

**Safety Data Sheet**
according to Regulation (EG) Nmr. 1907/2006
MICACEOUS SPRAY

Safety Data Sheet dated 3/3/2014, version 1

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

1.1. Product identifier

Mixture identification:

Trade name: MICACEO ALTO SPESSORE SPRAY

Trade code: 40.000

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use:

Spray painting decorative household, industrial and professional

1.3. Details of the supplier of the safety data sheet

Company:

Como Tempera d.o.o., Avelina Turka 2b, 51000 Rijeka, Croatia

Telephone: +385(0)51 273 864; Fax: +385(0)51 273 859; e-mail: info@comotemper.hr

1.4. Emergency telephone number

Emergency telephone: 112

Phone number for medical informations: + 385/1/2348 342 Zagreb, HR

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Directive criteria, 67/548/CE, 99/45/EC and following amendments thereof:

Properties / Symbols:

F+ Extremely flammable

Xi Irritant

R Phrases:

R12 Extremely flammable.

R36 Irritating to eyes.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

EC regulation criteria 1272/2008 (CLP):

Danger, Flam. Aerosol 1, Extremely flammable aerosol.

Warning, Skin Irrit. 2, Causes skin irritation.

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

Warning, STOT SE 3, May cause drowsiness or dizziness.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Symbols:

**Safety Data Sheet**
according to Regulation (EG) Nmr. 1907/2006
MICACEOUS SPRAY

Danger

Hazard statements:

- H222 Extremely flammable aerosol.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.

Precautionary statements:

- P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
- P211 Do not spray on an open flame or other ignition source.
- P251 Pressurized container: Do not pierce or burn, even after use.
- P271 Use only outdoors or in a well-ventilated area.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.
- P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

- AEROSOL Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.
- PRUDAEROSOL1 Extremely flammable aerosol. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of reach of children.

Contents:

methyl acetate

Special provisions according to Annex XVII of REACH and subsequent amendments:

None.

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of EEC directive 67/548 and CLP regulation and related classification:

>= 25% - < 30% methyl acetate


REACH No.: 01-2119459211-47-XXXX, Index number: 607-021-00-X, CAS: 79-20-9, EC: 201-185-2

F,Xi; R11-36-66-67


 2.6/2 Flam. Liq. 2 H225 3.3/2 Eye Irrit. 2 H319 3.8/3 STOT SE 3 H336


>= 15% - < 20% propane

**Safety Data Sheet**
according to Regulation (EG) Nmr. 1907/2006
MICACEOUS SPRAY

Index number: 601-003-00-5, CAS: 74-98-6, EC: 200-827-9
F+; R12; substance with a Community workplace exposure limit
 2.2/1 Flam. Gas 1 H220

>= 10% - < 12.5% o-xylene


Index number: 601-022-00-9, CAS: 1330-20-7, EC: 215-535-7
Xn,Xi; R10-20/21-38
 2.6/3 Flam. Liq. 3 H226

 3.1/4/Dermal Acute Tox. 4 H312


 3.1/4/Inhal Acute Tox. 4 H332

 3.2/2 Skin Irrit. 2 H315

>= 7% - < 10% butane


Index number: 601-004-00-0, CAS: 106-97-8, EC: 203-448-7
F+; R12; substance with a Community workplace exposure limit
 2.2/1 Flam. Gas 1 H220

>= 7% - < 10% n-butyl acetate

Index number: 607-025-00-1, CAS: 123-86-4, EC: 204-658-1
R10-66-67; substance with a Community workplace exposure limit
 2.6/3 Flam. Liq. 3 H226


 3.8/3 STOT SE 3 H335

>= 3% - < 5% butane

Index number: 601-004-00-0, CAS: 75-28-5, EC: 200-857-2
F+; R12; substance with a Community workplace exposure limit
 2.2/1 Flam. Gas 1 H220

>= 1% - < 3% methanol

REACH No.: 01-2119433307-44-XXXX, Index number: 603-001-00-X, CAS: 67-56-1, EC:
200-659-6
F,T; R11-23/24/25-39/23/24/25

 2.6/2 Flam. Liq. 2 H225

 3.1/3/Dermal Acute Tox. 3 H311

 3.1/3/Inhal Acute Tox. 3 H331

 3.1/3/Oral Acute Tox. 3 H301

 3.8/1 STOT SE 1 H370



Safety Data Sheet according to Regulation (EG) Nmr. 1907/2006 MICACEOUS SPRAY

>= 0.5% - < 1% 2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve
REACH No.: 01-2119475108-36-XXXX, Index number: 603-014-00-0, CAS: 111-76-2, EC:
203-905-0

Xn,Xi; R20/21/22-36/38

3.1/4/Dermal Acute Tox. 4 H312

3.1/4/Inhal Acute Tox. 4 H332

3.1/4/Oral Acute Tox. 4 H302

3.2/2 Skin Irrit. 2 H315

3.3/2 Eye Irrit. 2 H319

>= 0.25% - < 0.5% Low boiling point hydrogen treated naphtha
Index number: 649-327-00-6, CAS: 64742-48-9, EC: 265-150-3

Xn; R10-66-65

2.6/3 Flam. Liq. 3 H226

3.10/1 Asp. Tox. 1 H304

>= 0.25% - < 0.5% Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified;
[A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consist

Index number: 649-356-00-4, CAS: 64742-95-6, EC: 265-199-0

Xn,Xi,N; R51/53-37-10-65-66-67

2.6/3 Flam. Liq. 3 H226

3.8/3 STOT SE 3 H335

3.10/1 Asp. Tox. 1 H304

3.8/3 STOT SE 3 H336

4.1/C2 Aquatic Chronic 2 H411

DECLP*

*DECLP: Substance classified accordingly to Note P of the Annex I of directive 67/548/EEC. The classification as a carcinogen need not apply if it can be shown that the substance contains less than 0.1% weight/weight of benzene

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

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).



Safety Data Sheet according to Regulation (EG) Nmr. 1907/2006 MICACEOUS SPRAY

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.

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

None

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).

Treatment:

None

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

In case of fire, use vaporized water or foam.

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

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.

Remove persons to safety.

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.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13



Safety Data Sheet according to Regulation (EG) Nmr. 1907/2006 MICACEOUS SPRAY

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Avoid contact with skin and eyes, inhalation of vapours and mists.
- 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.

7.2. 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.
- Keep away from food, drink and feed.
- Incompatible materials:
None in particular.
- Instructions as regards storage premises:
Cool and adequately ventilated.

7.3. Specific end use(s)

- None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

- methyl acetate - CAS: 79-20-9
ACGIH, 200 ppm, 250 ppm
- propane - CAS: 74-98-6
TLV TWA - 1000 ppm - 0 mg/m³
VLE short - 1000 ppm
- o-xylene - CAS: 1330-20-7
ACGIH, 100 ppm, 150 ppm - Notes: Skin
EU - LTE(8h): 221 mg/m³, 50 ppm - STE(15 min): 442 mg/m³, 100 ppm - Notes: Skin
- butane - CAS: 106-97-8
TLV TWA - 1000 ppm
- n-butyl acetate - CAS: 123-86-4
TLV TWA - ppm 150
TLV STEL - ppm 200
- butane - CAS: 75-28-5
TLV TWA - 1000 ppm - 0 mg/m³
VLE short - 1000 ppm
- methanol - CAS: 67-56-1
ACGIH, 200 ppm, 250 ppm - Notes: SKIN
VLE 8h - ppm 200 mg/m³ 260 ,Skin
- 2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve - CAS: 111-76-2
ACGIH, 20 ppm - Notes: SKIN
EU - LTE(8h): 98 mg/m³, 20 ppm - STE(15 min): 246 mg/m³, 50 ppm - Notes: SKIN

DNEL Exposure Limit Values

N.A.

PNEC Exposure Limit Values

N.A.

8.2. Exposure controls

Eye protection:

- Use close fitting safety goggles, don't use eye lens.



Safety Data Sheet according to Regulation (EG) Nmr. 1907/2006 MICACEOUS SPRAY

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Use adequate protective respiratory equipment.

Thermal Hazards:

None

Environmental exposure controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance and colour: Liquid aspect (under pressure), various colours.

Odour: Characteristic of solvent

Odour threshold: N.A.

pH: N.A.

Melting point / freezing point: N.A.

Initial boiling point and boiling range: N.A.

Solid/gas flammability: Extremely flammable

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.A.

Flash point: Inf. 0 ° C

Evaporation rate: N.A.

Vapour pressure: a 20°C - 4,0 bar a 50°C - 8,0 bar

Relative density: 0,75 - 0,80 g/ml

Solubility in water: NO

Solubility in oil: SI

Partition coefficient (n-octanol/water): N.A.

Auto-ignition temperature: N.A.

Decomposition temperature: N.A.

Viscosity: N.A.

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

None

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials



Safety Data Sheet according to Regulation (EG) Nmr. 1907/2006 MICACEOUS SPRAY

- Avoid contact with combustible materials. The product could catch fire.
- 10.6. Hazardous decomposition products
None.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information of the mixture:

N.A.

Toxicological information of the main substances found in the mixture:

Low boiling point hydrogen treated naphtha - CAS: 64742-48-9

a) acute toxicity:

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

Test: LD50 - Route: Skin - Species: Rabbit > 3000 mg/kg

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified; [A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consist - CAS: 64742-95-6

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 6800 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 3400 mg/kg

methyl acetate - CAS: 79-20-9

LD50 (RABBIT) ORAL: 3705 MG/KG

o-xylene - CAS: 1330-20-7

LD50 (RAT) ORAL: 5000 MG/KG

methanol - CAS: 67-56-1

LD50 (RAT) ORAL SINGLE DOSE: 5628 MG/KG

LD50 (RABBIT) SKINSINGLE DOSE: 15800 MG/KG

If not differently specified, the information required in Regulation 453/2010/EC 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.

N.A.

12.2. Persistence and degradability

None

N.A.

12.3. Bioaccumulative potential



Safety Data Sheet according to Regulation (EG) Nmr. 1907/2006 MICACEOUS SPRAY

- 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

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.

SECTION 14: Transport information

- 14.1. UN number
ADR-UN number: 1950
IATA-Un number: 1950
IMDG-Un number: 1950
- 14.2. UN proper shipping name
ADR-Shipping Name: *ENTER PROPER SHIPPING NAME*
ADR-Shipping Name: AEROSOL
IATA-Shipping Name: *ENTER PROPER SHIPPING NAME*
IATA-Technical name: AEROSOL
IMDG-Shipping Name: *ENTER PROPER SHIPPING NAME*
IMDG-Technical name: AEROSOL
- 14.3. Transport hazard class(es)
ADR-Class: 2 5F
IATA-Class: 2.1
IATA-Label: 2.1
IMDG-Class: 2
IMDG-Class: 2
- 14.4. Packing group
ADR-Packing Group: -
IATA-Packing group: -
- 14.5. Environmental hazards
Marine pollutant: Marine pollutant
- 14.6. Special precautions for user
IATA-Passenger Aircraft: ----
IATA-Cargo Aircraft: 203
IMDG-Page: F-D, S-U
- 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
N.A.

SECTION 15: Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Dir. 67/548/EEC (Classification, packaging and labelling of dangerous substances)
Dir. 99/45/EC (Classification, packaging and labelling of dangerous preparations)
Dir. 98/24/EC (Risks related to chemical agents at work)



Safety Data Sheet according to Regulation (EG) Nmr. 1907/2006 MICACEOUS SPRAY

Dir. 2000/39/EC (Occupational exposure limit values)
Dir. 2006/8/EC
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) n. 453/2010 (Annex I)
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

None

Volatile Organic compounds - VOCs = 590.25 g/l

Volatile CMR substances = 0.00 %

Halogenated VOCs which are assigned the risk phrase R40 = 0.00 %

Organic Carbon - C = 0.00

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).

1999/13/EC (VOC directive)

15.2. Chemical safety assessment

No

SECTION 16: Other information

Text of phrases referred to under heading 3:

R10 Flammable.

R11 Highly flammable.

R12 Extremely flammable.

R20/21 Harmful by inhalation and in contact with skin.

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R36 Irritating to eyes.

R36/38 Irritating to eyes and skin.

R37 Irritating to respiratory system.

R38 Irritating to skin.

R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H220 Extremely flammable gas.

H226 Flammable liquid and vapour.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H315 Causes skin irritation.

**Safety Data Sheet**
according to Regulation (EG) Nmr. 1907/2006
MICACEOUS SPRAY

H335 May cause respiratory irritation.
H311 Toxic in contact with skin.
H331 Toxic if inhaled.
H301 Toxic if swallowed.
H370 Causes damage to organs.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H411 Toxic to aquatic life with long lasting effects.

This safety data sheet has been completely updated in compliance to Regulation 453/2010/EU.
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 - Eight Edition - Van
Nostrand Reinold
CCNL - Appendix 1
Insert further consulted bibliography

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

This MSDS 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.
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.



Safety Data Sheet
according to Regulation (EG) Nmr. 1907/2006
MICACEOUS SPRAY

WGK: (ACGIH Standard).
German Water Hazard Class.