

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

<b>LA LMM-6000SPRAY</b>		<b>GSLA_LMM-6000 Black Aerosol Spray Can</b>	
Product specification	<b>RS_FP_603544</b>	Revision Date	<b>10/01/2025</b>
Version	<b>3.1</b>	Print Date	<b>01/26/2026</b>
Material number	<b>1130062</b>	Page	Page 1 of 22

**SECTION 1. IDENTIFICATION**

Product name : **LA LMM-6000SPRAY**  
 GSLA\_LMM-6000 Black Aerosol Spray Can  
 Product code : **1130062**

**Manufacturer or supplier's details**

Company name of supplier : Vibrantz Performance Coatings  
 S.A. de C.V  
 Address : Carretera Celaya Salamanca Km. 12.5  
 Villagran GUA 38260  
 Telephone : +524111551125  
 Telefax : +524111604218  
 E-mail address of person responsible for the SDS : PS.Request.americas@vibrantz.com  
**Emergency telephone number**  
 In-Country Number : (800)424-9300  
 CHEMTREC Global Number : +(1)-703-527-3887 (Call Collect)

**SECTION 2. HAZARDS IDENTIFICATION**

**GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

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

**GHS label elements**

Hazard pictograms :



Signal word : Danger  
 Danger

Hazard statements : H222 Extremely flammable aerosol.

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- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H351 Suspected of causing cancer.
- H370 Causes damage to organs.
- H280 Contains gas under pressure; may explode if heated.
- H222 Extremely flammable aerosol.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H351 Suspected of causing cancer.
- H370 Causes damage to organs.

Precautionary statements	: <b>Prevention:</b>	
	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.
	P260	Do not breathe dust or mist.
	P264	Wash skin thoroughly after handling.
	P270	Do not eat, drink or smoke when using this product.
	P271	Use only outdoors or in a well-ventilated area.
	P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
	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.
	P260	Do not breathe dust or mist.
	P264	Wash skin thoroughly after handling.
	P270	Do not eat, drink or smoke when using this product.
	P271	Use only outdoors or in a well-ventilated area.
	P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.

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**Response:**

P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor 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.
P307 + P311	IF exposed: Call a POISON CENTER or doctor/ physician.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor 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.
P307 + P311	IF exposed: Call a POISON CENTER or doctor/ physician.
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.
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.
P501	Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**  
 None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture  
 Chemical nature : inorganic metal-nonmetal compound

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organic solvent  
 extremely flammable liquefied gas  
 silicatic material  
 hydrocarbon, aliphatic  
 inorganic salt

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
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

Actual concentration is withheld as a trade secret

**SECTION 4. 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.  
 Keep respiratory tract clear.
- 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.
- Most important symptoms and effects, both acute and delayed : Causes serious eye irritation.  
 May cause respiratory irritation.  
 Suspected of causing cancer.  
 Causes damage to organs.
- Notes to physician : Treat symptomatically.

**SECTION 5. FIREFIGHTING MEASURES**

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- 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
- Specific hazards during fire-fighting : Do not use a solid water stream as it may scatter and spread fire.
- Hazardous combustion products : No hazardous combustion products are known
- Further information : Use a water spray to cool fully closed containers.  
 For safety reasons in case of fire, cans should be stored separately in closed containments.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.  
 Use personal protective equipment.  
 Ensure adequate ventilation.  
 Remove all sources of ignition.  
 Evacuate personnel to safe areas.
- 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.
- Methods and materials for containment and cleaning up : Clean contaminated floors and objects thoroughly while observing environmental regulations.

**SECTION 7. HANDLING AND STORAGE**

- 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.
- Advice on safe handling : Avoid release to the environment.  
 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

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regulations.  
 Conditions for safe storage : BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects.  
 No smoking.  
 Keep container tightly closed in a dry and well-ventilated place.  
 Observe label precautions.  
 Further information on storage stability : No decomposition if stored and applied as directed.

**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	STEL	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
Molybdenum(VI) oxide	1313-27-5	TWA	1,000 ppm 1,900 mg/m3	OSHA P0
		TWA	5 mg/m3 (Molybdenum)	OSHA Z-1
		TWA (Respirable particulate matter)	0.5 mg/m3 (Molybdenum)	ACGIH
butane	106-97-8	TWA	5 mg/m3 (Molybdenum)	OSHA P0
		TWA	800 ppm 1,900 mg/m3	NIOSH REL
		TWA	800 ppm 1,900 mg/m3	OSHA P0
isobutane	75-28-5	STEL	1,000 ppm	ACGIH
		TWA	800 ppm 1,900 mg/m3	NIOSH REL
		STEL	1,000 ppm	ACGIH
mica	12001-26-2	TWA (Respirable particulate matter)	0.1 mg/m3	ACGIH
		TWA (Dust)	20 Million particles per cubic foot	OSHA Z-3
		TWA (Respirable)	3 mg/m3	NIOSH REL
		TWA (respirable dust)	3 mg/m3	OSHA P0

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		fraction)		
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
		ST	250 ppm 325 mg/m3	NIOSH REL
		TWA	200 ppm 260 mg/m3	NIOSH REL
		TWA	200 ppm 260 mg/m3	OSHA Z-1
		TWA	200 ppm 260 mg/m3	OSHA P0
		STEL	250 ppm 325 mg/m3	OSHA P0
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 dust)	0.05 mg/m3	OSHA Z-1
		TWA (respirable)	10 mg/m3 / %SiO2+2	OSHA Z-3
		TWA (respirable)	250 mppcf / %SiO2+5	OSHA Z-3
		TWA (respirable dust fraction)	0.1 mg/m3	OSHA P0
		TWA (Respirable particulate matter)	0.025 mg/m3 (Silica)	ACGIH
		PEL (respirable)	0.05 mg/m3	OSHA CARC

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		TWA (Respirable dust)	0.05 mg/m3 (Silica)	NIOSH REL
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

**Engineering measures** : Handle only in a place equipped with local exhaust (or other appropriate exhaust).

**Personal protective equipment**

**Respiratory protection** : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied

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- respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.  
 In the case of vapour formation use a respirator with an approved filter.  
 In the case of dust or aerosol formation use respirator with an approved filter.
- 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.
- Eye protection : Ensure that eyewash stations and safety showers are close to the workstation location.  
 Tightly fitting safety goggles.
- Skin and body protection : Impervious clothing
- Protective measures : Wear suitable protective equipment.
- Hygiene measures : Wash hands before breaks and at the end of workday.  
 Remove contaminated clothing and protective equipment before entering eating areas.  
 Handle in accordance with good industrial hygiene and safety practice.

**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 : 57 °F / 14 °C
- Evaporation rate : No data available
- Burning rate : No data available

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Self-ignition	:	No data available
Upper explosion limit / Upper flammability limit	:	23 %(V)
Lower explosion limit / Lower flammability 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
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 %

This product contains components that are reportable under the U.S. Clean Air Act Section 111 SOCM I 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.

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**SECTION 10. STABILITY AND REACTIVITY**

- Reactivity : No decomposition if stored and applied as directed.
- Chemical stability : Stable under normal conditions.
- Possibility of hazardous reactions : No decomposition if stored and applied as directed. Vapours may form explosive mixture with air.
- Conditions to avoid : Heat, flames and sparks.
- Incompatible materials : Not applicable
- Hazardous decomposition products : Stable under normal conditions.

**SECTION 11. TOXICOLOGICAL INFORMATION**

**Acute toxicity**

Not classified based on available information.

**Product:**

- Acute oral toxicity : Acute toxicity estimate: 3,144 mg/kg  
Method: Calculation method
- Acute inhalation toxicity : Acute toxicity estimate: 103.72 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method
- Acute dermal toxicity : Acute toxicity estimate: > 5,000 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  
Method: OECD Test Guideline 402

**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

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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:**

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

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**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  
 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

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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**

Suspected of causing cancer.

<b>IARC</b>	Group 2B: Possibly carcinogenic to humans Molybdenum(VI) oxide	1313-27-5
	Group 2B: Possibly carcinogenic to humans 4-methylpentan-2-one	108-10-1
<b>OSHA</b>	OSHA specifically regulated carcinogen quartz (crystalline silica)	14808-60-7
<b>NTP</b>	Known to be human carcinogen quartz (Silica, Crystalline (Respirable Size))	14808-60-7

**Reproductive toxicity**

Not classified based on available information.

**STOT - single exposure**

May cause respiratory irritation.  
 Causes damage to organs.

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

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**Components:**

**Molybdenum(VI) oxide:**

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.

**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Components:**

**ethanol:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 13,000 mg/l  
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

**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

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

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

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(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/aquatic plants : 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

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

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

**Persistence and degradability**

**Components:**

**ethanol:**

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

**Bioaccumulative potential**

**Components:**

**ethanol:**

Bioaccumulation : Bioconcentration factor (BCF): 0.66  
 Remarks: Does not bioaccumulate.

Partition coefficient: n-octanol/water : log Pow: -0.35 (75 °F / 24 °C)  
 pH: 7.4  
 Method: OECD Test Guideline 107

**butane:**

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

**ethyl acetate:**

Partition coefficient: n-octanol/water : log Pow: 0.73 (68 °F / 20 °C)

**methanol:**

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

**2-butoxyethanol:**

Partition coefficient: n-octanol/water : log Pow: 0.77 (68 °F / 20 °C)  
 pH: 7

**4-methylpentan-2-one:**

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

**Mobility in soil**

No data available

**Other adverse effects**

**Product:**

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

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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).

Additional ecological information : None known.

**SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods**

Waste from residues : 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**

**International Regulations**

**IATA-DGR**

UN/ID No. : UN 1950  
 Proper shipping name : Aerosols, flammable  
 Class : 2.1  
 Packing group : Not assigned by regulation  
 Labels : Flammable Gas  
 Packing instruction (cargo aircraft) : 203  
 Packing instruction (passenger aircraft) : 203

**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**

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

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**49 CFR**

UN/ID/NA number : UN 1950  
 Proper shipping name : Aerosols  
 Class : 2.1  
 Packing group : Not assigned by regulation  
 Labels : FLAMMABLE GAS  
 ERG Code : 126  
 Marine pollutant : no

**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.

**SECTION 15. REGULATORY INFORMATION**

**CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
ammonium metavanadate	7803-55-6	1000	44444
ethyl acetate	141-78-6	5000	273224
methanol	67-56-1	5000	303030
4-methylpentan-2-one	108-10-1	5000	1515151

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

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

**SARA 302 Extremely Hazardous Substances Threshold Planning Quantity**

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Flammable (gases, aerosols, liquids, or solids)  
 Carcinogenicity  
 Specific target organ toxicity (single or repeated exposure)  
 Serious eye damage or eye irritation

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

- Molybdenum trioxide
- Vanadium compounds
- Methanol
- Certain Glycol Ethers
- Methyl isobutyl ketone

**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 hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).  
 This product contains components that are reportable under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

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

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This product contains components that are reportable under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

**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

This product does not contain any priority pollutants related to the U.S. Clean Water Act

**US State Regulations**

**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.

**Maine Chemicals of High Concern**

This product contains components that are reportable under the regulation.

**Vermont Chemicals of High Concern**

This product contains components that are reportable under the regulation.

**Washington Chemicals of High Concern**

Product does not contain any listed chemicals

**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 and birth defects or other reproductive harm.

**California List of Hazardous Substances**

This product contains components that are reportable under the regulation.

**California Permissible Exposure Limits for Chemical Contaminants**

This product contains components that are reportable under the regulation.

**California Regulated Carcinogens**

This product contains components that are reportable under the regulation.

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

- TCSI (Taiwan) : 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) : All components of this product are on the Canadian DSL
- ENCS (Japan) : Not in compliance with the inventory

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

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- 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
- NZioC (New Zealand) : On the inventory, or in compliance with the inventory
- SWISS (Switzerland) : On the inventory, or in compliance with the inventory
- EINECS (European Union) : On the inventory, or in compliance with the inventory
- CICR (Turkey) : Not in compliance with the inventory
- TECI (Thailand) : On the inventory, or in compliance with the inventory

**TSCA list**

No substances are subject to a Significant New Use Rule.  
 No substances are subject to TSCA 12(b) export notification requirements.

**SECTION 16. OTHER INFORMATION**

**Full text of other abbreviations**

- ACGIH : USA. ACGIH Threshold Limit Values (TLV)
- ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)
- NIOSH REL : USA. NIOSH Recommended Exposure Limits
- OSHA CARC : OSHA Specifically Regulated Chemicals/Carcinogens
- OSHA P0 : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
- OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
- OSHA Z-3 : USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
- ACGIH / TWA : 8-hour, time-weighted average
- ACGIH / STEL : Short-term exposure limit
- NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
- NIOSH REL / ST : STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
- NIOSH REL / C : Ceiling value not be exceeded at any time.
- OSHA CARC / PEL : Permissible exposure limit (PEL)
- OSHA P0 / TWA : 8-hour time weighted average
- OSHA P0 / STEL : Short-term exposure limit
- OSHA Z-1 / TWA : 8-hour time weighted average
- OSHA Z-3 / TWA : 8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation and Liability Act

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

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tion, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECL - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date : 10/01/2025

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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