

# SAFETY DATA SHEET

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

LA LMM-14 Aerosol		GSLA_LMM-14 Black Aerosol Spray Can	
Product specification	RS_FP_603542	Revision Date	04/19/2018
Version	1.13	Print Date	06/18/2018
Material number	1407083	Page	Page 1 of 17

## SECTION 1. IDENTIFICATION

Product name : **LA LMM-14 Aerosol**  
GSLA\_LMM-14 Black Aerosol Spray Can

Material number : **1407083**

### 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

Gases under pressure : Category 1

### 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.

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	H350	May cause cancer.
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.
	P264	Wash skin thoroughly after handling.
	P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
	<b>Response:</b>	
	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.
	<b>Storage:</b>	
	P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.
	<b>Disposal:</b>	
	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, organic solvent, aldehyde/ketone, silicatic material, hydrocarbon, aliphatic

**Hazardous components**

Chemical Name	CAS-No.	Concentration (%)
ethanol	64-17-5	>= 30 - < 50
propane	74-98-6	>= 20 - < 30

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Trade Secret Molybdenum Compound	Not Assigned	$\geq 10 - < 20$
acetone	67-64-1	$\geq 5 - < 10$
quartz	14808-60-7	$\geq 1 - < 5$
Trade Secret Mixed Metal Oxide	Not Assigned	$\geq 1 - < 5$
Trade Secret Silicated compound	Not Assigned	$\geq 1 - < 5$

## 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 drowsiness or dizziness. May cause cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs. Causes damage to organs through prolonged or repeated exposure.

## 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.

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## 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	NIOSH REL
			1,900 mg/m3	
		TWA	1,000 ppm	OSHA Z-1
			1,900 mg/m3	
propane	74-98-6	TWA	1,000 ppm	OSHA P0
			1,900 mg/m3	
		STEL	1,000 ppm	ACGIH
		TWA	1,000 ppm	NIOSH REL
			1,800 mg/m3	
		TWA	1,000 ppm	OSHA Z-1
			1,800 mg/m3	
		TWA	1,000 ppm	OSHA P0

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			1,800 mg/m3	
Trade Secret Molybdenum Compound	Not Assigned	TWA	5 mg/m3 (Molybdenum)	OSHA Z-1
		TWA (Respirable fraction)	0.5 mg/m3 (Molybdenum)	ACGIH
		TWA	5 mg/m3 (Molybdenum)	OSHA P0
acetone	67-64-1	TWA	500 ppm	ACGIH
		STEL	750 ppm	ACGIH
		TWA	250 ppm 590 mg/m3	NIOSH REL
		TWA	1,000 ppm 2,400 mg/m3	OSHA Z-1
		TWA	750 ppm 1,800 mg/m3	OSHA P0
		STEL	1,000 ppm 2,400 mg/m3	OSHA P0
quartz	14808-60-7	TWA (total dust)	30 mg/m3 / %SiO2+2	OSHA Z-3
		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 fraction)	0.025 mg/m3 (Silica)	ACGIH
		TWA (Respirable dust)	0.05 mg/m3 (Silica)	NIOSH REL
Trade Secret Mixed Metal Oxide	Not Assigned	TWA	0.015 mg/m3 (Nickel)	NIOSH REL
Trade Secret Silicated compound	Not Assigned	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

## Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
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acetone	67-64-1	Acetone	Urine	End of shift (As soon as possible after exposure ceases)	50 mg/l	ACGIH BEI
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**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 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

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Evaporation rate	: No data available
Burning rate	: No data available
Upper explosion limit	: 19 %(V)
Lower explosion limit	: 2.1 %(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	: 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 contains the following 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

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Conditions to avoid : Extremes of temperature and direct sunlight.

Incompatible materials : No data available

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: > 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

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

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

#### ***Trade Secret Molybdenum Compound:***

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.



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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

***acetone:***

Acute oral toxicity : LD50 Oral (Rat): 5,800 mg/kg

Acute inhalation toxicity : LC50 (Rat): 50,100 mg/m<sup>3</sup>  
Exposure time: 8 h

Acute dermal toxicity : LD50 (Rabbit): > 15,700 mg/kg

***quartz:***

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

***Trade Secret Mixed Metal Oxide:***

Acute oral toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
Assessment: The substance or mixture has no acute oral toxicity  
Remarks: No significant adverse effects were reported

## 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

***Trade Secret Molybdenum Compound:***

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

***acetone:***

Assessment: Irritating to skin.  
Result: Irritating to skin.

***Trade Secret Mixed Metal Oxide:***

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

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GLP: no

## Serious eye damage/eye irritation

Causes serious eye irritation.

### Components:

#### **ethanol:**

Species: Rabbit

Result: Moderate eye irritation

Method: OECD Test Guideline 405

#### **Trade Secret Molybdenum Compound:**

Species: Rabbit

Result: Irritating to eyes.

Assessment: Irritating to eyes.

#### **acetone:**

Result: Irritating to eyes.

Assessment: Irritating to eyes.

#### **Trade Secret Mixed Metal Oxide:**

Species: Rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

GLP: no

## 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

### **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**

Known to be human carcinogen

quartz

14808-60-7

## Reproductive toxicity

Suspected of damaging fertility or the unborn child.

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## STOT Specific Target Organ Toxicity - single exposure

May cause respiratory irritation.  
May cause drowsiness or dizziness.  
Causes damage to organs.

### Components:

#### **Trade Secret Molybdenum Compound:**

Assessment: May cause respiratory irritation.

## STOT Specific Target Organ Toxicity - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

### **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

##### **Trade Secret Molybdenum Compound:**

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

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

##### **acetone:**

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Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4.74 mg/l  
Exposure time: 96 h

LC50 (Pimephales promelas (fathead minnow)): 6,210 - 8,120 mg/l  
Exposure time: 96 h  
Test Type: static test

LC50 (Lepomis macrochirus (Bluegill sunfish)): 8,300 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 10,294 mg/l  
Exposure time: 48 h

**Trade Secret Mixed Metal Oxide:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 100 mg/l  
Exposure time: 96 h  
Test Type: static test  
GLP: yes  
Remarks: No toxicity at the limit of solubility

**Persistence and degradability****Product:**

Biodegradability : Remarks: No data available

**Components:*****ethanol:***

Biodegradability : Remarks: No data available

***propane:***

Biodegradability : Remarks: No data available

***Trade Secret Molybdenum Compound:***

Biodegradability : Remarks: No data available

***acetone:***

Biodegradability : Remarks: No data available

***quartz:***

Biodegradability : Remarks: No data available

***Trade Secret Mixed Metal Oxide:***

Biodegradability : Remarks: No data available

***Trade Secret Silicated compound:***

Biodegradability : Remarks: No data available

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## 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)

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

Bioaccumulation : Remarks: No data available

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

#### ***Trade Secret Molybdenum Compound:***

Bioaccumulation : Remarks: No data available

#### ***acetone:***

Bioaccumulation : Remarks: No data available

Partition coefficient: n-  
octanol/water : log Pow: -0.24

#### ***quartz:***

Bioaccumulation : Remarks: No data available

#### ***Trade Secret Mixed Metal Oxide:***

Bioaccumulation : Remarks: No data available

#### ***Trade Secret Silicated compound:***

Bioaccumulation : Remarks: No data available

## Mobility in soil

### Product:

Distribution among  
environmental compartments : Remarks: No data available

### Components:

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

Distribution among  
environmental compartments : Remarks: No data available

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

Distribution among  
environmental compartments : Remarks: No data available

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***Trade Secret Molybdenum Compound:***

Distribution among : Remarks: No data available  
environmental compartments

***acetone:***

Distribution among : Remarks: No data available  
environmental compartments

***quartz:***

Distribution among : Remarks: No data available  
environmental compartments

***Trade Secret Mixed Metal Oxide:***

Distribution among : Remarks: No data available  
environmental compartments

***Trade Secret Silicated compound:***

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

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Packing instruction : 203  
(passenger aircraft)

## 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/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\_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)
acetone	67-64-1	5000	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

## 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  
Chronic Health Hazard  
Acute Health Hazard

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- 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
- Nickel 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

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

## 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



# SAFETY DATA SHEET



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

LA LMM-14 Aerosol		GSLA_LMM-14 Black Aerosol Spray Can	
Product specification	RS_FP_603542	Revision Date	04/19/2018
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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
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 : 04/19/2018

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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