Safety Data Sheet

Ultra Performance Caulk

SECTION 1: IDENTIFICATION

Product: Ultra Performance Caulk
Product Use: Coloured caulk used for tile joint applications
Manufacturer Information:

Ontario
111 Royal Group Cr.
Vaughan, ON.
L4H 1X9
Tel: (416) 255-1111
Fax: (416) 255-1729

British Columbia
2829 Lake City Way
Burnaby, BC
V5A 2Z6
Tel: (644) 420-4914
Fax: (604) 420-0936

IN CASE OF EMERGENCY CALL CANUTEC (613) 996-6666

SECTION 2: HAZARDS IDENTIFICATION

Classification of the chemical
No specific hazards are encountered under normal product use.

GHS Signal Word Danger
GHS Classification:
Not classified under any GHS hazard classes
GHS Precautions
Not applicable

ADDITIONAL INFORMATION
Hazards not otherwise classified identified during the classification process:
None

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Name	% By Weight	CAS No.	Classification
Carbonic acid, calcium salt (1:1)	TS	471-34-1	
Titanium dioxide	TS	13463-67-7	
Chloroform	TS	67-66-3	
Acrylonitrile	TS	107-13-1	
Methylisobutyl ketone	TS	108-10-1	
Phenyl glycidyl ether	TS	122-60-1	
Ethyl acrylate	TS	140-88-5	
Epichlorohydrin	TS	106-89-8	
Methyl alcohol	TS	67-56-1	

SECTION 4: FIRST AID MESURES

General In case of accident or unwellness, seek medical attention immediately.
Eye Contact Flush eyes and contaminated skin with abundant water. Seek medical attention immediately.
Skin Contact Remove contaminated clothing immediately. Wash skin immediately with soap and abundant water.
If Ingested Do not induce vomiting. Drink plenty of water or milk to dilute. Do not give anything by mouth to an unconscious person. Seek medical attention immediately.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing Media	Water spray, carbon dioxide, dry chemical or foam
Unsuitable Extinguishing Media	None in particular
Hazardous Combustion Products	Do not inhale explosion and combustion gases
Explosive Properties	N/A
Oxidizing Properties	N/A
Special Firefighting Procedures	Wear standard fire fighting gear with self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Special Protection Wear personal protective equipment.
Protective Equipment Refer to Section 8 on this Safety Data Sheet for appropriate personal protection equipment.
Spill Clean Up Directions Pick up solids. Mop up or absorb with an inert material. Scrape up and dispose into a disposal container. Suitable material for absorbing material, sand.
Waste Disposal Dispose of in accordance with local, state and federal regulations.
Environmental Precautions Do not allow product to enter drains or waterways. Do not allow material to contaminate ground water system. Refer to Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

Wear personal protective equipment. Avoid contact with skin and eyes, inhalation of vapours and mists.
Contaminated clothing should be changed before entering eating areas. Do not eat or drink in work areas.
Do not use any empty containers before they are cleaned.
Protective equipment Refer to Section 8 on this Safety Data Sheet for appropriate personal protection equipment.

Keep containers tightly closed when not in use. Wash thoroughly after handling.
Storage Store in a cool, adequately ventilated, dry area, avoid freezing.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE LIMITS

Chemical Name	CAS No.	ACGIH TLV	OSHA PEL	NIOSH
Carbonic acid, calcium salt (1:1)	471-34-1			10 mg/m^3 TWA (total dust) 5 mg/m^3 TWA (respirable dust)
Titanium dioxide	13463-67-7	10 mg/m^3 TWA	10 mg/m^3 TWA (total dust)	
Methylisobutyl ketone	108-10-1	50 ppm TWA 75 ppm STEL	50 ppm TWA 205mg/m^3 TWA 75 ppm STEL, 300 mg/m^3 STEL	50 ppm TWA 205mg/m^3 TWA 75 ppm STEL, 300 mg/m^3 STEL
Phenyl glycidyl ether	122-60-1	0.1 ppm TWA	1 ppm TWA 6 mg/m^3 TWA	1 ppm ceiling (15 min) 6 mg /m^3 ceiling (15 min)
Epichlorohydrin	106-89-8	0.5 ppm TWA	2 ppm TWA, 8 mg/m^3 TWA	
Ethyl acrylate	140-88-5	5 ppm TWA 15 ppm STEL	5 ppm TWA, 20 mg/m^3 TWA 25 ppm STEL, 100 mg/m^3 STEL	
Acrylonitrile	107-13-1	2 ppm TWA	1 ppm Action level 2 ppm TWA 10 ppm Excursion Limit	1 ppm TWA 10 ppm ceiling
Methyl Alcohol	67-56-1	200 ppm TWA 250 ppm STEL	200 ppm TWA 260 mg/m^3 TWA 250 ppm STEL 325 mg/m^3 STEL	200 ppm TWA 260 mg/m^3 TWA 250 ppm STEL 325 mg/m^3 STEL
Chloroform	67-66-3	10 ppm TWA	2 ppm TWA 9.78 mg/m^3 TWA	2 ppm STEL (60 min) 9.78 mg/m^3 STEL (60 min)

ENGINEERING CONTROL METHODS:

Eye Protection Wear safety glasses with side shields

Skin Protection Avoid skin contact by wearing proper work gloves and long sleeved shirt.
Hand Protection Use protective gloves that provide comprehensive protection, e.g. P.V.C., neoprene or rubber.
Respiratory Protection Under conditions of frequent use or heavy exposure, respiratory protection may be needed. Respiratory protection is ranked in order from minimum to maximum. Consider warning properties before use. Any supplied- air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode. Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Various colours
Odour and appearance	None, paste
Odour threshold	N/A
Specific gravity	1 – 1.6 at 20°
Vapour pressure	N/A
Vapour density (air=1)	N/A
Evaporation rate	N/A
Boiling point	N/A
Freezing point	N/D
pH	N/D
Flash point	>200˚C (392°F)
Upper/Lower flammability or explosive limits	N/A
Auto-ignition temperature	N/A
Decomposition temperature	N/A
Explosive properties	N/A
Oxidizing properties	N/A
Solubility in water	Negligible
Solubility in oil	N/D
Octanol/Water coefficient	N/D
Calculated VOC content	N/A

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Will not occur
Chemical stability	Avoid heat, flames, sparks, and other sources of ignition. Avoid incompatible materials
Incompatible materials	oxidizing materials, acids, amines, strong caustics, water
Conditions to avoid	Stable under normal conditions
Hazardous decomposition products	Thermal decomposition products: oxides of carbon, oxides of nitrogen, aldehydes, various polymer compounds

SECTION 11: TOXICOLOGICAL INFORMATION

A: General Product Information

INHALATION:
Acute exposure: May cause irritation to the mucous membranes and upper respiratory tract. Symptoms may include coughing, and sneezing. May cause central nervous system effects with headache, dizziness, drowsiness, and loss of coordination.

SKIN CONTACT:
Acute exposure: Skin contact may cause sensitization and allergic reaction in sensitive individuals. Symptoms can include itching, welts and redness. Prolonged contact with the skin may cause dermatitis, with symptoms of inflammation and reddening of the skin. The Diisodecyl Phthalate component can be absorbed via intact skin and may cause central nervous system depression if a large area of the skin is involved.

EYE CONTACT:
Acute exposure: Contact with the eyes may cause mild irritation, pain, reddening, and watering

INGESTION:
Acute exposure: Ingestion is not anticipated to be a likely route of exposure to this product. If large quantities of this product are swallowed, irritation of the mouth, throat, esophagus, and other tissues of the digestive system may occur. Symptoms may include stomach pains and vomiting.

B: Component Analysis - LD50/LC50

Carbonic acid, calcium salt (1:1) (471-34-1)

Oral LD50 Rat: 6450 mg/kg

Titanium dioxide (13463-67-7)
Oral LD50 Rat: >10000 mg/kg

Methylisobutyl ketone (108-10-1)
Inhalation LC50 Rat: 8.2 mg/L/4H; Oral LD50 Rat:2080 mg/kg; Dermal LD50 Rabbit:>16000 mg/kg

Phenyl glycidyl ether (122-60-1)
Inhalation LC50 Mouse: >100 ppm/4H; Oral LD50 Rat:3850 mg/kg; Dermal LD50 Rabbit:1500 µL/kg

Epichlorohydrin (106-89-8)
Oral LD50 Rat: 90 mg/kg; Dermal LD50 Rabbit:515 mg/kg; Inhalation LC50 Rat:500 ppm/4H

Ethyl acrylate (140-88-5)
Inhalation LC50 Rat: 1414 ppm/4H; Oral LD50 Rat:800 mg/kg; Dermal LD50 Rabbit:500 µL/kg

Acrylonitrile (107-13-1)
Inhalation LC50 Rat: 333 ppm/4H; Oral LD50 Rat:78 mg/kg; Dermal LD50 Rat:148 mg/kg; Dermal LD50 Rabbit:250 mg/kg

Methyl alcohol (67-56-1)
Inhalation LC50 Rat: 83.2 mg/L/4H; Inhalation LC50 Rat:64000 ppm/4H; Oral LD50 Rat:5628 mg/kg; Dermal LD50 Rabbit:15800 mg/kg

Chloroform (67-66-3)
Inhalation LC50 Rat: 47702 mg/kg/4H; Oral LD50 Rat:695 mg/kg; Dermal LD50 Rabbit:>3980 mg/kg

Carcinogenicity
A: General Product Information

No information available for the product.

B: Component Carcinogenicity

Titanium dioxide (13463-67-7)
ACGIH: A4 - Not Classifiable as a Human Carcinogen
NIOSH: potential occupational carcinogen
IARC: Monograph 93 [in preparation], Monograph 47 [1989] (Group 2B (possibly carcinogenic to humans))

Phenyl glycidyl ether (122-60-1)
ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
NIOSH: potential occupational carcinogen
IARC: Monograph 71 [1999], Monograph 47 [1989] (Group 2B (possibly carcinogenic to humans))

Epichlorohydrin (106-89-8)
ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
NIOSH: potential occupational carcinogen
NTP: Reasonably Anticipated To Be A Human Carcinogen (Possible Select Carcinogen)
IARC: Monograph 71 [1999], Supplement 7 [1987], Monograph 11 [1976] (overall evaluation upgraded from 2B to 2A with supporting evidence from other relevant data) (Group 2A (probably carcinogenic to humans))

Ethyl acrylate (140-88-5)
ACGIH: A4 - Not Classifiable as a Human Carcinogen
NIOSH: potential occupational carcinogen
IARC: Monograph 71 [1999], Supplement 7 [1987], Monograph 39 [1986] (Group 2B (possibly carcinogenic to humans))

Acrylonitrile (107-13-1)

ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
OSHA: 1 ppm Action Level; 2 ppm TWA; 10 ppm Excursion Limit (15 min, Skin and eye exposure prohibited. Cancer hazard - see 29 CFR 1910.1045)
NIOSH: potential occupational carcinogen
NTP: Reasonably Anticipated To Be A Human Carcinogen (Possible Select Carcinogen)
IARC: Monograph 71 [1999], Supplement 7 [1987] (Group 2B (possibly carcinogenic to humans))

Chloroform (67-66-3)

ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
NIOSH: potential occupational carcinogen
NTP: Reasonably Anticipated To Be A Human Carcinogen (Possible Select Carcinogen)
IARC: Monograph 73 [1999] (Group 2B (possibly carcinogenic to humans))

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

A: General Product Information

This product may be harmful to terrestrial and aquatic plant and animal life (especially if large quantities are released).

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Methylisobutyl ketone (108-10-1)

Test & Species		Conditions
96 Hr LC50 Pimephales promelas	496-514 mg/L [flow-through]	
96 Hr EC50 Selenastrum capricornutum	400 mg/L	
24 Hr EC50 water flea	4280.0 mg/L	
48 Hr EC50 Daphnia magna	170 mg/L	

Phenyl glycidyl ether (122-60-1)

Test & Species		Conditions
96 Hr LC50 Carassius auratus	43 mg/L [static]	

Epichlorohydrin (106-89-8)

Test & Species		Conditions
96 Hr LC50 Lepomis macrochirus	35 mg/L [static]	
96 Hr LC50 Lepomis macrochirus	35 mg/L [semi-static]	
96 Hr LC50 Brachydanio rerio	30.5 mg/L [static]	
96 Hr LC50 Pimephales promelas	9.1-12.3 mg/L [static]	
48 Hr EC50 Daphnia magna	24 mg/L	

Ethyl acrylate (140-88-5)

Test & Species		Conditions
96 Hr LC50 Pimephales promelas	2.31-2.7 mg/L [flow-through]	

96 Hr LC50 Leuciscus idus	10.0-22.0 mg/L [static]
96 Hr LC50 Oncorhynchus mykiss	4.6 mg/L
72 Hr EC50 Scenedesmus subspicatus	48 mg/L
48 Hr EC50 Daphnia magna	7.9 mg/L

Acrylonitrile (107-13-1)

Test & Species	Conditions
96 Hr LC50 Pimephales promelas	6.7-15 mg/L [flow-through]
96 Hr LC50 Lepomis macrochirus	8.0-12.0 mg/L [static]
96 Hr LC50 Poecilia reticulata	33.5 mg/L [static]
96 Hr LC50 Brachydanio rerio	25 mg/L [flow-through]
96 Hr LC50 Oncorhynchus mykiss	24 mg/L
96 Hr LC50 Cyprinus carpio	18.07 mg/L [semi-static]
96 Hr LC50 Lepomis macrochirus	8.7-10 mg/L [flow-through]
96 Hr LC50 Pimephales promelas	28-39 mg/L [static]
48 Hr EC50 water flea	7.60 mg/L

Methyl alcohol (67-56-1)

Test & Species	Conditions
96 Hr LC50 Pimephales promelas	28200 mg/L [flow-through]
96 Hr LC50 Pimephales promelas	>100 mg/L [static]
96 Hr LC50 Oncorhynchus mykiss	19500-20700 mg/L [flow-through]
96 Hr LC50 Oncorhynchus mykiss	18-20 ml/L [static]
96 Hr LC50 Lepomis macrochirus	13500-17600 mg/L [flow-through]

Chloroform (67-66-3)

Test & Species	Conditions
96 Hr LC50 Pimephales promelas	71 mg/L [flow-through]
96 Hr LC50 Oncorhynchus mykiss	18 mg/L [flow-through]
96 Hr LC50 Lepomis macrochirus	18 mg/L [flow-through]
96 Hr LC50 Poecilia reticulata	300 mg/L [static]
48 Hr EC50 Scenedesmus subspicatus	560 mg/L
48 Hr EC50 water flea	28.9 mg/L [Static]

SECTION 13: DISPOSAL CONSIDERATIONS

Component Waste Numbers

Methylisobutyl ketone (108-10-1)
RCRA: waste number U161 (Ignitable waste)

Epichlorohydrin (106-89-8)
RCRA: waste number U041

Ethyl acrylate (140-88-5)
RCRA: waste number U113 (Ignitable waste)

Acrylonitrile (107-13-1)
RCRA: waste number U009

Methyl alcohol (67-56-1)
RCRA: waste number U154 (Ignitable waste)

Chloroform (67-66-3)
RCRA: waste number U044
6.0 mg/L regulatory level

Disposal Instructions

All wastes must be handled in accordance with local, state and federal regulations.
See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

SECTION 14: TRANSPORT INFORMATION

Consult Bill of Lading for transportation information.
Canadian TDG : not regulated
US DOT: not regulated
IATA: not regulated

SECTION 15: REGULATORY INFORMATION

Canadian Information:
Canadian WHMIS Classification: This product is a WHMIS Controlled Product. It meets one or more of the criteria for a controlled product provided in Part IV of the Controlled Products Regulations (CPR). Refer to Section 2 for a WHMIS Classification for this product.
This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.
Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on either the Domestic Substances List (DSL) or the Non- Domestic Substances List (NDSL). It contains components listed on the Canadian HPA Ingredient Disclosure List. It contains Crystalline silica, quartz.

US Federal Regulations

Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

Methylisobutyl ketone (108-10-1)
CERCLA: 5000 lb final RQ; 2270 kg final RQ

Epichlorohydrin (106-89-8)
SARA 302: 1000 lb TPQ
SARA 313: 0.1 % de minimis concentration
CERCLA: 100 lb final RQ; 45.4 kg final RQ

Ethyl acrylate (140-88-5)
SARA 313: 0.1 % de minimis concentration
CERCLA: 1000 lb final RQ; 454 kg final RQ

Acrylonitrile (107-13-1)
SARA 302: 10000 lb TPQ
SARA 313: 0.1 % de minimis concentration
CERCLA: 100 lb final RQ; 45.4 kg final RQ

Methyl alcohol (67-56-1)
CERCLA: 5000 lb final RQ; 2270 kg final RQ

Chloroform (67-66-3)
SARA 302: 10000 lb TPQ
SARA 313: 0.1 % de minimis concentration
CERCLA: 10 lb final RQ; 4.54 kg final RQ

State Regulations

Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Titanium dioxide	13463-67-7	No	Yes	Yes	Yes	Yes	Yes
Methylisobutyl ketone	108-10-1	Yes	Yes	Yes	Yes	Yes	Yes
Phenyl glycidyl ether	122-60-1	Yes	Yes	Yes	Yes	Yes	Yes
Epichlorohydrin	106-89-8	Yes	Yes	Yes	Yes	Yes	Yes
Ethyl acrylate	140-88-5	Yes	Yes	Yes	Yes	Yes	Yes
Acrylonitrile	107-13-1	Yes	Yes	Yes	Yes	Yes	Yes
Methyl alcohol	67-56-1	Yes	Yes	Yes	Yes	Yes	Yes
Chloroform	67-66-3	Yes	Yes	Yes	Yes	Yes	Yes

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement

Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer.
WARNING! This product contains a chemical known to the state of California to cause reproductive/developmental effects.

Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Phenyl glycidyl ether	122-60-1	0.1 %
Epichlorohydrin	106-89-8	0.1 %
Acrylonitrile	107-13-1	0.1 %
Chloroform	67-66-3	0.1 %

Additional Regulatory

Information Component

Component	CAS #	TSCA	CAN	EEC
Carbonic acid, calcium salt (1:1)	471-34-1	Yes	DSL	EINECS
Titanium dioxide	13463-67-7	Yes	DSL	EINECS
Methylisobutyl ketone	108-10-1	Yes	DSL	EINECS
Phenyl glycidyl ether	122-60-1	Yes	DSL	EINECS
Epichlorohydrin	106-89-8	Yes	DSL	EINECS
Ethyl acrylate	140-88-5	Yes	DSL	EINECS
Acrylonitrile	107-13-1	Yes	DSL	EINECS
Methyl alcohol	67-56-1	Yes	DSL	EINECS
Chloroform	67-66-3	Yes	DSL	EINECS

SECTION 16: OTHER INFORMATION

This Safety Data Sheet is prepared to comply with the Canadian Workplace Hazardous Materials Information System (WHMIS) and the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200).
HMIS rating: **Health** -- 2 **Flammability** -- 1 **Reactivity** -- 0
See **SECTION 8**: **EXPOSURE CONTROLS/PERSONAL PROTECTION** for personal protective equipment recommendations.

PREPARATION DATE OF SAFETY DATA SHEET

Prepared by Technical department
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Date prepared 16th April 2018

Ultra Performance Caulk

Flextile Ltd. assumes no responsibility for injury to consumer or third persons caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, Flextile Ltd. assumes no responsibility for injury to consumer or third persons caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, consumer assumes the risk in use of the material.
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