

Material Safety Data Sheet

Issuing Date 29-May-2013

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Revision Number 2

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Swain GU24 Lighting Fixtures

Recommended Use Lights, Fluorescent.

Supplier Address

AFX Lighting Incorporated
2345 N. Ernie Krueger Circle
Waukegan
IL
60087
US
Phone:877-561-5642
Fax:847-693-3372
Contact:Susan Sturino
Email:ssturino@afxlighting.com
Contact Phone877-561-5642

2. HAZARDS IDENTIFICATION

Emergency Overview

This product is an article. No exposure to hazardous chemicals is expected to occur during intended product use. Misuse of the product may result in exposure to hazardous chemicals.

Appearance Multiple Colors

Physical State Solid.

Odor Odorless

Potential Health Effects

Principle Routes of Exposure

Eye contact. Skin contact.

Acute Toxicity

Eyes

In case of rupture: Irritating to eyes.

Skin

In case of rupture: Irritating to skin. May be harmful in contact with skin.

Inhalation

In case of rupture: May be harmful if inhaled.

Ingestion

In case of rupture: Harmful if swallowed.

Chronic Effects

No known effect based on information supplied.

Aggravated Medical Conditions

None known.

Environmental Hazard

See Section 12 for additional Ecological Information. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS-No | Weight % |
|--------------------|-------------|----------|
| Glass | 308066-74-2 | 60-100 |
| Steel, (AISI 1035) | 12725-37-0 | 15-40 |
| Plastic | RR-20049-7 | 1 - 5 |
| Mercury | 7439-97-6 | < 0.1 |

4. FIRST AID MEASURES

| | |
|-----------------------------------|--|
| General Advice | In case of rupture: |
| Eye Contact | Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Call a physician immediately. |
| Skin Contact | Immediate medical attention is required. Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. |
| Inhalation | Immediate medical attention is required. Move to fresh air. If not breathing, give artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. |
| Ingestion | Do NOT induce vomiting. Call a physician or Poison Control Center immediately. Never give anything by mouth to an unconscious person. |
| Notes to Physician | Treat symptomatically. |
| Protection of First-aiders | Use personal protective equipment. Avoid contact with skin, eyes and clothing. |

5. FIRE-FIGHTING MEASURES

| | |
|---|---|
| Flammable Properties | Not flammable. |
| Flash Point | Not determined. |
| Suitable Extinguishing Media | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Hazardous Combustion Products | Hazardous metal fumes and oxides. |
| Explosion Data | |
| Sensitivity to Mechanical Impact | No. |
| Sensitivity to Static Discharge | No. |

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

| NFPA | Health Hazard 1 | Flammability 0 | Stability 0 | Physical and Chemical Hazards - |
|-------------|------------------------|-----------------------|--------------------|--|
| | | | | |

6. ACCIDENTAL RELEASE MEASURES

| | |
|----------------------------------|--|
| Personal Precautions | Avoid contact with skin, eyes and clothing. |
| Environmental Precautions | Refer to protective measures listed in Sections 7 and 8. |
| Methods for Containment | Prevent further leakage or spillage if safe to do so. |
| Methods for Cleaning Up | Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly. Use personal protective equipment. |

7. HANDLING AND STORAGE

| | |
|-----------------|--|
| Handling | In case of rupture: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. |
|-----------------|--|

| | |
|---------|------------------------------|
| Storage | Store in original container. |
|---------|------------------------------|

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|----------------------|------------------------------------|---|---|
| Mercury 7439-97-6 | TWA: 0.025 mg/m ³ S* | (vacated) TWA: 0.05 mg/m ³ vapor (vacated) STEL: 0.03 mg/m ³ (vacated) S* (vacated) Ceiling: 0.1 mg/m ³ | IDLH: 10 mg/m ³ Ceiling: 0.1 mg/m ³ TWA: 0.05 mg/m ³ vapor |

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

| | |
|-------------------------------|--|
| Other Exposure Guidelines | Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992). |
| Engineering Measures | Showers Eyewash stations Ventilation systems |
| Personal Protective Equipment | |
| Eye/Face Protection | Tightly fitting safety goggles. |
| Skin and Body Protection | Protective gloves. |
| Respiratory Protection | No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. |
| Hygiene Measures | Handle in accordance with good industrial hygiene and safety practice. |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|----------------------------|---------------------------|--|--------------------------|
| Appearance | Multiple Colors. | Odor | Odorless. |
| Odor Threshold | No information available | Physical State | Solid |
| pH | No information available | | |
| Flash Point | No information available. | Autoignition Temperature | No information available |
| Decomposition Temperature | No information available | Boiling Point/Range | No information available |
| Melting Point/Range | No information available | | |
| Flammability Limits in Air | No information available | Explosion Limits | No information available |
| Water Solubility | Insoluble | Solubility | No information available |
| Evaporation Rate | No information available | Vapor Pressure | No data available |
| Vapor Density | No data available | Partition Coefficient: n-octanol/water | |

10. STABILITY AND REACTIVITY

| | |
|----------------------------------|--|
| Stability | Stable under recommended storage conditions. |
| Incompatible Products | None known. |
| Conditions to Avoid | None known. |
| Hazardous Decomposition Products | Metal oxides. |
| Hazardous Polymerization | Hazardous polymerization does not occur. |

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information

Product does not present an acute toxicity hazard based on known or supplied information.

Chronic Toxicity

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|---------------|-------|---------|-----|------|
| Mercury | | Group 3 | | |

IARC: (International Agency for Research on Cancer)

Group 3 - Not Classifiable as to Carcinogenicity in Humans

Target Organ Effects

None known.

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

| Chemical Name | Toxicity to Algae | Toxicity to Fish | Toxicity to Microorganisms | Daphnia Magna (Water Flea) |
|---------------|-------------------|--|----------------------------|-----------------------------------|
| Mercury | | LC50: 0.18 mg/L (96 h static) Cyprinus carpio LC50: 0.9 mg/L (96 h flow-through) Oryzias latipes LC50: 0.16 mg/L (96 h semi-static) Cyprinus carpio LC50: 0.5 mg/L (96 h) Cyprinus carpio | | EC50: 5.0 µg/L (96 h) water flea |

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

Contaminated Packaging Dispose of in accordance with local regulations.

US EPA Waste Number D009

| Chemical Name | RCRA | RCRA - Basis for Listing | RCRA - D Series Wastes | RCRA - U Series Wastes |
|---------------------|------|--|---------------------------|------------------------|
| Mercury - 7439-97-6 | U151 | Included in waste streams: F039, K071, K106, K175 | 0.2 mg/L regulatory level | U151 |

California Hazardous Waste Codes M003

This product contains one or more substances that are listed with the State of California as a hazardous waste.

| Chemical Name | California EHW | California Carc | California Hazardous Waste | California Waste - Part 2 |
|---------------|----------------|-----------------|----------------------------|--|
| Mercury | Toxic | | Toxic | STLC (for PBTs): 0.2 mg/L TTLC (for P&Bs) (EHW): 2000 mg/kg as Hg TTLC (for PBTs): 20 mg/kg TCLP (for CA Toxicity): 0.2 mg/L |

14. TRANSPORT INFORMATION

DOT NOT REGULATED

TDG Not regulated

MEX Not regulated

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

| | |
|------|----------------|
| TSCA | Complies |
| DSL | Not determined |

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

| Chemical Name | CAS-No | Weight % | SARA 313 - Threshold Values % |
|---------------|-----------|----------|-------------------------------|
| Mercury | 7439-97-6 | < 0.1 | 10 |

SARA 311/312 Hazard Categories

| | |
|-----------------------------------|----|
| Acute Health Hazard | No |
| Chronic Health Hazard | No |
| Fire Hazard | No |
| Sudden Release of Pressure Hazard | No |
| Reactive Hazard | No |

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

| Chemical Name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|---------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Mercury | | X | X | |

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following substances which are listed hazardous air pollutants (HAPs) under Section 112 of the Clean Air Act:

| Chemical Name | CAS-No | Weight % | HAPS data | VOC Chemicals | Class 1 Ozone Depleters | Class 2 Ozone Depleters |
|---------------|-----------|----------|-----------|---------------|-------------------------|-------------------------|
| Mercury | 7439-97-6 | < 0.1 | | | | |

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

| Chemical Name | Hazardous Substances RQs | Extremely Hazardous Substances RQs |
|---------------|--------------------------|------------------------------------|
| Mercury | 1 lb | |

U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

| Chemical Name | CAS-No | California Prop. 65 |
|---------------|-----------|---------------------|
| Mercury | 7439-97-6 | Developmental |

U.S. State Right-to-Know Regulations

| Chemical Name | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|---------------|---------------|------------|--------------|----------|--------------|
| Mercury | X | X | X | X | X |

International Regulations

Mexico - Grade No information available.

| Chemical Name | Carcinogen Status | Exposure Limits |
|---------------|-------------------|------------------------------------|
| Mercury | | Mexico: TWA 0.05 mg/m ³ |

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

D2A Very toxic materials

| Chemical Name | NPRI |
|---------------|------|
| Mercury | X |

16. OTHER INFORMATION

| | |
|----------------------|--|
| Prepared By | Product Stewardship 23 British American Blvd. Latham, NY 12110 1-800-572-6501 |
| Issuing Date | 29-May-2013 |
| Revision Date | 13-Jun-2013 |
| Revision Note | No information available |

General Disclaimer

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

End of Safety Data Sheet