SAFETY DATA SHEET

AUGUST 2020

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Product Name: Crack Filler

1.2 Relevant Identified uses of the substance or mixture and uses advised against

Identified uses: Adhesives

1.3 Details of the supplier of the safety data sheet

Company Name : C.R. Laurence Co., Inc.
2503 E. Vernon Avenue
Los Angeles, CA 90058-1897
(800) 421-6144

CRL Cat. No.'s: **CCH12 and CCH1**

Emergency telephone number CHEMTREC: 1-800-424-9300 (24/7)

Issue Date: 2020-08-07
Revision Date: 2020-08-06
Version: 5

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture Classification (Reg. 1272/2008)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1
Specific target organ toxicity (single exposure)	Category 3

Physical hazards: None
Target Organ Effects: Respiratory system, EYES, Skin

2.1 Classification according to EU Directives 67/548/EEC or 1999/45/EC

The substance/preparation is classified as dangerous in accordance with Directive(s) 67/548/EEC with amendments and/or 1999/45/EC with amendments

Symbol(s) : Xi - Irritant
Classification Labeling: Xi;R36/37/38- R43
Labeling: Contains 2-Hydroxyethyl methacrylate , Benzyl Methacrylate

2. HAZARDS IDENTIFICATION (CONT.)

2.2 Label elements

Signal word: **Danger**

Hazard Statements

H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H335 - May cause respiratory irritation

Precautionary Statements

P280 - Wear protective gloves/protective clothing/eye protection/face protection
P264 - Wash face, hands and any exposed skin thoroughly after handling
P272 - Contaminated work clothing should not be allowed out of the workplace
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rising
P310 - Immediately call a POISON CENTER or doctor/physician
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention
P321 - Specific treatment (see supplemental first aid instruction on this label)
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P271 - Use only outdoors or in a well-ventilated area
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P312 - Call a POISON CENTER or doctor if you feel unwell
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
P405 - Store locked up
P273 - Avoid release to the environment
P391 - Collect spillage
P501 - Dispose of contents/container to an approved waste dispose plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

The ingredients listed in this section have been determined to be hazardous and above threshold limits Hazardous

Chemical Name	EC-No	CAS No	Weight-%	Classification (67/548)	Classification (Reg.1272/2008)
Benzyl Methacrylate	219-674-4	2495-37-6	25-49	Xi; R36/37/38	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)
2-Hydroxyethyl methacrylate	212-782-2	868-77-9	15-24	Xi: R36/38 R43	Skin Irrit. 2 (H315) Eye Irrit. 2A (H319) Skin Sens. 1 (H317)
Isobornyl Acrylate	227-561-6	5888-33-5	15-24	Xi; R36/37/38 N;R51-53	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Aquatic Acute 2 (H401) Aquatic Chronic 2 (H411)
Octyl acrylate	219-696-4	2499-59-4	5-14	Xi:R36/37/38 N;R51-53	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Aquatic Chronic 2 (H411)
Decyl acrylate	218-462-9	2156-96-9	5-14	Xi:R36/37/38 N;R51-53	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Aquatic Chronic 2 (H411)
Acrylic acid	201-177-9	79-10-7	1-4	R10 Xn;R20/21/22 C;R35 N;R50	Flam. Liq. 3 (H226) Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Skin Corr. 1A (H314) STOT SE 3 H335) Aquatic Acute 1 (H400)
Gama-Glycidoxypropyl-trimethoxysilane	219-784-2	2530-83-8	1-4	Xi;R41	Eye Dam. 1 (H318)

Remaining ingredients are not considered hazardous in accordance with the Globally Harmonized System (GHS)

For the Full text of the R-phrases mentioned in this Section, see Section 16

4. FIRST AID MEASURES

4.1 Description of first-aid measures

General advice
IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.

Eye contact
Flush eyes with water for at least 15 minutes. Get medical attention if eye irritation develops or persists

Skin Contact
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes

Ingestion
Get medical attention

Inhalation
Remove to fresh air If symptoms persist, call a physician

Self-protection of the first aider
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves

4.2 Most important symptoms and effects, both acute and delayed

Main Symptoms
None

4.3 Indication of any immediate medical attention and special treatment needed

Note to physicians
Treat symptomatically

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use C02, dry chemical, or foam

Extinguishing media which shall not be used for safety reasons
Do not use a solid water stream as it may scatter and spread fire

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products
Hazardous decomposition products due to incomplete combustion

Specific hazards arising from the chemical
Carbon dioxide (C02), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke

5.3 Advice for firefighters

Special protective equipment for fire-fighters
Wear self-contained breathing apparatus and protective suit

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions. protective equipment and emergency procedures

Personal precautions

Ensure adequate ventilation, Wear protective gloves/clothing and eye/face protection.

6.2 Environmental precautions

Environmental precautions

Local authorities should be advised if significant spillages cannot be contained. Try to prevent the material from entering drains or water courses.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust)

Methods for Containment

Prevent further leakage or spillage if safe to do so

Other Information

See Section 12 for additional information

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling

Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation and protect from light

7.2 Conditions for safe storage. including any incompatibilities

Technical measures and storage conditions

Keep container tightly closed in a dry and well-ventilated place, Protect from light

7.3 Specific end uses

Exposure scenario

No information available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure Limits

Chemical Name	European Union	The United Kingdom	Denmark	France	Finland
Acrylic acid			TWA 2 ppm TWA 5.9 mg/m^3 H*	TWA 2 ppm TWA 6 mg/m^3 STEL 10 ppm STEL 30 mg/m^3	TWA 2 ppm TWA 6 mg/m^3 STEL 15 ppm STEL 45 mg/m^3

Chemical Name	Ireland	Norway	Poland	Portugal	Switzerland
Benzyl Methacrylate					S+
2-Hydroxyethyl methacrylate		TWA 2 ppm TWA 11 mg/m^3 A+ STEL 4 ppm STEL 16.5 mg/m^3			S+
Isobornyl Acrylate					S+
octyl acrylate					S+
decyl acrylate					S+
Acrylic acid	TWA 2 ppm TWA 6 mg/m^3 STEL 6 ppm STEL 18 mg/m^3	TWA 10 ppm TWA 30 mg/m^3 STEL 10 ppm STEL 30 mg/m^3	TWA 10 mg/m^3 STEL 29.5 mg/m^3	TWA 2 ppm C (A4) P*	SS-C** TWA 10 ppm TWA 30 mg/m^3 STEL 10 ppm STEL 30 mg/m^3

Chemical Name	Germany	The Netherlands	Austria	Italy	Spain
Acrylic acid	AGW 10 ppm AGW 30 mg/m^3				TWA 2 ppm TWA 6 mg/m^3 S*

Derived No Effect Level (DNEL)

No infonnation available

Predicted No Effect Concentration (PNEC)

No information available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (CONT.)

8.2 Exposure controls

Occupational Exposure Controls

Engineering Measures

Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Hygiene Measures

When using do not eat, drink or smoke, Wear suitable gloves and eye/face protection, Wash hands before breaks and at the end of workday, Wash hands with water as a precaution, Regular cleaning of equipment, work area and clothing is recommended, Avoid breathing vapors, mist or gas.

8.3 Personal protective equipment

General Information

Use personal protective equipment in good condition.

Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Eye Protection

Safety glasses with side-shields, If splashes are likely to occur, wear:, Goggles.

Skin and body protection

Long sleeved clothing, Apron, Impervious gloves.

Hand Protection

Nitrile rubber, Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

8.4 Environmental Exposure Controls

Do not allow material to contaminate ground water system.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9. 1 Information on basic physical and chemical properties

Physical state	liquid
Appearance	transparent
Color	colorless
Odor	Characteristic
Odor threshold	No information available

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (CONT.)

Property	Values	Remarks/-Method
pH		No information available
Melting point I freezing point		No information available
Boiling point I boiling range		No information available
Flash point	101°C / 214°F	
Evaporation rate		No information available
Flammability (solid, gas)		No information available
Flammability Limit in Air		No information available
Upper flammability limit		
Lower flammability limit		
Vapor pressure		No information available
Vapor density		No information available
Relative density		No information available
Specific Gravity		No information available
Water Solubility	Practically insoluble	
Solubility in other solvents		No information available
Partition coefficient: n-octanol/water		No information available
Autoignition temperature		No information available
Decomposition temperature		No information available
Dynamic viscosity		
Explosive properties		No information available
Oxidizing Properties		No information available

9.2 Other Information

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Density	No information available
Bulk Density	No information available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Reactivity
No dangerous reaction known under conditions of normal use

1 0.2 Chemical stability

Stability
Stable under normal conditions.

SECTION 10: STABILITY AND REACTIVITY (CONT.)

10.3 Possibility of Hazardous Reactions

Hazardous polymerization
None under normal processing

Hazardous Reactions
None under normal processing

10.4 Conditions to avoid

Conditions to avoid
Heat, flames and sparks, Protect from light.

10.5 Incompatible materials

Materials to Avoid
Amines, Oxygen scavengers, Strong oxidizing agents, Strong acids, Strong bases, Thiosulfates.

10.6 Hazardous Decomposition Products

Hazardous Decomposition Products
No decomposition if stored and applied as directed.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Product Information

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

Inhalation	There is no data for this product
Eye contact	There is no data for this product
Skin Contact	There is no data for this product
Ingestion	There is no data for this product

11.2 Delayed and Immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	No information available
Serious eye damage/eye irritation	No information available
Irritation	No information available
Corrosivity	No information available
Sensitization	May cause sensitization of susceptible persons
Mutagenic effects	No information available
Reproductive toxicity	No information available
Carcinogenic effects	Contains no ingredient listed as a carcinogen

SECTION 11: TOXICOLOGICAL INFORMATION (CONT.)

STOT - single exposure No information available
STOT - repeated exposure No information available
Target Organ Effects Respiratory system, EYES, Skin.
Aspiration hazard No information available
Symptoms No information available
Other adverse effects No information available
Chronic toxicity Repeated contact may cause allergic reactions in very susceptible persons
Avoid repeated exposure

11.3 Numerical measures of toxicity -Product Information

0% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmIx (oral) 5679 mg/kg
ATEmix (dermal) 7335 mg/kg
ATEmix (inhalation-vapor) 248.9 mg/L
ATEmix (inhalation-dust/mist) 33.6 mg/L

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2-Hydroxyethyl methacrylate	= 5050 mg/kg (Rat)	> 3000 mglkg (Rabbit)	
Isobornyl Acrylate	= 4890 mg/kg (Rat)	> 5 g/kg (Rabbit)	
octyl acrylate	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	
decyl acrylate	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	
Acrylic acid	= 193 mg/kg (Rat) = 33500 µg/kg (Rat)	= 280 µL/kg (Rabbit) = 295 mg/kg (Rabbit)	= 5300 mg/m^3 (Rat) 2 h
gama-Glycidoxypropyltrimethoxysilane	= 22600 µL/kg (Rat)	= 3970 µL/kg (Rabbit)	

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Ecotoxicity effects

Experiments with similar products indicate no serious harmful effects on aquatic organisms

0% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Acute aquatic toxicity

Product Information

Testing for acute and chronic aquatic effects determined no environmental classification is required.

SECTION 12: ECOLOGICAL INFORMATION (CONT.)

Component Information

Chemical Name	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates	Toxicity to algae
Benzyl Methacrylate	LD50 4.25 - 5.13 mg/L 96 h (Pimephales promelas)		
2-Hydroxyethyl methacrylate	LC50 = 227 mg/L 96 h (Pimephales promelas)	EC50 > 380 mg/L 48 h (Daphnia magna)	
Isobornyl Acrylate	LC50 = 1.8 mg/L 96 h (Danio rerio)	EC50 = 1.1 mg/L 48 h (Daphnia magna)	ErC 50= 2.7 mg/L 96 h (Pseudokirchneriella subcapitata)
Acrylic acid	LC50 = 222 mg/L 96 h (Brachydanio rerio)	EC50 = 95 mg/L 48 h	ECSO 0.04 mg/L 72 h (Desmodesmus subspicatus)

12.2 Persistence and degradability

No product level data available

12.3 Bioaccumulative potential

Component Information

Chemical Name	log Pow
2-Hydroxyethyl methacrylate	0.47
Isobornyl Acrylate	4.21
Acrylic acid	0.46

12.4 Mobility in soil

No product level data available

12.5 Results of PBT and vPvB assessment

No product level data available

12.6 Other adverse effects

None

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste from residues / unused products
Should not be released into the environment, Dispose of in accordance with the European Directives on waste and hazardous waste.

Contaminated packaging
Empty containers should be taken to an approved waste handling site for recycling or disposal

Other Information
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific Waste codes should be assigned by the user based on the application for which the product was used

SECTION 14: TRANSPORT INFORMATION

ADR/RID	Not regulated
IMDG/IMO	Not regulated
ICAO/IATA	Not regulated

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

WGK Classification

Water endangering class= 1 (self classification)

International Inventories

The components of this product are included on the following inventories or exempt from listing:

AICS	Not listed
DSL/NDSL	Complies
IECSC	Complies
EINECS/ELINCS	Complies
ENCS	Complies
KECL	Complies
PICCS	Not listed
NZIoC	Not listed
ECSI	Not listed
TSCA	Complies

Legend

AICS -Australian Inventory of Chemical Substances
DSL/NDSL- Canadian Domestic Substances List/Non-Domestic Substances List
IECSC - China Inventory of Existing Chemical Substances
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
NZIoC - New Zealand Inventory of Chemicals
PICCS - Philippines Inventory of Chemicals and Chemical Substances
ECSI -Taiwan Existing Substance Inventory
TSCA- United States Toxic Substances Control Act Section 8(b) Inventory

SECTION 15: REGULATORY INFORMATION (CONT.)

15.2 Chemical Safety Assessment

No information available

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

H335 - May cause respiratory irritation
H315 - Causes skin irritation
H319- Causes serious eye irritation
H411 -Toxic to aquatic life with long lasting effects
H318 - Causes serious eye damage
H401 -Toxic to aquatic life
H225 - Highly flammable liquid and vapor
H301 -Toxic if swallowed
H311 -Toxic in contact with skin
H331 -Toxic if inhaled
H370- Causes damage to organs (a,b,c) if inhaled
H226 - Flammable liquid and vapor
H302 - Harmful if swallowed
H312- Harmful in contact with skin
H332 - Harmful if inhaled
H314- Causes severe skin burns and eye damage
H400 -Very toxic to aquatic life
H317- May cause an allergic skin reaction

Full text of R-phrases referred to under sections 2 and 3

R43 - May cause sensitization by skin contact
R35 - Causes severe burns
R10- Flammable
R36- Irritating to eyes
R36/38 - Irritating to eyes and skin
R51/53 - Toxic to aquatic organisms, may cause long-tenn adverse effects in the aquatic environment
R36/37/38 - Irritating to eyes, respiratory system and skin
R20/21/22- Harmful by inhalation, in contact with skin and if swallowed
R50/53 -Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Revision Data 2020-08-07
Revision Note Not applicable.

This material safety data sheet complies with the requirements of Regulation (EC) No.1907/2006

Disclamier

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