

SAFETY DATA SHEET

According to (EC) No. 1907/2006, as amended

| LA LMM-6000 | | GSLA_LMM-6000 Black Paste 250g | |
|-----------------------|---------------------|---------------------------------------|-------------------|
| Product specification | RS_FP_603463 | Revision Date | 18.11.2024 |
| Version | 6.0 | Print Date | 22.02.2025 |
| Material number | 1411218 | Page | Page 1 of 29 |

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

1.1 Product identifier

Product code : **1411218**
Trade name : **LA LMM-6000**
GSLA_LMM-6000 Black Paste 250g

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

Use of the Substance/Mixture : Decorative coating
Uses advised against : Others not identified as relevant use.

1.3 Details of the supplier of the safety data sheet

Company : Vibrantz Corporation
6060 Parkland Blvd. Suite 250
44124-4185 Mayfield Heights
Telephone : +12168755600
Telefax :
E-mail address : PS.Request.americas@vibrantz.com
Responsible/issuing person

1.4 Emergency telephone number

In-Country Number : +(44)-870-8200418
CHEMTREC Global Number : +(1)-703-527-3887 (Call Collect)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 2 H225: Highly flammable liquid and vapour.
Eye irritation, Category 2 H319: Causes serious eye irritation.
Carcinogenicity, Category 2 H351: Suspected of causing cancer.
Specific target organ toxicity - single exposure, Category 3, Respiratory system H335: May cause respiratory irritation.

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2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.

Precautionary statements : **Prevention:**
P201 Obtain special instructions before use.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P261 Avoid breathing mist or vapours.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
Response:
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Hazardous components which must be listed on the label:

Molybdenum(VI) oxide
ammonium metavanadate

Additional Labelling

EUH208 Contains polyaminoamide. May produce an allergic reaction.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : organic solvent
carbonic acid/ester/anhydride
silicatic material
inorganic metal-nonmetal compound
inorganic salt

Components

| Chemical name | CAS-No. EC-No. Index-No. Registration number | Classification | Concentration (% w/w) |
|-----------------------|---|---|--------------------------|
| ethanol | 64-17-5 200-578-6 603-002-00-5 01-2119457610-43- xxxx | Flam. Liq. 2; H225 Eye Irrit. 2; H319 | >= 30 - < 50 |
| Molybdenum(VI) oxide | 1313-27-5 215-204-7 042-001-00-9 01-2119488038-30- xxxx | Eye Irrit. 2; H319 Carc. 2; H351 STOT SE 3; H335 (Respiratory system) | >= 30 - < 50 |
| ethyl acetate | 141-78-6 205-500-4 607-022-00-5 01-2119475103-46- xxxx | Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 (Central nervous system) EUH066 | >= 0,1 - < 10 |
| ammonium metavanadate | 7803-55-6 232-261-3 | Acute Tox. 3; H301 Acute Tox. 4; H332 Eye Irrit. 2; H319 STOT SE 3; H335 (Respiratory system) | >= 0,1 - < 10 |
| 2-butoxyethanol | 111-76-2 203-905-0 603-014-00-0 01-2119475108-36- xxxx | Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 | >= 0,1 - < 10 |

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| | | | |
|-----------------------|---|---|--------------|
| | | 1.200 mg/kg | |
| methanol | 67-56-1 200-659-6 603-001-00-X 01-2119392409-28- xxxx | <p>Flam. Liq. 2; H225 Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 STOT SE 1; H370</p> <hr/> <p>specific concentration limit STOT SE 1; H370 >= 10 % STOT SE 2; H371 3 - < 10 % STOT SE 1; H370 >= 10 % STOT SE 2; H371 3 - < 10 %</p> <hr/> <p>Acute toxicity estimate</p> <p>Acute dermal toxicity: 300 mg/kg</p> | >= 1 - < 3 |
| 4-methylpentan-2-one | 108-10-1 203-550-1 606-004-00-4 | <p>Flam. Liq. 2; H225 Acute Tox. 4; H332 Eye Irrit. 2; H319 Carc. 2; H351 STOT SE 3; H336 (Central nervous system) EUH066</p> <hr/> <p>Acute toxicity estimate</p> <p>Acute inhalation toxicity (vapour): 11 mg/l</p> | >= 0,1 - < 1 |
| polyaminoamide | 162627-17-0 | Skin Sens. 1; H317 | >= 0,1 - < 1 |
| Molybdenum(VI) oxide | 1313-27-5 215-204-7 042-001-00-9 01-2119488038-30- xxxx | <p>Eye Irrit. 2; H319 Carc. 2; H351 STOT SE 3; H335 (Respiratory system)</p> | >= 25 - < 50 |
| ammonium metavanadate | 7803-55-6 232-261-3 | <p>Acute Tox. 3; H301 Acute Tox. 4; H332 Eye Irrit. 2; H319 STOT SE 3; H335 (Respiratory system)</p> | >= 3 - < 10 |

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| | | | |
|--|--|---|---------------|
| | | Acute toxicity estimate Acute oral toxicity: 275,87 mg/kg | |
| 2-butoxyethanol | 111-76-2 203-905-0 603-014-00-0 01-2119475108-36- xxxx | Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 | >= 1 - < 3 |
| | | Acute toxicity estimate Acute oral toxicity: 1.200 mg/kg 1.200 mg/kg | |
| ethyl acetate | 141-78-6 205-500-4 607-022-00-5 01-2119475103-46- xxxx | Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 (Central nervous system) EUH066 | >= 1 - < 3 |
| solvent naphtha (petroleum), light, aromatic | 64742-95-6 265-199-0 649-356-00-4 | Flam. Liq. 3; H226 Asp. Tox. 1; H304 | < 1 |
| Substances with a workplace exposure limit : | | | |
| mica | 12001-26-2 310-127-6 | | >= 0,1 - < 10 |
| propane-1,2-diol | 57-55-6 200-338-0 | | >= 0,1 - < 10 |
| Substances with a workplace exposure limit : | | | |
| ethanol | 64-17-5 200-578-6 603-002-00-5 01-2119457610-43- xxxx | Flam. Liq. 2; H225 Eye Irrit. 2; H319 | >= 25 - < 50 |
| mica | 12001-26-2 310-127-6 | | < 10 |
| propane-1,2-diol | 57-55-6 200-338-0 | | < 10 |

For explanation of abbreviations see section 16.

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SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Do not leave the victim unattended.
Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.

If inhaled : If unconscious, place in recovery position and seek medical advice.

In case of skin contact : Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
If skin irritation persists, call a physician.

In case of eye contact : Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed : Rinse mouth immediately with plenty of water and seek medical advice.
Keep respiratory tract clear.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

Risks : Causes serious eye irritation.
May cause respiratory irritation.
Suspected of causing cancer.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical

Unsuitable extinguishing media : High volume water jet

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5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : No hazardous combustion products are known

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Use a water spray to cool fully closed containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Material can create slippery conditions. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Clean contaminated floors and objects thoroughly while observing environmental regulations. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

For personal protection see section 8.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid release to the environment.
Avoid formation of aerosol.
Do not breathe vapours/dust.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Provide sufficient air exchange and/or exhaust in work rooms.
Open drum carefully as content may be under pressure.
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition. Do not spray on a naked flame or any incandescent material.

Hygiene measures : Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions.

Further information on storage stability : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : Consult the technical guidelines for the use of this substance/mixture.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|----------------------|------------|-------------------------------|--------------------------------------|---------|
| ethanol | 64-17-5 | TWA | 1.000 ppm 1.920 mg/m ³ | GB EH40 |
| Molybdenum(VI) oxide | 1313-27-5 | TWA | 5 mg/m ³ (Molybdenum) | GB EH40 |
| | | STEL | 10 mg/m ³ (Molybdenum) | GB EH40 |
| mica | 12001-26-2 | TWA (Inhalable) | 10 mg/m ³ | GB EH40 |

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| | | | | |
|--|----------|----------------------------------|------------------------|-------------|
| | | TWA (Respirable fraction) | 0,8 mg/m3 | GB EH40 |
| ethyl acetate | 141-78-6 | TWA | 200 ppm 734 mg/m3 | 2017/164/EU |
| Further information: Indicative | | | | |
| | | STEL | 400 ppm 1.468 mg/m3 | 2017/164/EU |
| Further information: Indicative | | | | |
| | | STEL | 400 ppm 1.468 mg/m3 | GB EH40 |
| | | TWA | 200 ppm 734 mg/m3 | GB EH40 |
| 2-butoxyethanol | 111-76-2 | TWA | 20 ppm 98 mg/m3 | 2000/39/EC |
| Further information: Identifies the possibility of significant uptake through the skin, Indicative | | | | |
| | | STEL | 50 ppm 246 mg/m3 | 2000/39/EC |
| Further information: Identifies the possibility of significant uptake through the skin, Indicative | | | | |
| | | TWA | 25 ppm 123 mg/m3 | GB EH40 |
| Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. | | | | |
| | | STEL | 50 ppm 246 mg/m3 | GB EH40 |
| Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. | | | | |
| methanol | 67-56-1 | TWA | 200 ppm 260 mg/m3 | 2006/15/EC |
| Further information: Indicative, Identifies the possibility of significant uptake through the skin | | | | |
| | | TWA | 200 ppm 266 mg/m3 | GB EH40 |
| Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. | | | | |
| | | STEL | 250 ppm 333 mg/m3 | GB EH40 |
| Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. | | | | |
| propane-1,2-diol | 57-55-6 | TWA (Total vapour and particles) | 150 ppm 474 mg/m3 | GB EH40 |
| | | TWA (particles) | 10 mg/m3 | GB EH40 |
| 4-methylpentan-2-one | 108-10-1 | TWA | 20 ppm 83 mg/m3 | 2000/39/EC |
| Further information: Indicative | | | | |
| | | STEL | 50 ppm | 2000/39/EC |

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| | | | | |
|--|------|----------------------|-----------|--|
| | | | 208 mg/m3 | |
| Further information: Indicative | | | | |
| | STEL | 100 ppm 416 mg/m3 | GB EH40 | |
| Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. | | | | |
| | TWA | 50 ppm 208 mg/m3 | GB EH40 | |
| Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. | | | | |

Biological occupational exposure limits

| Substance name | CAS-No. | Control parameters | Sampling time | Basis |
|----------------------|----------|--|---------------|----------------|
| 2-butoxyethanol | 111-76-2 | butoxyacetic acid: 240 Millimoles per mole Creatinine (Urine) | After shift | GB EH40 BAT |
| 4-methylpentan-2-one | 108-10-1 | 4-methylpentan-2-one: 20 micromol per litre (Urine) | After shift | GB EH40 BAT |

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|-----------------|---------|-----------------|----------------------------|------------------|
| ethanol | Workers | Inhalation | Long-term systemic effects | 950 mg/m3 |
| | Workers | Dermal | Long-term systemic effects | 343 mg/kg bw/day |
| 2-butoxyethanol | Workers | Inhalation | Long-term systemic effects | 98 mg/m3 |
| | Workers | Inhalation | Acute systemic effects | 1091 mg/m3 |
| | Workers | Dermal | Long-term systemic effects | 125 mg/kg bw/day |
| | Workers | Dermal | Acute systemic effects | 89 mg/kg bw/day |

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name | Environmental Compartment | Value |
|-----------------|---------------------------|------------------------------|
| ethanol | Fresh water | 0,96 mg/l |
| | Marine water | 0,79 mg/l |
| | Fresh water sediment | 3,6 mg/kg dry weight (d.w.) |
| | Marine sediment | 2,9 mg/kg dry weight (d.w.) |
| | Soil | 0,63 mg/kg dry weight (d.w.) |
| | Sewage treatment plant | 580 mg/l |
| 2-butoxyethanol | Fresh water | 8,8 mg/l |

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| | Marine water | 0,88 mg/l |
| | Sewage treatment plant | 463 mg/l |
| | Fresh water sediment | 34,6 mg/kg dry weight (d.w.) |
| | Marine sediment | 3,46 mg/kg dry weight (d.w.) |
| | Soil | 2,33 mg/kg dry weight (d.w.) |

8.2 Exposure controls

Engineering measures

Handle only in a place equipped with local exhaust (or other appropriate exhaust).

Personal protective equipment

| | |
|--------------------------|--|
| Eye protection | : Ensure that eyewash stations and safety showers are close to the workstation location. Tightly fitting safety goggles. |
| Hand protection | : Wear protective gloves, for example: polyvinyl alcohol or nitrile-butyl-rubber gloves, or similar; Glove thickness: > 0.4 mm and Break Through time: > 480 minutes. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Before removing gloves clean them with soap and water. |
| Skin and body protection | : Impervious clothing |
| Respiratory protection | : No personal respiratory protective equipment normally required. |
| Protective measures | : Wear suitable protective equipment. |

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--|---------------------|
| Physical state | : paste |
| Colour | : yellow |
| Odour | : characteristic |
| Odour Threshold | : No data available |
| Melting point/range | : No data available |
| Upper explosion limit / Upper flammability limit | : 23 %(V) |
| Lower explosion limit / Lower flammability limit | : 1,1 %(V) |

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| | | |
|--|---|-------------------|
| Flash point | : | 14 °C |
| Auto-ignition temperature | : | not determined |
| Decomposition temperature | : | No data available |
| pH | : | No data available |
| Viscosity | : | |
| Viscosity, kinematic | : | No data available |
| Solubility(ies) | : | |
| Water solubility | : | soluble |
| Solubility in other solvents | : | No data available |
| Partition coefficient: n-octanol/water | : | No data available |
| Vapour pressure | : | No data available |
| Relative density | : | No data available |
| Density | : | No data available |
| Bulk density | : | No data available |
| Relative vapour density | : | No data available |

9.2 Other information

| | | |
|----------------------|---|-------------------|
| Explosives | : | No data available |
| Oxidizing properties | : | Not applicable |
| Flammable solids | : | |
| Burning rate | : | No data available |
| Self-ignition | : | No data available |
| Evaporation rate | : | No data available |
| Refractive index | : | No data available |

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

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10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.
Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : No data available
Not applicable

10.6 Hazardous decomposition products

Stable under normal conditions.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2.000 mg/kg
Method: Calculation method

Components:

ethanol:

Acute oral toxicity : LD50 Oral (Rat, male and female): 10.470 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 51 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg

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Method: OECD Test Guideline 402

ethyl acetate:

Acute oral toxicity : LD50 Oral (Rat): 6.100 mg/kg
Assessment: The substance or mixture has no acute oral toxicity

ammonium metavanadate:

Acute oral toxicity : LD50 (Rat, male and female): 275,87 mg/kg
Method: OECD Test Guideline 401
GLP: yes
Remarks: Toxic if swallowed.

Acute toxicity estimate: 275,87 mg/kg
Method: Calculation method

2-butoxyethanol:

Acute oral toxicity : Acute toxicity estimate: 1.200 mg/kg
Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008

Acute toxicity estimate: 1.200 mg/kg
Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008

LD50 Oral (Rat, male and female): 1.746 mg/kg
Method: OECD Test Guideline 401
GLP: no

Acute dermal toxicity : LD50 Dermal (Rabbit, male and female): > 2.000 mg/kg
Method: OECD Test Guideline 402
GLP: yes

methanol:

Acute dermal toxicity : Acute toxicity estimate: 300 mg/kg
Method: Converted acute toxicity point estimate

4-methylpentan-2-one:

Acute inhalation toxicity : Acute toxicity estimate: 11 mg/l
Test atmosphere: vapour
Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008

ammonium metavanadate:

Acute oral toxicity : LD50 (Rat, male and female): 275,87 mg/kg
Method: OECD Test Guideline 401
GLP: yes
Remarks: Toxic if swallowed.

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Acute toxicity estimate: 275,87 mg/kg
Method: Calculation method

2-butoxyethanol:

Acute oral toxicity : Acute toxicity estimate: 1.200 mg/kg
Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008

Acute toxicity estimate: 1.200 mg/kg
Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008

LD50 Oral (Rat, male and female): 1.746 mg/kg
Method: OECD Test Guideline 401
GLP: no

Acute dermal toxicity : LD50 Dermal (Rabbit, male and female): > 2.000 mg/kg
Method: OECD Test Guideline 402
GLP: yes

ethyl acetate:

Acute oral toxicity : LD50 Oral (Rat): 6.100 mg/kg
Assessment: The substance or mixture has no acute oral toxicity

ethanol:

Acute oral toxicity : LD50 Oral (Rat, male and female): 10.470 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 51 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg
Method: OECD Test Guideline 402

Skin corrosion/irritation

Not classified based on available information.

Components:

ethanol:

Species : Rabbit
Exposure time : 24 h
Method : OECD Test Guideline 404
Result : No skin irritation

Molybdenum(VI) oxide:

Species : Rabbit

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Exposure time : 4 h
Assessment : No skin irritation
Method : OECD Test Guideline 404
Result : No skin irritation
GLP : yes

2-butoxyethanol:

Species : Rabbit
Exposure time : 72 h
Method : OECD Test Guideline 404
Result : Irritating to skin.
GLP : yes

Molybdenum(VI) oxide:

Species : Rabbit
Exposure time : 4 h
Assessment : No skin irritation
Method : OECD Test Guideline 404
Result : No skin irritation
GLP : yes

2-butoxyethanol:

Species : Rabbit
Exposure time : 72 h
Method : OECD Test Guideline 404
Result : Irritating to skin.
GLP : yes

ethanol:

Species : Rabbit
Exposure time : 24 h
Method : OECD Test Guideline 404
Result : No skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

ethanol:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Eye irritation

Molybdenum(VI) oxide:

Species : Rabbit
Assessment : Irritating to eyes.
Result : Irritating to eyes.

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ethyl acetate:

Species : Rabbit
Result : No eye irritation

ammonium metavanadate:

Species : Rabbit
Exposure time : 1 h
Method : OECD Test Guideline 405
Result : Irritating to eyes.
GLP : yes

2-butoxyethanol:

Result : Eye irritation

Molybdenum(VI) oxide:

Species : Rabbit
Assessment : Irritating to eyes.
Result : Irritating to eyes.

ammonium metavanadate:

Species : Rabbit
Exposure time : 1 h
Method : OECD Test Guideline 405
Result : Irritating to eyes.
GLP : yes

2-butoxyethanol:

Result : Eye irritation

ethyl acetate:

Species : Rabbit
Result : No eye irritation

ethanol:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Eye irritation

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

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Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Suspected of causing cancer.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

May cause respiratory irritation.

Components:

ammonium metavanadate:

Assessment : May cause respiratory irritation.

ammonium metavanadate:

Assessment : May cause respiratory irritation.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Further information

Product:

Remarks : Solvents may degrease the skin.

SECTION 12: Ecological information

12.1 Toxicity

Components:

ethanol:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 13.000 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

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Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 12.340 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201

EC10 (Chlorella vulgaris (Fresh water algae)): 11,5 mg/l
Exposure time: 72 h
Test Type: static test

Molybdenum(VI) oxide:

Toxicity to fish : (Pimephales promelas (fathead minnow)): 370 mg/l
Exposure time: 96 h
Remarks: No toxicity at the limit of solubility

ethyl acetate:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 220 mg/l
Exposure time: 96 h
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 560 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (algae): 3.300 mg/l
Exposure time: 48 h

ammonium metavanadate:

Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

2-butoxyethanol:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 1.490 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203
GLP: no

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.800 mg/l
Exposure time: 48 h

methanol:

Toxicity to fish : LC50 (Fish): 28.200 mg/l
Exposure time: 96 h

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Molybdenum(VI) oxide:

Toxicity to fish : (Pimephales promelas (fathead minnow)): 370 mg/l
Exposure time: 96 h
Remarks: No toxicity at the limit of solubility

ammonium metavanadate:

Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.
Chronic aquatic toxicity : This product has no known ecotoxicological effects.

2-butoxyethanol:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 1.490 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203
GLP: no

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.800 mg/l
Exposure time: 48 h

ethyl acetate:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 220 mg/l
Exposure time: 96 h
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 560 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (algae): 3.300 mg/l
Exposure time: 48 h

propane-1,2-diol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 51.400 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): > 10.000 mg/l
Exposure time: 96 h

Toxicity to algae/aquatic plants : EC50 (algae): 19.000 mg/l
Exposure time: 96 h

ethanol:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 13.000 mg/l

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| | |
|---|---|
| | Exposure time: 96 h Method: OECD Test Guideline 203 |
| Toxicity to daphnia and other aquatic invertebrates | : LC50 (Daphnia magna (Water flea)): 12.340 mg/l Exposure time: 48 h |
| Toxicity to algae/aquatic plants | : EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l End point: Growth rate Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 |
| | EC10 (Chlorella vulgaris (Fresh water algae)): 11,5 mg/l Exposure time: 72 h Test Type: static test |

propane-1,2-diol:

| | |
|---|--|
| Toxicity to fish | : LC50 (Pimephales promelas (fathead minnow)): 51.400 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 GLP: yes |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia (water flea)): > 10.000 mg/l Exposure time: 96 h |
| Toxicity to algae/aquatic plants | : EC50 (algae): 19.000 mg/l Exposure time: 96 h |

12.2 Persistence and degradability

Components:

ethanol:

| | |
|------------------|---|
| Biodegradability | : Test Type: aerobic Result: Readily biodegradable. Biodegradation: 97 % Exposure time: 28 d Method: OECD Test Guideline 301B |
|------------------|---|

ethanol:

| | |
|------------------|---|
| Biodegradability | : Test Type: aerobic Result: Readily biodegradable. Biodegradation: 97 % Exposure time: 28 d Method: OECD Test Guideline 301B |
|------------------|---|

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12.3 Bioaccumulative potential

Components:

ethanol:

Bioaccumulation : Bioconcentration factor (BCF): 0,66
Remarks: Does not bioaccumulate.

Partition coefficient: n-octanol/water : log Pow: -0,35 (24 °C)
pH: 7,4
Method: OECD Test Guideline 107

ethyl acetate:

Partition coefficient: n-octanol/water : log Pow: 0,73 (20 °C)

2-butoxyethanol:

Partition coefficient: n-octanol/water : log Pow: 0,77 (20 °C)
pH: 7

methanol:

Partition coefficient: n-octanol/water : log Pow: -0,77

4-methylpentan-2-one:

Partition coefficient: n-octanol/water : Pow: 1,19

2-butoxyethanol:

Partition coefficient: n-octanol/water : log Pow: 0,77 (20 °C)
pH: 7

ethyl acetate:

Partition coefficient: n-octanol/water : log Pow: 0,73 (20 °C)

solvent naphtha (petroleum), light, aromatic:

Partition coefficient: n-octanol/water : log Pow: 3,42 - 3,9

ethanol:

Bioaccumulation : Bioconcentration factor (BCF): 0,66
Remarks: Does not bioaccumulate.

Partition coefficient: n-octanol/water : log Pow: -0,35 (24 °C)
pH: 7,4
Method: OECD Test Guideline 107

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12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Additional ecological information : None known.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Send to a licensed waste management company.
Dispose of wastes in an approved waste disposal facility.
Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: Transport information

14.1 UN number

ADN : UN 1263

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| | | |
|-------------|---|---------|
| ADR | : | UN 1263 |
| RID | : | UN 1263 |
| IMDG | : | UN 1263 |
| IATA | : | UN 1263 |

14.2 UN proper shipping name

| | | |
|-------------|---|------------------------|
| ADN | : | PAINT RELATED MATERIAL |
| ADR | : | PAINT RELATED MATERIAL |
| RID | : | PAINT RELATED MATERIAL |
| IMDG | : | PAINT RELATED MATERIAL |
| IATA | : | Paint related material |

14.3 Transport hazard class(es)

| | | |
|-------------|---|---|
| ADN | : | 3 |
| ADR | : | 3 |
| RID | : | 3 |
| IMDG | : | 3 |
| IATA | : | 3 |

14.4 Packing group

| | | |
|------------------------------|---|------------------------|
| ADN | | |
| Packing group | : | II |
| Classification Code | : | F1 |
| Hazard Identification Number | : | 33 |
| Labels | : | 3 |
| Remarks | : | Special Provision 640C |

| | | |
|------------------------------|---|------------------------|
| ADR | | |
| Packing group | : | II |
| Classification Code | : | F1 |
| Hazard Identification Number | : | 33 |
| Labels | : | 3 |
| Tunnel restriction code | : | (D/E) |
| Remarks | : | Special Provision 640C |

| | | |
|------------------------------|---|------------------------|
| RID | | |
| Packing group | : | II |
| Classification Code | : | F1 |
| Hazard Identification Number | : | 33 |
| Labels | : | 3 |
| Remarks | : | Special Provision 640C |

| | | |
|---------------|---|----|
| IMDG | | |
| Packing group | : | II |
| Labels | : | 3 |

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EmS Code : F-E, S-E

IATA (Cargo)

Packing instruction (cargo aircraft) : 364
Packing instruction (LQ) : Y341
Packing group : II
Labels : 3

IATA (Passenger)

Packing instruction (passenger aircraft) : 353
Packing instruction (LQ) : Y341
Packing group : II
Labels : 3

14.5 Environmental hazards

ADN

Environmentally hazardous : no

ADR

Environmentally hazardous : no

RID

Environmentally hazardous : no

IMDG

Marine pollutant : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Relevant EU provisions transposed through retained EU law

| | |
|--|---|
| REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) | : Conditions of restriction for the following entries should be considered: Number on list 3 methanol (Number on list 69) |
| International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors | : Neither banned nor restricted |
| REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). | : This product does not contain substances of very high concern |

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| | |
|---|---|
| | (Regulation (EC) No 1907/2006 (REACH), Article 57). |
| Regulation (EC) No 1005/2009 on substances that deplete the ozone layer | : Neither banned nor restricted |
| Regulation (EU) 2019/1021 on persistent organic pollutants (recast) | : Neither banned nor restricted |
| UK REACH List of substances subject to authorisation (Annex XIV) | : Neither banned nor restricted |

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

P5c FLAMMABLE LIQUIDS

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
Volatile organic compounds (VOC) content: 42,98 %

Other regulations:

The components of this product are reported in the following inventories:

| | |
|-------------------------|---|
| TCSI (Taiwan) | : On the inventory, or in compliance with the inventory |
| EINECS (European Union) | : On the inventory, or in compliance with the inventory |
| TSCA (United States) | : All substances listed as active on the TSCA inventory |
| AIIC (Australia) | : All components are listed on the inventory, regulatory obligations/restrictions apply |
| DSL/NDSL (Canada) | : This product contains the following components listed on the Canadian NDSL. All other components are on the Canadian DSL. polyaminoamide |
| ENCS (Japan) | : On the inventory, or in compliance with the inventory |
| ISHL (Japan) | : Not in compliance with the inventory |
| KECI (Korea) | : On the inventory, or in compliance with the inventory |
| NZiC (New Zealand) | : On the inventory, or in compliance with the inventory |
| PICCS (Philippines) | : Not in compliance with the inventory |
| IECSC (China) | : On the inventory, or in compliance with the inventory |
| SWISS (Switzerland) | : On the inventory, or in compliance with the inventory |

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CICR (Turkey) : Not in compliance with the inventory
TECI (Thailand) : Not in compliance with the inventory

15.2 Chemical safety assessment

Not applicable

SECTION 16: Other information

Full text of H-Statements

H225 : Highly flammable liquid and vapour.
H226 : Flammable liquid and vapour.
H301 : Toxic if swallowed.
H302 : Harmful if swallowed.
H304 : May be fatal if swallowed and enters airways.
H311 : Toxic in contact with skin.
H315 : Causes skin irritation.
H317 : May cause an allergic skin reaction.
H319 : Causes serious eye irritation.
H331 : Toxic if inhaled.
H332 : Harmful if inhaled.
H335 : May cause respiratory irritation.
H336 : May cause drowsiness or dizziness.
H351 : Suspected of causing cancer.
H370 : Causes damage to organs.
EUH066 : Repeated exposure may cause skin dryness or cracking.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Asp. Tox. : Aspiration hazard
Carc. : Carcinogenicity
Eye Irrit. : Eye irritation
Flam. Liq. : Flammable liquids
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation
STOT SE : Specific target organ toxicity - single exposure
2000/39/EC : Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
2006/15/EC : Europe. Indicative occupational exposure limit values
2017/164/EU : Europe. Commission Directive 2017/164/EU establishing a fourth list of indicative occupational exposure limit values
GB EH40 : UK. EH40 WEL - Workplace Exposure Limits
GB EH40 BAT : UK. Biological monitoring guidance values
2000/39/EC / TWA : Limit Value - eight hours
2000/39/EC / STEL : Short term exposure limit
2006/15/EC / TWA : Limit Value - eight hours
2017/164/EU / STEL : Short term exposure limit
2017/164/EU / TWA : Limit Value - eight hours
GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

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ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:

| | |
|--------------|------|
| Flam. Liq. 2 | H225 |
| Eye Irrit. 2 | H319 |
| Carc. 2 | H351 |
| STOT SE 3 | H335 |

Classification procedure:

| |
|-------------------------------------|
| Based on product data or assessment |
| Calculation method |
| Calculation method |
| Calculation method |

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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GB / EN