SAFETY DATA SHEET

Uninsulated Air Connector and Dryer Vent Connector

Section 1. Identification

GHS product identifier : Uninsulated Air Connector and Dryer Vent Connector

Product code : Not available.

Other means of identification : HVAC connectors

Product code : Not available.

Product type : Solid.

Identified uses

HVAC air connectors.

Supplier's details : QuietFlex Manufacturing Company L.P.
4518 Brittmoore Rd.
Houston, Texas 77041
Tel : (713) 849-2163
Toll Free : 1-877-694-3669
Fax : (713) 849-0753
Web site: http://www.quietflex.com

Emergency telephone number (with hours of operation) : CANUTEC: +1-613-996-6666 or *666 (cellular)
CHEMTREC, U.S. : 1-800-424-9300 International: +1-703-527-3887
24/7

Section 2. Hazards identification

OSHA/HCS status : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture : Not classified.

GHS label elements

Signal word : No signal word.

Hazard statements : No known significant effects or critical hazards.

Precautionary statements

Prevention : Not applicable.

Response : Not applicable.

Storage : Not applicable.

Disposal : Not applicable.

Hazards not otherwise classified (HNOC) : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Other means of identification : HVAC connectors

CAS number/other identifiers

Ingredient name	CAS number	%
Antimony trioxide	1309-64-4	0.025 - 0.1

Antimony trioxide is an ingredient found in the adhesive used to CONSTRUCT the outer jacket of our Flexible Duct products. Antimony trioxide and other glue chemicals are APPLIED between TWO IMPERVIOUS PET films during the curing process. The final product is the outer jacket, a solid, which will not cause exposure to Antimony Trioxide. The adhesive ENCAPSULATED BETWEEN THE FILMS BECOMES A CURED SOLID AND PROVIDES NO PATH FOR OCCUPATIONAL EXPOSURE TO ANTIMONY TRIOXIDE.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Inhalation : These products are a solid and are not likely to be hazardous by inhalation. However, if exposed to fumes from overheating or combustion, remove to fresh air.

Skin contact : Flush contaminated skin with plenty of water. Get medical attention if symptoms occur.

Ingestion : Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested.

Specific treatments : No specific treatment.

Protection of first-aiders : No special protection is required.

Section 4. First aid measures

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use dry chemical, CO_2, water spray (fog) or foam.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : These products may be combusted by remaining in contact with flame. If flame source is stationary these products will shrink away and self-extinguish. If these products remain in contact with a flame they may continue to burn slowly, dropping flaming liquid which may spread the fire.

Hazardous thermal decomposition products : Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides, organic acids, aldehydes and alcohols.

Special protective actions for fire-fighters : No special measures are required.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Pick up large pieces and dispose as listed in Section 13 of this SDS.

Methods and materials for containment and cleaning up

Spill : Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

Storage : Storage should be in accordance with packaging directions, if any. Material should be stored in a dry place and kept in its original packaging until use.

Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities : Store away from heat and sources of ignition. Do not store in direct sunlight. Recommended storage temperatures are -6°C (20°F) to 37.8°C (100°F).

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits : The Occupational Safety and Health Administration (OSHA) have not adopted specific exposure standards for fiber glass. Fiber glass is treated as a nuisance dust and is regulated by OSHA as a particulate not otherwise regulated (total dust) shown in CFR 1910.1000 Table Z-3.

Ingredient name	Exposure limits
Antimony trioxide	**ACGIH TLV (United States, 3/2015).** TWA: 0.5 mg/m³, (as Sb) 8 hours. **OSHA PEL (United States, 2/2013).** TWA: 0.5 mg/m³, (as Sb) 8 hours. **NIOSH REL (United States, 10/2013).** TWA: 0.5 mg/m³, (as Sb) 10 hours. **OSHA PEL 1989 (United States, 3/1989).** TWA: 0.5 mg/m³, (as Sb) 8 hours.

Antimony trioxide is an ingredient found in the adhesive used to CONSTRUCT the outer jacket of our Flexible Duct products. Antimony trioxide and other glue chemicals are APPLIED between TWO IMPERVIOUS PET films during the curing process. The final product is the outer jacket, a solid, which will not cause exposure to Antimony Trioxide. The adhesive ENCAPSULATED BETWEEN THE FILMS BECOMES A CURED SOLID AND PROVIDES NO PATH FOR OCCUPATIONAL EXPOSURE TO ANTIMONY TRIOXIDE.

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne dust.

Environmental exposure controls : Pick up solid pieces and dispose of as listed in Section 13.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling product, before eating, smoking and using the lavatory and at the end of the working period.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection : Cotton or leather gloves should be worn to protect against mechanical abrasion. Use caution when handling the inner Core as the taped ends may come loose during handling exposing the wire used to construct the inner Core.

Body protection : No special protective clothing is required.

Other skin protection : Clothing should be washed separately from other cloths, and the washer should be rinsed thoroughly (run empty for a wash cycle). This will help reduce the chances of fiber glass being transferred to other clothing.

Respiratory protection : Not required under normal conditions of use.

Section 9. Physical and chemical properties

Appearance

Physical state : Solid. [Flexible HVAC Connector.]

Color : Silver.

Odor : None.

Odor threshold : Not available.

pH : Not applicable.

Melting point : Not available.

Boiling point : Not applicable.

Flash point : Not applicable.

Evaporation rate : Not applicable.

Flammability (solid, gas) : Non-flammable.

Lower and upper explosive (flammable) limits : Not available.

Vapor pressure : Not applicable.

Vapor density : Not applicable.

Relative density : Not applicable.

Solubility : Negligible in water.

Partition coefficient: n-octanol/water : Not available.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Not applicable.

Volatility : Not available.

VOC (w/w) : 0 % (w/w)

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable under normal conditions.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : Avoid exposure - obtain special instructions before use.

Incompatible materials : Reactive or incompatible with the following materials: oxidizing materials, acids and alkalis.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

There is no data available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Antimony trioxide	Eyes - Mild irritant	Rabbit	-	100 mg	-

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Dust from this product is a mechanical irritant; which means that it may cause irritation or scratchiness of the throat and/or itching and redness of the eyes and skin.

Sensitization

There is no data available.

Carcinogenicity

Classification

Product/ingredient name	OSHA	IARC	NTP	ACGIH	EPA	NIOSH
Aluminum	-	-	-	A4	-	-
Antimony trioxide	-	2B	-	A2	-	-

Specific target organ toxicity (single exposure)

There is no data available.

Specific target organ toxicity (repeated exposure)

There is no data available.

Aspiration hazard

There is no data available.

Information on the likely routes of exposure : Dermal contact. Eye contact.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : No known significant effects or critical hazards.

Section 11. Toxicological information

Potential delayed effects : No known significant effects or critical hazards.

Long term exposure

Potential immediate effects : No known significant effects or critical hazards.

Potential delayed effects : No known significant effects or critical hazards.

Potential chronic health effects

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

There is no data available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Antimony trioxide	Acute EC50 730 µg/L Fresh water Acute EC50 740 µg/L Fresh water Acute EC50 560 mg/L Fresh water Acute EC50 423450 to 496000 µg/L Fresh water Acute LC50 >530 mg/L Fresh water Chronic NOEC 200 µg/L Fresh water	Algae - Pseudokirchneriella subcapitata Algae - Pseudokirchneriella subcapitata Crustaceans - Cypris subglobosa Daphnia - Daphnia magna Fish - Lepomis macrochirus - Young of the year Algae - Pseudokirchneriella subcapitata	72 hours 96 hours 48 hours 48 hours 96 hours 96 hours

Antimony trioxide is an ingredient found in the adhesive used to CONSTRUCT the outer jacket of our Flexible Duct products. Antimony trioxide and other glue chemicals are APPLIED between TWO IMPERVIOUS PET films during the curing process. The final product is the outer jacket, a solid, which will not cause exposure to Antimony Trioxide. The adhesive ENCAPSULATED BETWEEN THE FILMS BECOMES A CURED SOLID AND PROVIDES NO PATH FOR OCCUPATIONAL EXPOSURE TO ANTIMONY TRIOXIDE.

Persistence and degradability

There is no data available.

Bioaccumulative potential

There is no data available.

Mobility in soil

Soil/water partition coefficient (K_{OC}) : There is no data available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : This product is not expected to be a hazardous waste when it is disposed of according to the U.S. Environmental Protection Agency (EPA). Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Section 14. Transport information

	DOT	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	-	-	-

AERG : Not applicable.

Special precautions for user : These products are not classified as dangerous goods according to international transport regulations.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not available.

Section 15. Regulatory information

U.S. Federal regulations :

TSCA 8(a) PAIR: N,N'-ethylenebis(3,4,5,6-tetrabromophthalimide)

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): All components are listed or exempted.

Clean Water Act (CWA) 307: Antimony trioxide; Zinc distearate

Clean Water Act (CWA) 311: Antimony trioxide

Antimony trioxide and N,N'-ethylenebis(3,4,5,6-tetrabromophthalimide) are ingredients found in the adhesive used to CONSTRUCT the outer jacket of our Flexible Duct products. Antimony trioxide and other glue chemicals are APPLIED between TWO IMPERVIOUS PET films during the curing process. The final product is the outer jacket, a solid, which will not cause occupational exposure or environmental release of these chemicals into the environment under normal conditions of use.

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Section 15. Regulatory information

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Not applicable.

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Antimony trioxide	0.025 - 0.1	No.	No.	No.	Yes.	Yes.

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	Aluminum Antimony trioxide	7429-90-5 1309-64-4	1 - 5 0.025 - 0.1
Supplier notification	Aluminum Antimony trioxide	7429-90-5 1309-64-4	1 - 5 0.025 - 0.1

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts : The following components are listed: Aluminum

New York : The following components are listed: Antimony trioxide

New Jersey : The following components are listed: Antimony trioxide; Aluminum

Pennsylvania : The following components are listed: Antimony trioxide; Aluminum

California Prop. 65

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

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Antimony trioxide Crystalline silica, quartz	Yes. Yes.	No. No.	No. No.	No. No.

Section 16. Other information

History

Date of issue mm/dd/yyyy : 07/15/2015

Version : 1

Prepared by : KMK Regulatory Services Inc.

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

Notice to reader

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.