

REEF INDUSTRIES INC
SAFETY DATA SHEET
GRIFF TAPE® FR

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATIONS AND OF THE COMPANY UNDERTAKING

Product Name: GRIFF TAPE® FR
Product Description: Rubber Based Pressure Sensitive Adhesive
Manufacturer/Supplier: Reef Industries Inc. 9209 Almeda Genoa Road Houston, TX 77075
Phone Number: (800) 231-6074 (Monday – Friday 8:00 am to 5:00 pm)
24 Hr Number: 713 507-4349
Revision Date: 17 October 2014
SDS Date: 28 March 2013

Safety Data Sheet according to OSHA's Hazcom Standard (29 CFR 1910.1200)

2. HAZARDS IDENTIFICATION

EU Main Hazards

Not classified as hazardous.

Routes of Entry

-Inhalation -Skin contact

Carcinogenic Status

See Section 11

Target Organs

-Skin

Health Effects -Eyes

Contact may cause irritation due to mechanical abrasion.

Health Effects -Skin

Prolonged, repeated contact with adhesive may cause irritation and allergic sensitization.

Health Effects -Ingestion

Not an expected route of entry during normal handling and use.

Health Effects -Inhalation

Not expected to cause irritation during normal handling and use.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component Name	CAS#/Codes	Concentration	R Phrases	Classification
Polymers, rubbers and resins	N.A.	<20%	None	None
Hydrocarbon resin	N.A.	<20%	None	None
Inorganic Compound	N.A.	<10%	None	None
Antimony Trioxide	1309-64-4/ 215-175-0	<10%	R-40	Xn, Carc. Cat 3
Titanium Dioxide	13463-67-7 236-675-5	0.1-<1%	None	None
Chlorinated Paraffin	108171-26-2	1-5%	None	None
Flame Retardant Compound	N.A.	1-10%	None	None

4. FIRST AID MEASURES

Eyes

Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

Skin

Wash skin thoroughly with soap and water. Obtain medical attention if blistering occurs or redness persists.

Ingestion

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Obtain medical attention immediately.

Inhalation

Remove person to fresh air. Seek medical attention if symptoms persist.

Advice to Physicians

Treat symptomatically.

5. FIRE -FIGHTING MEASURES

Extinguishing Media

Water spray, carbon dioxide and dry chemical.

Unusual Fire and Explosion Hazard

Can release hazardous vapors during a fire.

Protective Equipment for Fire-Fighting

Wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

No specific measures necessary. Prevent the material from entering drains or watercourses.

7. HANDLING AND STORAGE

Keep away from heat and sources of ignition. Exposure to high heat or flame can release irritating and toxic fumes. Storage area should be: -cool -dry -well ventilated -away from incompatible materials

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Standards

Exposure limits are listed below, if they exist.

Polymers, rubbers and resins

None established

Hydrocarbon Resin

None established

Ester of Hydrogenated Rosin

None established

Engineering Control Measures

No specific measures necessary. Good general room ventilation is expected to be adequate to control airborne levels.

Respiratory Protection

Respiratory protection not normally required.

Hand Protection

Not required under normal conditions of use. However, care should be taken to avoid contact with the adhesive.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Antimony Trioxide (as Sb)

ACGIH TLV: 0.5 mg/m³ TWA

OSHA PEL: 05 MG/M³ TWA

Titanium Dioxide

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ACGIH TLV: 10mg/m3 TWA
OSHA PEL: 15 mg/m3 TWA (total dust)

Engineering Control Measures

No specific measures necessary. Good general room ventilation is expected to be adequate to control airborne levels.

Eye Protection

Safety glasses

Body Protection

Normal work wear.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Polyethylene coated cloth backing with rubber based adhesive

Color: white with milky white adhesive

Odor: Slight

pH: Not applicable

Specific Gravity: No data available

Boiling Range/Point (°C/F): Not applicable

Melting Point (°C/F): Not applicable

Flash Point (PMCC) (°C/F): Not known

Explosion Limits: (%) No data available

Vapor Pressure: Not applicable

Density: No data.

Solubility in Water: Not known

Vapor Density (Air = 1) Not applicable

10. STABILITY AND REACTIVITY

Stability

Stable under normal conditions.

Conditions to Avoid

-Heat -High temperatures

Materials to Avoid

Strong oxidizers

Hazardous Polymerization

Will not occur.

Hazardous Decomposition Products

- oxides of carbon - hydrocarbons - aldehydes - acrolein - waxes -
oligomers - oxygenated hydrocarbons - Ketones - irritating fumes hydrogen
chloride - oxides of antimony - hydrogen bromide.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Chlorinated Paraffin: LD50 oral (rat): >4000 mg/kg

Antimony Trioxide: LD50 oral (rat): >34600 mg/kg

Flame Retardant Compound: LD50 oral (rat): >5000mg/kg, LD50 dermal (rabbit)
>2000 mg/kg

Specific Target Organ Systemic Toxicity (single and repeat)

No relevant studies identified.

Serious Eye damage/Eye Irritation

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May cause irritation due to mechanical abrasion.

Skin Corrosion/Irritation

May cause slight irritation on prolonged, repeated contact.

Respiratory or Skin Sensitization

No relevant studies identified.

Carcinogenicity

Chlorinated Paraffin: IARC: Overall evaluation is 2B (possibly carcinogenic to humans)

NTP: Anticipated Carcinogen Antimony Trioxide: IARC Overall Evaluation is 2B (Possibly carcinogenic to humans) When encapsulated in the adhesive matrix the risk of exposure is reduced. Titanium Dioxide: IARC Overall Evaluation is 2B (Possibly carcinogenic to humans) IARC conclusions are based on evidence showing that high concentrations of pigment-grade (powdered) and ultrafine titanium dioxide dust caused respiratory tract cancer in rats exposed by inhalation and intratracheal instillation. Human studies conducted so far do not suggest an association between occupational exposure to titanium dioxide and an increased risk for cancer. Since this product is an adhesive, the titanium dioxide is no longer in a dust form. Flame Retardant Compound: From data comparison to similar compounds, the Environmental Protection Agency has concluded that this substance may cause cancer as a result of significant chronic dermal and inhalation exposures to workers.

Germ Cell Mutagenicity

No relevant studies identified.

Toxicity to Reproduction

No relevant studies identified.

12. ECOLOGICAL INFORMATION

Mobility

No relevant studies identified.

Persistence/Degradability

No relevant studies identified.

Bio-accumulation

No relevant studies identified.

Ecotoxicity

Flame Retardant Compound: Based on comparison to similar compounds, the EPA has determined that this compound may be toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with all applicable local and national regulations.

14. TRANSPORT INFORMATION

DOT CFR 172.101 Data
Transportation (IATA)
Not Regulated

15. REGULATORY INFORMATION

EU Label Information

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Classification and labelling have been performed according to EU directives 67/548/EEC and 99/45/EC including amendments(2001/60/EC and 2006/8/EC)

EC Annex I Classification

According to EC Commission Directive 67/548/EEC this product is not classified.

R phrases

None.

S phrases

None.

US REGULATIONS (Federal, State) and INTERNATIONAL CHEMICAL REGISTRATION LAWS

TSCA Listing

This product contains ingredients that are listed on or exempt from listing on the EPA Toxic Substance Control Act Chemical Inventory.

EINECS Listing

All ingredients in this product have not been verified for inclusion on the European Inventory of Existing Commercial Chemical Substances (EINECS) or specifically exempted.

DSL (Canadian) Listing

This product contains an ingredient that is not listed on the Domestic Substance List (DSL) or the Non-Domestic Substance List (NDSL).

California Proposition 65

This product contains the following materials which the State of California has found to cause cancer, birth defects or other reproductive harm: Arsenic (7440-38-2) <0.02% - Lead (7439-92-1) <0.02% - Chlorinated Paraffin (108171-26-2) <10% - Antimony Trioxide(1309-64-4) <10%

SARA Title III Sect. 311/312 Categorization

Immediate (acute) Delayed (chronic)

SARA Title III Sect. 313

This product contains the following chemicals that are listed in Section 313 at or above de minimis concentrations: Antimony Trioxide (1309-64-4) <10% - Zinc Oxide (1314-13-2) <2%
US REGULATIONS (Federal, State) and INTERNATIONAL CHEMICAL REGISTRATION LAWS

16. OTHER INFORMATION

NFPA Ratings

NFPA Code for Flammability -0
NFPA Code for Health -1
NFPA Code for Reactivity -0
NFPA Code for Special Hazards - 0

HMIS Ratings

HMIS Code for Flammability -0
HMIS Code for Health -1
HMIS Code for Reactivity -0
HMIS Code for Personal Protection -See Section 8

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Abbreviations

N/A: Denotes no applicable information found or available
CAS#: Chemical Abstracts Service Number
ACGIH: American Conference of Governmental Industrial Hygienists
OSHA: Occupational Safety and Health Administration
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
STEL: Short Term Exposure Limit
NTP: National Toxicology Program
IARC: International Agency for Research on Cancer
R: Risk
S: Safety
LC50: Lethal Concentration 50%
LD50: Lethal Dose 50%
BOD: Biological Oxygen Demand
KoC: Soil Organic Carbon Partition Coefficient
R40: Limited evidence of a carcinogenic effect.
Xn: Harmful

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