECTION 8: Exposure controls/personal protection

- 8.1. Control parameters
4-methylpentan-2-one; isobutyl methyl ketone - CAS: 108-10-1
(OEL (IT)) - TWA(8h): 83 mg/m³, 20 ppm - STEL: 208 mg/m³, 50 ppm - Behaviour: Binding
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-methoxy-1-methylethyl acetate - CAS: 108-65-6
(OEL (IT)) - TWA(8h): 275 mg/m³, 50 ppm - STEL: 550 mg/m³, 100 ppm - Behaviour: Binding - Notes: Pelle
EU - TWA(8h): 275 mg/m³, 50 ppm - STEL: 550 mg/m³, 100 ppm - Notes: Skin
- DNEL Exposure Limit Values
4-methylpentan-2-one; isobutyl methyl ketone - CAS: 108-10-1
Worker Industry: 208 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term (acute)
Worker Industry: 208 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects
Worker Industry: 11.8 mg/kg - Exposure: Human Dermal - Frequency: Long Term (repeated)
Worker Industry: 83 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term (repeated)
Worker Industry: 83 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects
Consumer: 155.2 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term (acute)
Consumer: 155.2 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects
Consumer: 4.2 mg/kg - Exposure: Human Dermal - Frequency: Long Term (repeated)
Consumer: 14.7 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term (repeated)
Consumer: 4.2 mg/kg - Exposure: Human Oral - Frequency: Long Term (repeated)
- 2-methoxy-1-methylethyl acetate - CAS: 108-65-6
Worker Professional: 153.5 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Professional: 275 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 54.8 mg/kg/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 33 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 1.67 mg/kg/day - Exposure: Human Oral - 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: Marine water - Value: 0.06 mg/l
Target: Freshwater sediments - Value: 8.27 mg/kg
Target: Marine water sediments - Value: 0.83 mg/kg
Target: Soil (agricultural) - Value: 1.3 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: Marine water sediments - Value: 0.329 mg/kg - Notes: dry
Target: Freshwater sediments - Value: 3.29 mg/kg - Notes: dry

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Target: Soil (agricultural) - Value: 0.29 mg/kg - Notes: dry

Target: STP - Value: 100 mg/l

8.2. Exposure controls

Eye protection:

Use eye protection devices. Example: closed safety visors, goggles with side protection. Do not wear contact lenses.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Because of the synergetic effect of the substances contained in the formulation it is not possible to identify a unique material that can resist to their fusion. Multi - layer protective gloves can be suitable for mixes of substances. Pay attention to the data about grade of protection and of permeation rate furnished by the producer of the gloves about the substances listed on point 3 of this sheet.

Respiratory protection:

Use adequate protective respiratory equipment, e.g. A2 or A2P2 or A2P3.

Thermal Hazards:

None known

Environmental exposure controls:

None known

Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|--------------------|
| Appearance and colour: | liquid |
| Odour: | characteristic |
| Odour threshold: | N.A. |
| pH: | N.A. |
| Melting point / freezing point: | < 1°C |
| Initial boiling point and boiling range: | > 55°C |
| Solid/gas flammability: | N.A. |
| Upper/lower flammability or explosive limits: | N.A. |
| Vapour density: | N.A. |
| Flash point: | < 23°C (< 73.4 °F) |
| Evaporation rate: | N.A. |
| Vapour pressure: | N.A. |
| Relative density: | 0.8510 Kg/l a 20°C |
| Solubility in water: | N.A. |
| Solubility in oil: | N.A. |
| Partition coefficient (n-octanol/water): | N.A. |
| Auto-ignition temperature: | > 250°C |
| Decomposition temperature: | N.A. |

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|-----------------------|------|
| Explosive properties: | N.A. |
| Oxidizing properties: | N.A. |

9.2. Other information

| | |
|--------------------------------------|------|
| Miscibility: | N.A. |
| Fat Solubility: | N.A. |
| Conductivity: | N.A. |
| Substance Groups relevant properties | N.A. |

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

No dangerous reaction is stored and used appropriately.

10.4. Conditions to avoid

Avoid accumulating electrostatic charge.

Vapours can form explosive mixtures with air.

10.5. Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

10.6. Hazardous decomposition products

vapours potentially dangerous to health may be released.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information of the product:

N.A.

Toxicological information of the main substances found in the product:

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

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat = 23.29 g/m3



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- Test: LD50 - Route: Oral - Species: Rat = 2080 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat = 8.2 mg/l - Duration: 4h
Test: LD50 - Route: Skin - Species: Rabbit = 2000 mg/kg
2-methoxy-1-methylethyl acetate - CAS: 108-65-6
- a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat = 8532 mg/kg
Test: LC50 - Route: Skin - Species: Rat > 5000 mg/kg
Test: LC50 - Route: Inhalation Mist - Species: Rat > 23.8 mg/l - Duration: 6h
- b) skin corrosion/irritation:
Test: Skin Irritant - Route: Skin - Species: Rabbit Negative

If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.:

- a) acute toxicity;
b) skin corrosion/irritation;
c) serious eye damage/irritation;
d) respiratory or skin sensitisation;
e) germ cell mutagenicity;
f) carcinogenicity;
g) reproductive toxicity;
h) STOT-single exposure;
i) STOT-repeated exposure;
j) aspiration hazard.

SECTION 12: Ecological information

- 12.1. Toxicity
Adopt good working practices, so that the product is not released into the environment.
4-methylpentan-2-one; isobutyl methyl ketone - CAS: 108-10-1
- a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia > 100 mg/l - Duration h: 48
Endpoint: EC50 - Species: Algae > 100 mg/l
2-methoxy-1-methylethyl acetate - CAS: 108-65-6
- a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 96 - Notes: Method OECD linee guide 203
Endpoint: EC50 - Species: Daphnia > 500 mg/l - Duration h: 48 - Notes: Method Direttiva 67/548CEE allegato V,C.2
Endpoint: ErC50 - Species: Algae > 1000 mg/l - Duration h: 72 - Notes: Method OECD TG 209
- 12.2. Persistence and degradability
None known
N.A.
- 12.3. Bioaccumulative potential
N.A.
- 12.4. Mobility in soil
N.A.
- 12.5. Results of PBT and vPvB assessment
vPvB Substances: None - PBT Substances: None
- 12.6. Other adverse effects
None known

SECTION 13: Disposal considerations

- 13.1. Waste treatment 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.
Where applicable, refer to the following regulatory provisions : 91/156/EEC, 91/689/EEC, 94/62/EC and subsequent amendments.

SECTION 14: Transport information

- 14.1. UN number
ADR-UN Number: 1263
IATA-Un number: 1263
IMDG-Un number: 1263
- 14.2. UN proper shipping name
ADR-Shipping Name: PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound)
IATA-Shipping Name: PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound)
IMDG-Shipping Name: PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound)
- 14.3. Transport hazard class(es)
ADR-Class: 3
ADR-Label: 3
ADR - Hazard identification number: 33

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| | |
|--|---|
| IATA-Class: | 3 |
| IATA-Label: | 3 |
| IMDG-Class: | 3 |
| 14.4. Packing group | |
| ADR-Packing Group: | II |
| IATA-Packing group: | II |
| IMDG-Packing group: | II |
| 14.5. Environmental hazards | |
| 14.6. Special precautions for user | |
| ADR-Tunnel Restriction Code: | 2 (D/E) |
| IATA-Passenger Aircraft: | 353 |
| IATA-Cargo Aircraft: | 364 |
| IMDG-Technical name: | PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound) |
| IMDG-EMS: | F-E , <u>S-E</u> |
| 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code | No |

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
 Dir. 98/24/EC (Risks related to chemical agents at work)
 Dir. 2000/39/EC (Occupational exposure limit values)
 Regulation (EC) n. 1907/2006 (REACH)
 Regulation (EC) n. 1272/2008 (CLP)
 Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
 Regulation (EU) 2015/830
 Regulation (EU) n. 286/2011 (ATP 2 CLP)
 Regulation (EU) n. 618/2012 (ATP 3 CLP)
 Regulation (EU) n. 487/2013 (ATP 4 CLP)
 Regulation (EU) n. 944/2013 (ATP 5 CLP)
 Regulation (EU) n. 605/2014 (ATP 6 CLP)
 Regulation (EU) n. 2015/1221 (ATP 7 CLP)
 Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:
 None
 Where applicable, refer to the following regulatory provisions :
 Directive 82/501/EEC ('Activities linked to risks of serious accidents') and subsequent amendments.
 Regulation (EC) nr 648/2004 (detergents).
 Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work.
 1999/13/EC (VOC directive)
 Directive 1999/13/CE

| | | |
|---|-------|------|
| Total Volatile Organic Compounds (typical value): | 100 % | |
| Total Volatile Organic Carbon (typical value): | | 65 % |
| Total solids content: | 0 % | |

15.2. Chemical safety assessment
 No

SECTION 16: Other information

Text of phrases referred to under heading 3:
 H225 Highly flammable liquid and vapour.
 H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.
 H332 Harmful if inhaled.
 EUH066 Repeated exposure may cause skin dryness or cracking.
 H226 Flammable liquid and vapour.
 H360 May damage fertility or the unborn child.
 Paragraphs modified from the previous revision:

SECTION 9: Physical and chemical properties

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities
 SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eighth Edition - Van Nostrand Reinold
 ACGIH - Threshold Limit Values - 2004 edition

RESTRICTED TO PROFESSIONAL USERS

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and



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constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

| | |
|-------------|--|
| 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. |
| GefStoffVO: | Ordinance on Hazardous Substances, Germany. |
| GHS: | Globally Harmonized System of Classification and Labeling of Chemicals. |
| 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. |
| LTE: | Long-term exposure. |
| PNEC: | Predicted No Effect Concentration. |
| RID: | Regulation Concerning the International Transport of Dangerous Goods by Rail. |
| STE: | Short-term exposure. |
| STEL: | Short Term Exposure limit. |
| STOT: | Specific Target Organ Toxicity. |
| TLV: | Threshold Limiting Value. |
| TWATLV: | Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard). |
| WGK: | German Water Hazard Class. |
| N.A.: | N.A. |
| N.D.: | N.A. |

End of Safety Data Sheet

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Label model

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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, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P243 Take precautionary measures against static discharge.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P370+P378 In case of fire: Use CO₂, Foam, Chemical powders to extinguish.

Special Provisions:

EUH066 Repeated exposure may cause skin dryness or cracking.

Contains

4-methylpentan-2-one; isobutyl methyl ketone



Quantity: Company: