

1407097 GSLA T LMM-6018 MarkingTape 2"x50ft roll

 Product specification
 RS_FP_303534
 Revision Date
 02/08/2016

 Version
 1
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 04/04/2016

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SECTION 1. IDENTIFICATION

Product name : GSLA T LMM-6018 MarkingTape 2"x50ft roll

00000000001407097

Product code : RS FP 303534

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

Restrictions on use : Reserved for industrial and professional use.

Industrial use

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Recommended use

Germ cell mutagenicity : Category 1B

Carcinogenicity : Category 1B

Aspiration hazard : Category 1

GHS Label element

Hazard pictograms :



Signal word : Danger

Hazard statements : H304 May be fatal if swallowed and enters airways.

H340 May cause genetic defects.

H350 May cause cancer.

Precautionary statements : **Prevention**:

P201 Obtain special instructions before use.



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P202 Do not handle until all safety precautions have been read

and understood.

P281 Use personal protective equipment as required.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON

CENTER or doctor/ physician.

P308 + P313 IF exposed or concerned: Get medical advice/

attention.

P331 Do NOT induce vomiting.

Disposal:

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 : organic solvent, synthetic polymer, inorganic pigment,

glass/frit

Hazardous components

Chemical Name	CAS-No.	Concentration (%)
Trade Secret Iron cobalt chromite compound	Not Assigned	>= 50 - < 70
glass, oxide, chemicals	65997-17-3	>= 10 - < 20
solvent naphtha (petroleum), light, aromatic	64742-95-6	>= 5 - < 10
solvent naphtha (petroleum), heavy, aromatic	64742-94-5	>= 1 - < 5
solvent naphtha (petroleum), light	64742-89-8	>= 1 - < 5
aliph.(benzene content < 0.1%)		

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.



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Most important symptoms and effects, both acute and

and effects, both acute and delayed

: May be fatal if swallowed and enters airways.

May cause genetic defects.

May cause cancer.

SECTION 5. FIREFIGHTING MEASURES

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

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.

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.

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	Control	Basis
		(Form of	parameters /	
		exposure)	Permissible	



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			concentration	
glass, oxide, chemicals	65997-17-3	TWA	1 fibre/cm3	ACGIH
solvent naphtha (petroleum), light, aromatic	64742-95-6	TWA	500 ppm 2,000 mg/m3	OSHA Z-1
		TWA	400 ppm 1,600 mg/m3	OSHA P0
		TWA	200 mg/m3 (as total hydrocarbon vapor)	ACGIH
solvent naphtha (petroleum), heavy, aromatic	64742-94-5	TWA	500 ppm 2,000 mg/m3	OSHA Z-1
		TWA	200 mg/m3 (as total hydrocarbon vapor)	ACGIH
		TWA	400 ppm 1,600 mg/m3	OSHA P0
solvent naphtha (petroleum), light aliph.(benzene content < 0.1%)	64742-89-8	TWA	500 ppm 2,000 mg/m3	OSHA Z-1
		TWA	400 ppm 1,600 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.

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 : paste

Colour : black



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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 : Not applicable

Evaporation rate : Not applicable

Burning rate : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

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 : insoluble

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

Auto-ignition temperature : not determined

Thermal decomposition : No data available

Viscosity

Viscosity, dynamic : Not applicable

Viscosity, kinematic : No data available

Explosive properties : No data available

Oxidizing properties : No data available

Refractive index : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Stable under recommended storage conditions.



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No decomposition if stored and applied as directed.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous

reactions

: No hazards to be specially mentioned.

Conditions to avoid : Incompatible materials

Incompatible materials : Incompatible with oxidizing agents.

Incompatible with strong acids and bases.

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 : Remarks: No data available

Acute toxicity estimate : > 5,000 mg/kg

Method: Calculation method

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

Acute toxicity estimate: > 5,000 mg/kg

Method: Calculation method

Components:

glass, oxide, chemicals:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

solvent naphtha (petroleum), light, aromatic:

Acute oral toxicity : LD50 Oral (Rat): 8,400 mg/kg

Acute inhalation toxicity : LC50 (Rat): 3400 ppm

Exposure time: 4 h

Acute dermal toxicity : LD50 Dermal (Rabbit): > 2,000 mg/kg

solvent naphtha (petroleum), heavy, aromatic:

Acute oral toxicity : LD50 Oral (Rat): > 5,000 mg/kg



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solvent naphtha (petroleum), light aliph.(benzene content < 0.1%):
Acute oral toxicity : LD50 Oral (Mouse): 5,000 mg/kg

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

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

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 2A: Probably carcinogenic to humans

glass, oxide, chemicals 65997-17-3

Group 2B: Possibly carcinogenic to humans

solvent naphtha (petroleum), 64742-89-8

light aliph.(benzene content <

0.1%)

glass, oxide, chemicals 65997-17-3

ACGIH Confirmed animal carcinogen with unknown relevance to

humans

solvent naphtha (petroleum), 64742-95-6

light, aromatic

solvent naphtha (petroleum), 64742-94-5

heavy, aromatic

Trade Secret Iron cobalt chromite compound

glass, oxide, chemicals 65997-17-3

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.



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Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

May be fatal if swallowed and enters airways.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Ecotoxicology Assessment

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

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

Components:

glass, oxide, chemicals:

Toxicity to fish : LC50 (Fish): > 1,000 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia (water flea)): > 100 mg/l

Exposure time: 48 h

Toxicity to algae : IC50 (algae): > 1,000 mg/l

Exposure time: 72 h

solvent naphtha (petroleum), light, aromatic:

Toxicity to fish : LC50 (Fish): 9.22 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

: EC50 (Daphnia (water flea)): 6.14 mg/l

aquatic invertebrates

Exposure time: 48 h

Persistence and degradability

Product:

Biodegradability : Remarks: No data available

Components:

Trade Secret Iron cobalt chromite compound:

Biodegradability : Remarks: No data available

solvent naphtha (petroleum), light, aromatic:

Biodegradability : Remarks: No data available

solvent naphtha (petroleum), heavy, aromatic:



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Biodegradability : Remarks: No data available

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

Components:

Trade Secret Iron cobalt chromite compound:

Bioaccumulation : Remarks: No data available

solvent naphtha (petroleum), light, aromatic:

Bioaccumulation : Remarks: No data available

solvent naphtha (petroleum), heavy, aromatic:

Bioaccumulation : Remarks: No data available

Mobility in soil

Product:

Distribution among : Remarks: No data available

environmental compartments

Components:

Trade Secret Iron cobalt chromite compound:

Distribution among : Remarks: No data available

environmental compartments

solvent naphtha (petroleum), light, aromatic:

Distribution among : Remarks: No data available

environmental compartments

solvent naphtha (petroleum), heavy, aromatic:

Distribution among : Remarks: No data available

environmental compartments

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

UNRTDG



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Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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 DOT

Not regulated as a hazardous material

SECTION 15. REGULATORY INFORMATION

TSCA list : TSCA 5a - Not relevant

TSCA_12b - Not relevant

SARA 311/312 Hazards : Chronic Health Hazard

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

requirements of SARA Title III, Section 302.

SARA 313 : This product contains components that are reportable under

the regulation.

Massachusetts Right To Know

No components are subject to the Massachusetts Right to

Know Act.

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:

REACH : On the inventory, or in compliance with the inventory

CH INV : Not in compliance with the inventory

TSCA : On TSCA Inventory

DSL : All components of this product are on the Canadian DSL.



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AICS : Not in compliance with the inventory

NZIoC : On the inventory, or in compliance with the inventory

ENCS : Not in compliance with the inventory

ISHL : Not in compliance with the inventory

KECI : Not in compliance with the inventory

PICCS : Not in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

Inventories

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 : 02/08/2016

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.