

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

LA LMC-6044P Spray		GSLA_LMC-6044P Black Aerosol Can	
Product specification	11800	Revision Date	08/17/2017
Version	2.5	Print Date	04/12/2018
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**SECTION 1. IDENTIFICATION**

Product name : **LA LMC-6044P Spray**  
GSLA\_LMC-6044P Black Aerosol Can

Material number : **1379493**

**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

**GHS Label element**

Hazard pictograms : 

Signal word : Danger

Hazard statements : H222 Extremely flammable aerosol.

Precautionary statements : **Prevention:**  
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.

**Storage:**

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P410 + P412

Protect from sunlight. Do not expose  
to temperatures exceeding 50 °C/  
122 °F.

## Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	: Mixture
Chemical nature	: organic solvent, glass/frit, inorganic pigment, extremely flammable liquefied gas, glycol ether/-acetate, hydrocarbon, aliphatic

### Hazardous components

Chemical Name	CAS-No.	Concentration (%)
ethanol	64-17-5	>= 20 - < 30
butane	106-97-8	>= 10 - < 20
isobutane	75-28-5	>= 5 - < 10
2-methoxy-1-methylethyl acetate	108-65-6	>= 5 - < 10
propane	74-98-6	>= 5 - < 10

## 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	: None known.

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**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.
- 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 : 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**

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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
butane	106-97-8	STEL	1,000 ppm	ACGIH
		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
2-methoxy-1-methylethyl acetate	108-65-6	TWA	50 ppm	US WEEL
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

**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.  
 When using do not eat, drink or smoke.

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

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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
Flammability (solid, gas)	: No data available
Burning rate	: No data available
Upper explosion limit	: 19 %(V)
Lower explosion limit	: 1.3 %(V)
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: No data available
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

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Viscosity	
Viscosity, dynamic	: No data available
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	: The following chemical(s) are listed 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.

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	: Stable under recommended storage conditions.
Chemical stability	: No decomposition if stored and applied as directed.
Conditions to avoid	: Extremes of temperature and direct sunlight.
Hazardous decomposition products	: Stable under normal conditions.

**SECTION 11. TOXICOLOGICAL INFORMATION**

**Acute toxicity**

Not classified based on available information.

**Product:**

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

***butane:***

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

***2-methoxy-1-methylethyl acetate:***

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Acute oral toxicity	:	LD50 Oral (Rat, female): 8,532 mg/kg LD50 (Rat, male): >= 10,000 mg/kg
Acute inhalation toxicity	:	(Rat, females): 16.48 mg/l Exposure time: 8 h Test atmosphere: vapour Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity	:	LD50 Dermal (Rat, male and female): >= 2,000 mg/kg Method: OECD Test Guideline 402 GLP: yes Remarks: No adverse effect has been observed in acute toxicity tests.
<b>propane:</b> Acute inhalation toxicity	:	LC50 (Rat): 658 mg/l Exposure time: 4 h Test atmosphere: gas

## **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

## **Serious eye damage/eye irritation**

Not classified based on available information.

### **Components:**

#### ***ethanol:***

Species: Rabbit  
Result: Moderate eye irritation  
Method: OECD Test Guideline 405

## **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**

Not classified based on available information.

### **IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed

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human carcinogen by IARC.

**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.

**NTP**

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

**Reproductive toxicity**

Not classified based on available information.

**STOT Specific Target Organ Toxicity - single exposure**

Not classified based on available information.

**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 : No data available

Chronic aquatic toxicity : No data available

**Components:**

***ethanol:***

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

***2-methoxy-1-methylethyl acetate:***

Toxicity to fish : LC50 (Oryzias latipes (Orange-red killifish)): >= 100 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 408 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
GLP: yes

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## Persistence and degradability

### Product:

Biodegradability : Remarks: No data available

### Components:

#### ***ethanol:***

Biodegradability : Remarks: No data available

#### ***butane:***

Biodegradability : Remarks: No data available

#### ***2-methoxy-1-methylethyl acetate:***

Biodegradability : Remarks: No data available

#### ***propane:***

Biodegradability : Remarks: No data available

## Bioaccumulative potential

### Product:

Bioaccumulation : Remarks: No data available

### Components:

#### ***ethanol:***

Bioaccumulation : Remarks: No data available

Partition coefficient: n-  
octanol/water : log Pow: -0.349 (24 °C)

#### ***butane:***

Bioaccumulation : Remarks: No data available

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

#### ***2-methoxy-1-methylethyl acetate:***

Bioaccumulation : Remarks: No data available

Partition coefficient: n-  
octanol/water : log Pow: 0.43 (20 °C)  
pH: 7

#### ***propane:***

Bioaccumulation : Remarks: No data available

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

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**Mobility in soil**

**Product:**

Distribution among environmental compartments : Remarks: No data available

**Components:**

***ethanol:***

Distribution among environmental compartments : Remarks: No data available

***butane:***

Distribution among environmental compartments : Remarks: No data available

***2-methoxy-1-methylethyl acetate:***

Distribution among environmental compartments : Remarks: No data available

***propane:***

Distribution among environmental compartments : Remarks: No data available

**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  
 Proper shipping name : Aerosols, flammable  
 Class : 2.1  
 Packing group : Not assigned by regulation

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Labels : 2.1  
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

Pollution category : N/A  
Ship type : N/A

#### National Regulations

##### 49 CFR

UN/ID/NA 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 5a - Not relevant

**TSCA list** : TSCA\_12b - Not relevant

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

##### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

##### SARA 304 Extremely Hazardous Substances Reportable Quantity

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

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

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

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

Chromium III Compounds  
Cobalt, inorganic compounds

**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 contains components that are reportable under the regulation.

**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**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**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/NDSL (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) : On the inventory, or in compliance with the inventory

ENCS (Japan) : On the inventory, or in compliance with the inventory

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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
TCSI (Taiwan)	: On the inventory, or in compliance with the inventory
CICR (Turkey)	: On the inventory, or in compliance with the inventory
INSQ (Mexico)	: Not in compliance with the inventory

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## SECTION 16. OTHER INFORMATION

Revision Date : 08/17/2017



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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