BTV40

MATERIAL SAFETY DATA SHEET Product: Vincon® C-219-A

Manufacturers Name: Saint-Gobain
Performance Plastics

Address:

2664 Gilchrist Rd. Akron, Ohio 44305 Emergency Telephone Number:

Call ChemTel:

1-800-255-3924 USA

1-813-248-0585 International

Date Prepared: 9/26/06

SECTION 1 - IDENTITY

1.1 Common Name (used on label): Vincon® C-219-A

1.2 Chemical Name..... N/A

considered a trade secret.

In reference to 40CFR, Section 313, part 372, community right to know, we classify Vincon® Tubing as an "Article" and therefore not subject to notification requirements.

SECTION 2 - HAZARDOUS INGREDIENTS

2.1 Principal Hazardous Component(s) (Chemical & Common Names) Threshold Limit Value

a. Di-2-Ethylhexyl Phthalate (DOP or DEHP)

5mg/m³

2.2 Principal Non-Hazardous Component(s) (Chemical & Common Names) Limit Value

Threshold

All additives are physically bound in the manufacturing process and are not expected to create any hazard when the product is used in accordance with normal manufacturing and industrial hygiene practice and by following the guidelines on this sheet.

SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS (Fire & Explosion Data)

3.1 Boiling Point:	N/A
3.2 Specific Gravity (H2O=1):	1.21
3.3 Vapor Pressure:	7 X 10 ⁻⁸ mm Hg, 20°C
3.4 Percent Volatile by Volume:	N/A
3.5 Vapor Density (Air=1):	N/A
3.6 Evaporation Rate:	N/A
3.7 Solubility in Water:	Negligible
3.8 Melting Point:	N/A
3.9 Appearance and Odor:	Clear tubing; Slight odor.
3.10 Flash Point:	
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N/E = Not Established, N/A = Not Applicable, N/R = Not Required, N/D = Not Determined

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3.11 Flammable Limits in Air by

Volume...... Lower: N/A Upper: N/A

3.12 Auto-Ignition Temperature..: N/A

3.13 Extinguisher Media...... Water

3.14 Special Fire Fighting Procedures: Fire fighters should wear full protective

clothing including a self-contained breathing

apparatus.

3.15 Unusual Fire & Explosion

Hazards..... None Known

SECTION 4 - PHYSICAL HAZARDS

4.1 Stability...... Stable: X Unstable:

Conditions to Avoid...... Temperatures above 300°F will slowly

decompose

the tubing material resulting in the

liberation of HCl

gas.
4.2 Incompatibility.....: None known

4.3 Hazardous Decomposition

Products...... When forced to burn, PVC compounds will

mainly

contribute CO, CO₂, and HCl as gases.

4.4 Hazardous Polymerization...: May Occur: Will Not Occur: X

Conditions to Avoid...... None Known

SECTION 5 - HEALTH HAZARDS

5.1 Threshold Limit Value...... N/E

5.2 Sign & Symptoms of Exposure:

1. Acute Overexposure....: Toxicological testing has not been conducted

with this material.

Route of Entry:

Eye Contact: See inhalation Skin Contact: See inhalation

Inhalation:. At temperatures above 300°F,

fumes may be emitted

that are

irritating to respiratory

tract, eyes,

or skin of sensitive

people.

Ingestion:. N/A

2. Chronic Overexposure..: None Known

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5.3 Medical Conditions Generally

Aggravated by Exposure...: There are no data available which address

medical conditions which are generally

recognized as being aggravated by exposure to

this product.

5.4 Chemical Listed as Carcinogen or

Potential Carcinogen.....:

National Toxicology Program:

Yes:

No:

I.A.R.C. Monographs:

Yes:

No:

OSHA:

Yes: Suspected

No:

CALIF. PROP. 65: Yes: DEHP

5.5 OSHA Permissible Exposure

Limit....:

5 mg/m³ TWA

5.6 ACGIH Threshold Limit Value:

5 mg/m³ TWA, 10 mg/m³ STEL Unknown

5.7 Other Exposure Limit Used...:

5.8 Emergency & First-Aid

Procedures....:

Inhalation: If irritation occurs, remove

affected

individual from area, refer to

N/R

physician.

Eyes:.

N/A

Skin:

N/A

Ingestion: N/A

SECTION 6 - SPECIAL PROTECTION INFORMATION

6.1 Respiratory Protection.....: N/R

6.2 Ventilation....: Local Exhaust:

Mechanical-General: N/R

Mechanical-Special:

N/R N/R

Mechanical-Other:

6.3 Protective Gloves..... N/R N/R

6.4 Eve Protection....: 6.5 Other Protective Clothing

or Equipment.....: Not Necessary

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SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK **PROCEDURES**

7.1 Precautions to be taken in

Handling & Storage....:

Store cool and dry.

N/A

7.2 Other Precautions....: 7.3 Steps to be Taken in Case Material

is Released or Spilled.....:

N/A

7.4 Waste Disposal Methods.....:

According to Local, State and Federal

Regulations.

SECTION 8 - OTHER INFORMATION

8.1 Transportation Information...:

DOT Shipping Name: N/A DOT Hazard Class: N/A DOT Label(s): N/A UN/NA Number: N/A Placards: None

IATA: N/A

IMO IMDG-Code: N/A European Class: RID (OCTI): N/A ADR (ECE): N/A

RAR (IATA): N/A

8.2 The information and recommendations set forth herein are taken from sources believed to be accurate as of the date hereof, however, Saint-Gobain Performance Plastics Corporation makes no warranty with respect to the accuracy of the information or the

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suitability of the recommendations, and assumes no liability to any user thereof.

FLEXIBLE PVC TUBING FORMULATION C-219-D2

TECHNICAL DATA

TYPICAL PHYSICAL PROPERTIES

Property	ASTM Method	Value or Rating
Durometer Hardness (Shore A), 15s	D2240-02	67
Tensile Strength, psi (MPa)	D412-98	2,450 (16.9)
Ultimate Elongation, %	D412-98	400
Tensile Stress @ 100% Elongation, psi (MPa)	D412-98	1000 (6.9)
Tear Resistance, lb-f/inch (kN/m)	D1004-94	180 (31.5)
Compression Set	D395-02	65
Constant Deflection, % @ 158°F (70°C) for 22 hours	Method B	
Brittle Temperature, °F (°C)	D746-98	-45 (-43)
Specific Gravity	D792-00	1.21
Water Absorption, % 24 hrs at 73°F (23°C)	D570-98	0.12
Maximum Recommended Operating Temperature °F (°C)		165 (74)
Color	_	Black

Unless otherwise noted, all tests were conducted at noom temperature (73°F). Values shown were determined on 0.075° thick extruded strip or 0.075° thick molded ASTM plaques or molded ASTM durometer buttons.

RELATIVE CHEMICAL RESISTANCE PROPERTIES*

conc.	Acids med.	1	conc.	Bases med.	weak	Salts	Alcohols	Ketones
F	E	E	E.	E	E	E	F	U
Alipha Hydrocai	1	Aromatic Hydrocarbon		ogenated rocarbons	Sunligh	t Aging	Oxygen	Ozone
Ü		U		Ü	F		E .	E E

E = Excellent F = Fair U = Unsatisfactory

^{*}All tests conducted at room temperature.

Product Characteristics:	
Opacity	Opaque
FDA Approved for Food Contact	Yes
Odor	None
Taste	None



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IMPORTANT: It is the user's responsibility to ensure the suitability and makey of Salat-Cobain Proformance Flexibles tooking for all intended uses. Unhambery and distinal took must be consumed in exceedance with applicable regulatory requirements offer to determine the Asiaty and effectiveness for use of Juhing in any particular application.

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