



1407093GSLA T LMM-6000 Aerosol Spray CanProduct specificationRS_FP_603544Revision Date11/02/2015

 Version
 1
 Print Date
 11/30/2015

 Material number
 1407093
 Page
 Page 1 of 14

SECTION 1. IDENTIFICATION

Product name : GSLA T LMM-6000 Aerosol Spray Can

00000000001407093

Product code : RS FP 603544

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

Disposal considerations : Dispose of wastes in an approved waste disposal facility.

Emergency telephone number

CHEMTREC In-Country : (800)424-9300

Number

CHEMTREC Global Number : +(1)-703-527-3887(Call Collect)

Recommended use of the chemical and restrictions on use

Recommended use : Industrial use

Restrictions on use : Reserved for industrial and professional use.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable aerosols : Category 1

Eye irritation : Category 2A

Germ cell mutagenicity : Category 1B

Carcinogenicity : Category 1A

Reproductive toxicity : Category 1A

Specific target organ toxicity

- single exposure

: Category 1

Specific target organ toxicity

- single exposure

: Category 3 (Respiratory system, Central nervous system)

Specific target organ toxicity

- repeated exposure

: Category 1

GHS Label element



1407093 GSLA T LMM-6000 Aerosol Spray Can

Product specification Version

Material number

RS_FP_603544 1

1407093

Revision Date Print Date Page

11/02/2015 11/30/2015 Page 2 of 14

Hazard pictograms







Signal word : Danger

Hazard statements : H222 Extremely flammable aerosol.

H319 Causes serious eye irritation. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness.

H340 May cause genetic defects.

H350 May cause cancer.

H360 May damage fertility or the unborn child.

H370 Causes damage to organs.

H372 Causes damage to organs through prolonged or repeated

exposure.

Precautionary statements : F

: 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

1150

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

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 eye protection/ face protection.

P281 Use personal protective equipment as required.

Response:

P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position 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.

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.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.



1407093 GSLA T LMM-6000 Aerosol Spray Can

 Product specification
 RS_FP_603544
 Revision Date
 11/02/2015

 Version
 1
 Print Date
 11/30/2015

 Material number
 1407093
 Page
 Page 3 of 14

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : silicatic material, metal oxide/hydroxide, alcohol, hydrocarbon,

aliphatic

Hazardous components

Chemical Name	CAS-No.	Concentration (%)
ethanol	64-17-5	>= 20 - < 30
propane	74-98-6	>= 20 - < 30
Trade Secret Molybdenum Compound	Not Assigned	>= 5 - < 10
Trade Secret Mica compound	Not Assigned	>= 1 - < 5
Trade Secret Vanadium Compound	Not Assigned	>= 0.1 - < 1
2-butoxyethanol	111-76-2	>= 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 drowsiness or dizziness.

May cause genetic defects.

May cause cancer.

May damage fertility or the unborn child.

Causes damage to organs.

Causes damage to organs through prolonged or repeated

exposure.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local



1407093		GSLA T LMM-6000	GSLA T LMM-6000 Aerosol Spray Can		
Product specification	RS_FP_603544	Revision Date	11/02/2015		
Version	1	Print Date	11/30/2015		
Material number	1407093	Page	Page 4 of 14		

circumstances and the surrounding environment.

Unsuitable extinguishing

media

: Do not use a solid water stream as it may scatter and spread

fire

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.

Specific extinguishing

methods

:

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 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	NIOSH REL



 1407093
 GSLA T LMM-6000 Aerosol Spray Can

 Product specification
 RS_FP_603544
 Revision Date
 11/02/2015

 Version
 1
 Print Date
 11/30/2015

 Material number
 1407093
 Page
 Page 5 of 14

			1,900 mg/m3	
		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
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
Trade Secret Molybdenum Compound		TWA	5 mg/m3 (Molybdenum)	OSHA Z-1
		TWA (Respirable fraction)	0.5 mg/m3 (Molybdenum)	ACGIH
		TWA	5 mg/m3 (Molybdenum)	OSHA P0
Trade Secret Mica compound		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
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

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Samplin g time	Permissible concentration	Basis
2-butoxyethanol	111-76-2	Butoxyaceti c acid (BAA)	Urine	End of shift (As soon as possible after exposure ceases)	200 mg/g Creatinine	ACGIH BEI

Engineering measures

: Apply technical measures to comply with the occupational

exposure limits.

Provide adequate ventilation.



1407093 GSLA T LMM-6000 Aerosol Spray Can RS_FP_603544

Product specification Version

Revision Date Print Date

11/02/2015 11/30/2015

Material number

1407093

Page Page 6 of 14

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.

Remove contaminated clothing and protective equipment Hygiene measures

before entering eating areas.

Wash hands before breaks and immediately after handling

the product.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : aerosol

Colour coloured

Odour characteristic

Odour Threshold : No data available

: No data available pН

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : 14 °C

> Method: calculated not write protected

No data available Evaporation rate

Upper explosion limit : No data available

: No data available Lower explosion limit

: No data available Vapour pressure

Relative vapour density : No data available

Relative density : No data available

Bulk density : No data available

Solubility(ies)



 1407093
 GSLA T LMM-6000 Aerosol Spray Can

 Product specification
 RS_FP_603544
 Revision Date
 11/02/2015

 Version
 1
 Print Date
 11/30/2015

 Material number
 1407093
 Page
 Page 7 of 14

Water solubility : soluble

Partition coefficient: n-

octanol/water

: No data available

Auto-ignition temperature : not determined

Viscosity

Viscosity, kinematic : No data available

Oxidizing properties : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No data available

Chemical stability : No data available

Possibility of hazardous

reactions

: No data available

Conditions to avoid : Incompatible materials

Incompatible materials : Incompatible with oxidizing agents.

Incompatible with strong acids and bases.

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

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

Exposure time: 4 h

Test atmosphere: dust/mist Method: Calculation method

Components:

ethanol:

Acute oral toxicity : LD50 Oral (Rat): 7,060 mg/kg

Acute inhalation toxicity : LC50 (Rat): 124.7 mg/l

Exposure time: 4 h



1407093GSLA T LMM-6000 Aerosol Spray CanProduct specificationRS_FP_603544Revision Date11/02/2015Version1Print Date11/30/2015Material number1407093PagePage 8 of 14

propane:

Acute inhalation toxicity : LC50 (Rat): 658 mg/l

Exposure time: 4 h

Trade Secret Molybdenum Compound:

Acute inhalation toxicity : LC50 (Rat): > 5,840 mg/m3

Exposure time: 4 h

Trade Secret Vanadium Compound:

Acute inhalation toxicity : LC50 (Rat): 7,800 µg/m3

Exposure time: 4 h

2-butoxyethanol:

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

Acute dermal toxicity : Acute toxicity estimate : 1,100 mg/kg

Method: Converted acute toxicity point estimate

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Causes serious 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

May cause genetic defects.

Carcinogenicity

May cause cancer.

IARC Group 1: Carcinogenic to humans

ethanol 64-17-5

ACGIH Confirmed animal carcinogen with unknown relevance to

humans

2-butoxyethanol 111-76-2

Trade Secret Molybdenum

Compound

ethanol 64-17-5

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.



1407093 GSLA T LMM-6000 Aerosol Spray Can Product specification

Version

RS_FP_603544

Revision Date Print Date

11/02/2015 11/30/2015

Material number 1407093 Page 9 of 14 Page

Reproductive toxicity

May damage fertility or the unborn child.

STOT - single exposure

May cause respiratory irritation.

May cause drowsiness or dizziness.

Causes damage to organs.

STOT - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Aspiration toxicity

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

ethanol:

Toxicity to fish : LC50 (Fish): 12 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

: LC50 (Daphnia (water flea)): 9,268 mg/l

aquatic invertebrates

Exposure time: 48 h

Trade Secret Vanadium Compound:

Toxicity to fish : LC50 (Fish): 1.5 mg/l

Exposure time: 144 h

2-butoxyethanol:

Toxicity to fish : LC50 (Fish): 1,490 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

: EC50 (Daphnia (water flea)): 1,698 mg/l

aquatic invertebrates

Exposure time: 24 h

Persistence and degradability

Components:

ethanol:

Biodegradability : Remarks: No data available

propane:

Biodegradability : Remarks: No data available

Trade Secret Molybdenum Compound:

: Remarks: No data available Biodegradability

Trade Secret Mica compound:

Biodegradability : Remarks: No data available

Trade Secret Vanadium Compound:



1407093 GSLA T LMM-6000 Aerosol Spray Can Product specification RS_FP_603544 Revision Date 11/02/2015

 Version
 1
 Print Date
 11/30/2015

 Material number
 1407093
 Page
 Page 10 of 14

Biodegradability : Remarks: No data available

2-butoxyethanol:

Biodegradability : Remarks: No data available

Bioaccumulative potential

Components:

ethanol:

Bioaccumulation : Remarks: No data available

propane:

Bioaccumulation : Remarks: No data available

Trade Secret Molybdenum Compound:

Bioaccumulation : Remarks: No data available

Trade Secret Mica compound:

Bioaccumulation : Remarks: No data available

Trade Secret Vanadium Compound:

Bioaccumulation : Remarks: No data available

2-butoxyethanol:

Bioaccumulation : Remarks: No data available

Mobility in soil

Components:

ethanol:

Distribution among : Remarks: No data available

environmental compartments

propane:

Distribution among : Remarks: No data available

environmental compartments

Trade Secret Molybdenum Compound:

Distribution among : Remarks: No data available

environmental compartments

Trade Secret Mica compound:

Distribution among : Remarks: No data available

environmental compartments

Trade Secret Vanadium Compound:

Distribution among : Remarks: No data available

environmental compartments

2-butoxyethanol:

Distribution among : Remarks: No data available

environmental compartments



 1407093
 GSLA T LMM-6000 Aerosol Spray Can

 Product specification
 RS_FP_603544
 Revision Date
 11/02/2015

 Version
 1
 Print Date
 11/30/2015

 Material number
 1407093
 Page
 Page 11 of 14

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

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

SECTION 14. TRANSPORT INFORMATION

International Regulation

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 : 203

aircraft)

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 DOT

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 12b - Not relevant



 1407093
 GSLA T LMM-6000 Aerosol Spray Can

 Product specification
 RS_FP_603544
 Revision Date
 11/02/2015

 Version
 1
 Print Date
 11/30/2015

 Material number
 1407093
 Page
 Page 12 of 14

SARA 311/312 Hazards : Fire Hazard

Chronic Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313 : The following components are subject to reporting levels

established by SARA Title III, Section 313:

Trade Secret Molybdenum

Compound

Massachusetts Right To Know

ethanol 64-17-5 propane 74-98-6

Trade Secret Molybdenum Compound

Trade Secret Mica compound

quartz 14808-60-7

Pennsylvania Right To Know

ethanol 64-17-5 propane 74-98-6

Trade Secret Molybdenum Compound

Trade Secret Mica compound

Trade Secret Vanadium Compound

ethyl acetate 141-78-6

New Jersey Right To Know

ethanol 64-17-5 propane 74-98-6

Trade Secret Molybdenum Compound

Trade Secret Mica compound

2-butoxyethanol 111-76-2

California Prop 65 WARNING: This product contains a chemical known to the

State of California to cause birth defects or other reproductive

harm.

ethanol 64-17-5

WARNING! This product contains a chemical known to the

State of California to cause cancer.

ethanol 64-17-5 quartz 14808-60-7

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

REACH : Not in compliance with the inventory

: Quaternary ammonium compounds, bis(hydrogenated tallow

alkyl)dimethyl, salts with bentonite

CH INV : Not in compliance with the inventory



 1407093
 GSLA T LMM-6000 Aerosol Spray Can

 Product specification
 RS_FP_603544
 Revision Date
 11/02/2015

 Version
 1
 Print Date
 11/30/2015

 Material number
 1407093
 Page
 Page 13 of 14

: Trade Secret Mica compound

: Trade Secret cellulose compound

: polymer substances

TSCA : Not On TSCA Inventory

: polymer substances

DSL : This product contains the following components that are not

on the Canadian DSL nor NDSL.

: polymer substances

AICS : Not in compliance with the inventory

polymer substances

NZIoC : Not in compliance with the inventory

: polymer substances

ENCS : Not in compliance with the inventory

: Trade Secret Mica compound

: Quaternary ammonium compounds, bis(hydrogenated tallow

alkyl)dimethyl, salts with bentonite

: polymer substances

ISHL : Not in compliance with the inventory

: Trade Secret Mica compound

: Quaternary ammonium compounds, bis(hydrogenated tallow

alkyl)dimethyl, salts with bentonite

: polymer substances

KECI : Not in compliance with the inventory

: polymer substances

PICCS : Not in compliance with the inventory

polymer substances

IECSC : Not in compliance with the inventory

: polymer substances

Inventories



1407093 GSLA T LMM-6000 Aerosol Spray Can

Product specificationRS_FP_603544Revision Date11/02/2015Version1Print Date11/30/2015Material number1407093PagePage 14 of 14

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA), CH INV (Switzerland), MY INV (Malaysia), TR INV (Turkey), TW INV (Taiwan)

SECTION 16. OTHER INFORMATION

Revision Date : 11/02/2015

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.