

According to OSHA Hazard Communication Standard 29CFR 1910.1200
(HCS 2012)

| LA LMM-6000SPRAY | | GSLA_LMM-6000 Black Aerosol Spray Can | |
|-----------------------|--------------|---------------------------------------|--------------|
| Product specification | RS_FP_603544 | Revision Date | 06/29/2020 |
| Version | 2.1 | Print Date | 06/10/2021 |
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SECTION 1. IDENTIFICATION

Product name : **LA LMM-6000SPRAY**
GSLA_LMM-6000 Black Aerosol Spray Can

Material number : **1130062**

Manufacturer or supplier's details

Company name of supplier : Ferro Corporation
Address : 6060 Parkland Blvd. Suite 250
Mayfield Heights OH 44124-4185
Telephone : (216) 875-5600

Emergency telephone number

In-Country Number : (800)424-9300
CHEMTREC Global Number : +(1)-703-527-3887 (Call Collect)

Recommended use of the chemical and restrictions on use

Recommended use : Consult the technical guidelines for the use of this
substance/mixture.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable aerosols : Category 1
Eye irritation : Category 2A
Carcinogenicity : Category 1A
Specific target organ toxicity : Category 1
- single exposure
Specific target organ toxicity : Category 3 (Respiratory system)
- single exposure

GHS Label element

Hazard pictograms : 

Signal word : **Danger**

Hazard statements : H222 Extremely flammable aerosol.
H280 Contains gas under pressure; may
explode if heated.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H350 May cause cancer.

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| | | | |
|--------------------------|---|--------------------|--|
| Precautionary statements | : | Prevention: | |
| | | P201 | Obtain special instructions before use. |
| | | P202 | Do not handle until all safety precautions have been read and understood. |
| | | 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. |
| | | P261 | Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. |
| | | P264 | Wash skin thoroughly after handling. |
| | | P271 | Use only outdoors or in a well-ventilated area. |
| | | P280 | Wear protective gloves/ protective clothing/ eye protection/ face protection. |
| | | Response: | |
| | | P304 + P340 + P312 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell. |
| | | P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| | | P308 + P313 | IF exposed or concerned: Get medical advice/ attention. |
| | | P337 + P313 | If eye irritation persists: Get medical advice/ attention. |
| | | Storage: | |
| | | P403 + P233 | Store in a well-ventilated place. Keep container tightly closed. |
| | | P410 + P412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. |
| | | Disposal: | |
| | | P501 | Dispose of contents/ container to an approved waste disposal plant. |

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Substance / Mixture : Mixture
Chemical nature : inorganic metal-nonmetal compound, organic solvent,
extremely flammable liquefied gas, silicatic material,
hydrocarbon, aliphatic, inorganic salt

Hazardous components

| Chemical Name | CAS-No. | Concentration (%) |
|-----------------------|------------|-------------------|
| ethanol | 64-17-5 | >= 30 - < 50 |
| Molybdenum(VI) oxide | 1313-27-5 | >= 20 - < 30 |
| butane | 106-97-8 | >= 10 - < 20 |
| isobutane | 75-28-5 | >= 5 - < 10 |
| mica | 12001-26-2 | >= 5 - < 10 |
| propane | 74-98-6 | >= 5 - < 10 |
| ammonium metavanadate | 7803-55-6 | >= 1 - < 5 |
| ethyl acetate | 141-78-6 | >= 1 - < 5 |
| methanol | 67-56-1 | >= 1 - < 5 |
| 2-butoxyethanol | 111-76-2 | >= 1 - < 5 |
| quartz | 14808-60-7 | >= 0.1 - < 1 |
| 4-methylpentan-2-one | 108-10-1 | >= 0.1 - < 1 |

SECTION 4. FIRST AID MEASURES

General advice : Consult a physician.
If inhaled : Remove to fresh air.
If unconscious place in recovery position and seek medical advice.
Never give anything by mouth to an unconscious person.
In case of skin contact : Wash off immediately with soap and plenty of water.
If a person feels unwell or symptoms of skin irritation appear, consult a physician.
In case of eye contact : Rinse immediately with plenty of water and seek medical advice.
If swallowed : Do NOT induce vomiting.
Rinse immediately with plenty of water and seek medical advice.
Most important symptoms and effects, both acute and delayed : Causes serious eye irritation.
May cause respiratory irritation.
May cause cancer.
Causes damage to organs.

SECTION 5. FIREFIGHTING MEASURES

Specific hazards during firefighting : Exposure to decomposition products may be a hazard to health.
Do not allow run-off from fire fighting to enter drains or water courses.
Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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Special protective equipment for firefighters : In the event of fire and/or explosion do not breathe fumes.
: In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation.
Follow safe handling advice and personal protective equipment recommendations.

Environmental precautions : Do not flush into surface water or sanitary sewer system.
Prevent product from entering drains.

Methods and materials for containment and cleaning up : Sweep up and shovel into suitable containers for disposal.
Clean contaminated floors and objects thoroughly while observing environmental regulations.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Keep away from heat and sources of ignition.

Advice on safe handling : Do not get in eyes or mouth or on skin.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Do not use in areas without adequate ventilation.
Keep away from heat and sources of ignition.

Conditions for safe storage : Keep in a dry, cool and well-ventilated place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|----------------------|-----------|-------------------------------|--|-----------|
| ethanol | 64-17-5 | TWA | 1,000 ppm | ACGIH |
| | | TWA | 1,000 ppm 1,900 mg/m3 | NIOSH REL |
| | | TWA | 1,000 ppm 1,900 mg/m3 | OSHA Z-1 |
| | | TWA | 1,000 ppm 1,900 mg/m3 | OSHA P0 |
| | | STEL | 1,000 ppm | ACGIH |
| Molybdenum(VI) oxide | 1313-27-5 | TWA | 5 mg/m3 (Molybdenum) | OSHA Z-1 |
| | | TWA (Respirable) | 0.5 mg/m3 (Molybdenum) | ACGIH |

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| | | | | |
|-----------------------|------------|--------------------------------------|---|-----------|
| | | fraction) | | |
| | | TWA | 5 mg/m3 (Molybdenum) | OSHA P0 |
| butane | 106-97-8 | TWA | 800 ppm 1,900 mg/m3 | NIOSH REL |
| | | TWA | 800 ppm 1,900 mg/m3 | OSHA P0 |
| | | STEL | 1,000 ppm | ACGIH |
| isobutane | 75-28-5 | TWA | 800 ppm 1,900 mg/m3 | NIOSH REL |
| | | STEL | 1,000 ppm | ACGIH |
| mica | 12001-26-2 | TWA (Respirable fraction) | 3 mg/m3 | ACGIH |
| | | TWA (Dust) | 20 Million particles per cubic foot | OSHA Z-3 |
| | | TWA (Respirable) | 3 mg/m3 | NIOSH REL |
| | | TWA (respirable dust fraction) | 3 mg/m3 | OSHA P0 |
| propane | 74-98-6 | TWA | 1,000 ppm 1,800 mg/m3 | NIOSH REL |
| | | TWA | 1,000 ppm 1,800 mg/m3 | OSHA Z-1 |
| | | TWA | 1,000 ppm 1,800 mg/m3 | OSHA P0 |
| ammonium metavanadate | 7803-55-6 | C (Dust) | 0.05 mg/m3 (Vanadium) | NIOSH REL |
| | | C (Fumes) | 0.05 mg/m3 (Vanadium) | NIOSH REL |
| ethyl acetate | 141-78-6 | TWA | 400 ppm | ACGIH |
| | | TWA | 400 ppm 1,400 mg/m3 | NIOSH REL |
| | | TWA | 400 ppm 1,400 mg/m3 | OSHA Z-1 |
| | | TWA | 400 ppm 1,400 mg/m3 | OSHA P0 |
| methanol | 67-56-1 | TWA | 200 ppm | ACGIH |
| | | STEL | 250 ppm | ACGIH |
| | | TWA | 200 ppm 260 mg/m3 | NIOSH REL |
| | | ST | 250 ppm 325 mg/m3 | NIOSH REL |
| | | TWA | 200 ppm 260 mg/m3 | OSHA Z-1 |
| | | TWA | 200 ppm 260 mg/m3 | OSHA P0 |
| | | STEL | 250 ppm | OSHA P0 |

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|----------------------|------------|------------------------------|-------------------------|-----------|
| | | | 325 mg/m3 | |
| 2-butoxyethanol | 111-76-2 | TWA | 20 ppm | ACGIH |
| | | TWA | 5 ppm 24 mg/m3 | NIOSH REL |
| | | TWA | 50 ppm 240 mg/m3 | OSHA Z-1 |
| | | TWA | 25 ppm 120 mg/m3 | OSHA P0 |
| quartz | 14808-60-7 | TWA (Respirable fraction) | 0.025 mg/m3 (Silica) | ACGIH |
| | | TWA (Respirable dust) | 0.05 mg/m3 (Silica) | NIOSH REL |
| | | TWA (Respirable dust) | 0.05 mg/m3 (Silica) | OSHA CARC |
| 4-methylpentan-2-one | 108-10-1 | TWA | 20 ppm | ACGIH |
| | | STEL | 75 ppm | ACGIH |
| | | TWA | 50 ppm 205 mg/m3 | NIOSH REL |
| | | ST | 75 ppm 300 mg/m3 | NIOSH REL |
| | | TWA | 100 ppm 410 mg/m3 | OSHA Z-1 |
| | | TWA | 50 ppm 205 mg/m3 | OSHA P0 |
| | | STEL | 75 ppm 300 mg/m3 | OSHA P0 |

Biological occupational exposure limits

| Components | CAS-No. | Control parameters | Biological specimen | Sampling time | Permissible concentration | Basis |
|----------------------|----------|-------------------------|---------------------|--|---------------------------|--------------|
| methanol | 67-56-1 | Methanol | Urine | End of shift (As soon as possible after exposure ceases) | 15 mg/l | ACGIH BEI |
| 2-butoxyethanol | 111-76-2 | Butoxyacetic acid (BAA) | Urine | End of shift (As soon as possible after exposure ceases) | 200 mg/g Creatinine | ACGIH BEI |
| 4-methylpentan-2-one | 108-10-1 | methyl isobutyl ketone | Urine | End of shift (As soon as possible after exposure ceases) | 1 mg/l | ACGIH BEI |

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| | | | | | | |
|--|--|--|--|--|--|--|
| | | | | possible after exposure ceases) | | |
|--|--|--|--|--|--|--|

Engineering measures : Apply technical measures to comply with the occupational exposure limits.
Provide adequate ventilation.

Personal protective equipment

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection
Material : Protective gloves

Eye protection : Safety glasses with side-shields
Ensure that eyewash stations and safety showers are close to the workstation location.

Protective measures : Wear suitable protective equipment.
Avoid contact with skin.

Hygiene measures : Remove contaminated clothing and protective equipment before entering eating areas.
Wash hands before breaks and immediately after handling the product.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : aerosol
Colour : black
Odour : characteristic
Odour Threshold : No data available

pH : No data available
Melting point/range : No data available
Boiling point/boiling range : No data available
Flash point : 14 °C

Evaporation rate : No data available

Burning rate : No data available
Upper explosion limit : 19 %(V)

Lower explosion limit : 1.1 %(V)

Vapour pressure : No data available
Relative vapour density : No data available

Relative density : No data available

Bulk density : No data available

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Solubility(ies)
Water solubility : soluble

Solubility in other solvents : No data available

Partition coefficient: n-
octanol/water : No data available

Auto-ignition temperature : Not determined

Decomposition temperature : No data available

Viscosity
Viscosity, kinematic : No data available

Explosive properties : No data available

Oxidizing properties : No data available

Refractive index : No data available

Volatile organic compounds
(VOC) content : 72 %

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489):

This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No data available

Chemical stability : No data available

Possibility of hazardous
reactions : No data available

Conditions to avoid : Extremes of temperature and direct sunlight.

Hazardous decomposition
products : Stable under normal conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

inhalation (dust/mist/fume)

inhalation (vapour)

Skin

Eye contact

Ingestion

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : Acute toxicity estimate: 3,128 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 10 mg/l

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Exposure time: 4 h
Test atmosphere: dust/mist
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Components:

ethanol:

Acute oral toxicity : LD50 Oral (Rat): 10,470 mg/kg

Acute dermal toxicity : LD50 (Rabbit): 15,800 mg/kg

Molybdenum(VI) oxide:

Acute oral toxicity : LD50 (Rat, male and female): 4,461 mg/kg
Method: OECD Test Guideline 401
GLP: yes

Acute inhalation toxicity : LC50 (Rat, male and female): > 5,840 mg/m3
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Target Organs: Mucous membranes
GLP: yes
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: No adverse effect has been observed in acute toxicity tests.

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Assessment: The substance or mixture has no acute dermal toxicity

butane:

Acute inhalation toxicity : LC50 (Rat, male and female): 658 g/m3
Exposure time: 4 h
Test atmosphere: gas

propane:

Acute inhalation toxicity : LC50 (Rat): 658 mg/l
Exposure time: 4 h
Test atmosphere: gas

ammonium metavanadate:

Acute oral toxicity : LD50 (Rat, male and female): 275.87 mg/kg
Method: OECD Test Guideline 401
GLP: yes

ethyl acetate:

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Acute oral toxicity : LD50 Oral (Rat): 6,100 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 22.5 mg/l
Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 Dermal (Rabbit): > 18,000 mg/kg

methanol:

Acute oral toxicity : LD50 Oral (Rat): 6,200 mg/kg

2-butoxyethanol:

Acute oral toxicity : LD50 Oral (Rat, male and female): 1,200 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

quartz:

Acute oral toxicity : LD50 Oral (Rat): 500 mg/kg
Assessment: The substance or mixture has no acute oral toxicity

4-methylpentan-2-one:

Acute oral toxicity : LD50 Oral (Rat): 2,080 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): 3,000 mg/kg

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
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

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Result: Irritating to skin.
GLP: yes

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

ethanol:

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

Molybdenum(VI) oxide:

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

ammonium metavanadate:

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

ethyl acetate:

Species: Rabbit
Result: No eye irritation

2-butoxyethanol:

Result: Eye irritation

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

May cause cancer.

IARC

Group 1: Carcinogenic to humans

quartz

14808-60-7

Group 2B: Possibly carcinogenic to humans

4-methylpentan-2-one

108-10-1

OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

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NTP

Known to be human carcinogen

quartz

14808-60-7

Reproductive toxicity

Not classified based on available information.

STOT Specific Target Organ Toxicity - single exposure

May cause respiratory irritation.

Causes damage to organs.

Components:

Molybdenum(VI) oxide:

Assessment: May cause respiratory irritation.

ammonium metavanadate:

Assessment: May cause respiratory irritation.

STOT Specific Target Organ Toxicity - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Ecotoxicology Assessment

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

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

Components:

ethanol:

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia (water flea)): 9,268 mg/l
Exposure time: 48 h

Molybdenum(VI) oxide:

Toxicity to fish : (Oncorhynchus mykiss (rainbow trout)): 100 mg/l
Method: OECD Test Guideline 203
Remarks: No toxicity at the limit of solubility

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

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Toxicity to daphnia and other aquatic invertebrates : (Daphnia magna (Water flea)): 100 mg/l
Exposure time: 24 h
Method: OECD Test Guideline 202
Remarks: No toxicity at the limit of solubility

(Daphnia magna (Water flea)): 100 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
Remarks: No toxicity at the limit of solubility

ammonium metavanadate:

Toxicity to fish : LC50 (Marine species): 27.8 mg/l
Exposure time: 96 h
Test Type: flow-through test

Ecotoxicology Assessment

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

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

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 : EC50 (algae): 3,300 mg/l
Exposure time: 48 h

methanol:

Toxicity to fish : LC50 (Fish): 28,200 mg/l
Exposure time: 96 h

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

4-methylpentan-2-one:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 496 - 514 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 170 mg/l
Exposure time: 48 h

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Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (algae)): 400 mg/l
Exposure time: 96 h

Persistence and degradability

Product:

Biodegradability : Remarks: No data available

Components:

ethanol:

Biodegradability : Remarks: No data available

Molybdenum(VI) oxide:

Biodegradability : Remarks: No data available

butane:

Biodegradability : Remarks: No data available

mica:

Biodegradability : Remarks: No data available

propane:

Biodegradability : Remarks: No data available

ammonium metavanadate:

Biodegradability : Remarks: No data available

ethyl acetate:

Biodegradability : Remarks: No data available

methanol:

Biodegradability : Remarks: No data available

2-butoxyethanol:

Biodegradability : Remarks: No data available

quartz:

Biodegradability : Remarks: No data available

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

Components:

ethanol:

Bioaccumulation : Remarks: No data available

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| Product specification | RS_FP_603544 | Revision Date | 06/29/2020 |
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Partition coefficient: n-octanol/water : log Pow: -0.349 (24 °C)

Molybdenum(VI) oxide:

Bioaccumulation : Remarks: No data available

butane:

Bioaccumulation : Remarks: No data available

Partition coefficient: n-octanol/water : log Pow: 2.745

mica:

Bioaccumulation : Remarks: No data available

propane:

Bioaccumulation : Remarks: No data available

Partition coefficient: n-octanol/water : Remarks: No data available

ammonium metavanadate:

Bioaccumulation : Remarks: No data available

ethyl acetate:

Bioaccumulation : Remarks: No data available

Partition coefficient: n-octanol/water : log Pow: 0.73 (20 °C)

methanol:

Bioaccumulation : Remarks: No data available

Partition coefficient: n-octanol/water : log Pow: -0.77

2-butoxyethanol:

Bioaccumulation : Remarks: No data available

Partition coefficient: n-octanol/water : log Pow: 0.77 (20 °C)
 pH: 7

quartz:

Bioaccumulation : Remarks: No data available

4-methylpentan-2-one:

Partition coefficient: n-octanol/water : Pow: 1.19

Mobility in soil

Product:

Distribution among environmental compartments : Remarks: No data available

Components:

ethanol:

Distribution among : Remarks: No data available

SAFETY DATA SHEET

According to OSHA Hazard Communication Standard 29CFR 1910.1200
(HCS 2012)

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environmental compartments

Molybdenum(VI) oxide:

Distribution among : Remarks: No data available

environmental compartments

butane:

Distribution among : Remarks: No data available

environmental compartments

mica:

Distribution among : Remarks: No data available

environmental compartments

propane:

Distribution among : Remarks: No data available

environmental compartments

ammonium metavanadate:

Distribution among : Remarks: No data available

environmental compartments

ethyl acetate:

Distribution among : Remarks: No data available

environmental compartments

methanol:

Distribution among : Remarks: No data available

environmental compartments

2-butoxyethanol:

Distribution among : Remarks: No data available

environmental compartments

quartz:

Distribution among : Remarks: No data available

environmental compartments

Other adverse effects

Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82
Protection of Stratospheric Ozone - CAA Section 602 Class I
Substances
Remarks: This product neither contains, nor was
manufactured with a Class I or Class II ODS as defined by the
U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A +
B).

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of wastes in an approved waste disposal facility.

SECTION 14. TRANSPORT INFORMATION

IATA-DGR

UN number : UN 1950

SAFETY DATA SHEET



According to OSHA Hazard Communication Standard 29CFR 1910.1200 (HCS 2012)

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Proper shipping name : Aerosols, flammable
Class : 2.1
Packing group : Not assigned by regulation
Labels : 2.1
Packing instruction (cargo aircraft) : 203
Packing instruction (passenger aircraft) : 203
Packing instruction (LQ) : Y203

IMDG-Code

UN number : UN 1950
Proper shipping name : AEROSOLS
Class : 2.1
Packing group : Not assigned by regulation
Labels : 2.1
EmS Code : F-D, S-U
Marine pollutant : no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

49 CFR

UN number : UN 1950
Proper shipping name : AEROSOLS
Class : 2.1
Packing group : Not assigned by regulation
Labels : 2.1
ERG Code : 126
Marine pollutant : no

SECTION 15. REGULATORY INFORMATION

TSCA list : TSCA_12b - Not relevant

TSCA list : TSCA 5a - Not relevant

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

| Components | CAS-No. | Component RQ (lbs) | Calculated product RQ (lbs) |
|-----------------------|-----------|--------------------|-----------------------------|
| ammonium metavanadate | 7803-55-6 | 1000 | * |

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

SAFETY DATA SHEET



According to OSHA Hazard Communication Standard 29CFR 1910.1200 (HCS 2012)

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This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Fire Hazard
Chronic Health Hazard
Acute Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : This product contains components that are reportable under the regulation.

Molybdenum trioxide

Vanadium compounds

Methanol

Certain Glycol Ethers

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product contains components that are reportable under the regulation.

This product contains components that are reportable under the regulation.

This product contains components that are reportable under the regulation.

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

Massachusetts Right To Know

This product contains components that are reportable under the regulation.

Pennsylvania Right To Know

This product contains components that are reportable under the regulation.

New Jersey Right To Know

This product contains components that are reportable under the regulation.

California Prop 65

WARNING! This product contains a chemical known to the State of California to cause cancer.

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

SAFETY DATA SHEET



According to OSHA Hazard Communication Standard 29CFR 1910.1200 (HCS 2012)

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

| | |
|-------------------------|---|
| EINECS (European Union) | : On the inventory, or in compliance with the inventory |
| SWISS (Switzerland) | : On the inventory, or in compliance with the inventory |
| TSCA (United States) | : On TSCA Inventory |
| DSL/NDL (Canada) | : All components of this product are on the Canadian DSL. |
| AICS (Australia) | : On the inventory, or in compliance with the inventory |
| NZIoC (New Zealand) | : Not in compliance with the inventory |
| ENCS (Japan) | : Not in compliance with the inventory |
| ISHL (Japan) | : Not in compliance with the inventory |
| KECI (Korea) | : On the inventory, or in compliance with the inventory |
| PICCS (Philippines) | : On the inventory, or in compliance with the inventory |
| IECSC (China) | : On the inventory, or in compliance with the inventory |
| TCSI (Taiwan) | : On the inventory, or in compliance with the inventory |
| CICR (Turkey) | : Not in compliance with the inventory |
| INSQ (Mexico) | : Not in compliance with the inventory |

SECTION 16. OTHER INFORMATION

Revision Date : 06/29/2020

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.

US / EN



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