

CRACK FILLER™ EP 550

1. Identification of the substance/mixture and of the company/undertaking

Product identifier: CRACK FILLER™ EP 550

Product code: CRACK FILLER™ EP 550

Relevant identified uses of the substance or mixture and uses advised against

Recommended use: Resin (part A), hardener (part B)

Restriction of use: For industrial use only

Details of the supplier of the safety data sheet

Company: Polymères Technologies Inc
6330 boulevard Laurier Ouest
Saint-Hyacinthe (Québec)
Canada, J2S 9A7
1 866-799-3058

24-hour Emergency Phone number (CANUTEC): 1 888 226-8832

2. Hazards identification

Classification of the substance or mixture

PART A

SKIN CORROSION/IRRITATION – Category 2

SERIOUS EYE DAMAGE/IRRITATION – Category 2A

SKIN SENSITIZATION – Category 1

PART B

ACUTE TOXICITY (dermal) – Category 4

SKIN CORROSION/IRRITATION – Category 1B

SERIOUS EYE DAMAGE/IRRITATION – Category 1

SKIN SENSITIZATION – Category 1

AQUATIC HAZARD (LONG-TERM) – Category 2

See toxicological information, section 11

Label elements

Labeling (REGULATION (EC) No 1272/2008)

PART A

Hazard pictograms



Signal word: WARNING

PART B

Hazard pictograms



Signal word: DANGER

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Hazard statement(s)

PART A

H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.

PART B

H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long-lasting effects.

Prevention statement(s)

PARTS A and B

P280	Wear protective gloves and clothing. Wear eye or face protection.
P273	Avoid release into the environment.
P261	Do not breathe vapors.
P264	Wash hands thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.

Response statement(s)

PART A

P301+P330+P331	IF SWALLOWED: Rinse mouth. DO NOT INDUCE VOMITING.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P310	IF EXPOSURE IS KNOWN OR SUSPECTED: Immediately call a POISON CENTER or doctor.
P333+P313	IF SKIN IRRITATION OR RASH OCCURS: Consult a physician.
P363	Wash contaminated clothing before reuse.
P391	Collect spilled product.
P302+P352+P362+P364	IF ON SKIN: Wash with plenty of soap and water. Remove contaminated clothing and wash before reuse.
P337+P313	IF EYE IRRITATION PERSISTS: Get medical attention.

PART B

P304+P340+P310	IF INHALED: Remove victim to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.
P301+P310+P330+P331	IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. DO NOT INDUCE VOMITING.
P303+P361+P353+P363+P310	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. Immediately call a

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POISON CENTER or doctor.

P302+P352+P312+P362+P364 IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor if victim feels unwell. Remove contaminated clothing and wash before reuse.

P333+P313 IF SKIN IRRITATION OR RASH OCCURS: Get medical attention.

P305+P351+P338+P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

Storage: Keep behind locked doors.

Disposal: Dispose of contents/container in accordance with local / regional / national / international regulations..

Other hazards: None known.

3. Composition / information on ingredient(s)

Ingredient name	% (p/p)	CAS number
PART (A)		
Epichlorohydrin & Bisphenol A Reaction Prod. -----	50 – 75	25085-99-8 25068-38-6
Oxirane 2,2'-[2,2-dimethyl-1,3-propanediyl]bis(oxymethylene)]bis- -----	5 – 10	17557-23-2
Sublimated amorphous silica -----	5 – 10	17557-23-2
Crystalline silica, quartz -----	1 – 5	14808-60-7
PART (B)		
4-tert-butylphenol -----	30 – 50	98-54-4
Cyclohexanemethanamine, 5-amino-1,3,3 trimethyl- -----	20 – 30	2855-13-2
2,2,4 (or 2,4,4)-trimethylhexane-1,6-diamine (TMD) -----	5 – 15	25513-64-8
Benzyl alcohol -----	5 – 10	100-53-6

The actual concentration range is withheld as a trade secret.

4. First-aid measures

Description of first-aid:

Eye contact: Get medical attention immediately. Call a poison control center or doctor. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for contact lenses and remove them. Continue flushing for at least 15 minutes. Chemical burns should be treated promptly by a physician.

Skin contact: Get medical attention immediately. Call a poison control center or doctor. Wash thoroughly with soap and water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue rinsing for at least 20 minutes.



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Chemical burns should be treated promptly by a physician. If complaints or symptoms occur, avoid further exposure. Wash clothing before reuse. Wash shoes thoroughly before reuse.

Inhalation: Get medical attention immediately. Call a poison control center or doctor. Remove victim to fresh air and keep comfortable for breathing. If fumes are suspected, rescuers should wear a suitable mask or self-contained breathing apparatus. If breathing is not occurring, breathing is irregular, or breathing has stopped, trained personnel should administer artificial respiration or oxygen. Mouth-to-mouth resuscitation may be dangerous to the rescuer. If the person is unconscious, place them in the recovery position and seek medical attention immediately.

Ensure good air circulation. Loosen tight clothing such as collars, ties, belts, or waistbands. If decomposition products are inhaled in a fire, symptoms may be delayed. The exposed person may require medical attention for 48 hours.

Ingestion: Get medical attention immediately. Call a poison control center or doctor. Wash with water. Remove dentures, if present.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material is swallowed and exposed person is conscious, give small amounts of water to drink. Stop if person feels sick as vomiting can be dangerous. Do not induce vomiting unless directed to do so by medical personnel.

If vomiting occurs, keep head low to prevent vomit from entering lungs. Chemical burns should be treated promptly by a physician. Do not give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical attention immediately.

Ensure good air circulation. Loosen anything that may be tight, such as collars, ties, belts or waistbands.

Most important symptoms and effects, whether acute or delayed:

Potential acute health effects

Eye contact: Causes serious damage.

Inhalation: No known important effect or critical hazard.

Skin contact: Causes severe burns. May cause an allergic skin reaction.

Ingestion: No known important effect or critical hazard.

Overexposure signs/symptoms

Eye contact: No known important effect or critical hazard.

Skin contact: Adverse symptoms may include pain or irritation, redness, and blistering.

Ingestion: Adverse symptoms may eventually include stomach pain.

Need for immediate medical attention or special treatment

Note to the attending physician: If decomposition products are inhaled in a fire, symptoms may be delayed. The exposed person may require medical supervision for 48 hours.

Particular treatment(s): None in particular.

Protection for rescuers: No action should be taken involving any personal risk or without suitable training. If fumes are suspected, the rescuer should wear a suitable mask or self-contained breathing apparatus. Mouth-to-mouth resuscitation may be dangerous to the person providing rescue. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

5. Firefighting measures

Extinguishing media: Dry chemical powders, CO₂, water spray (fog), foam.

Unsuitable extinguishing media: None known.

Special hazards arising from the substance or mixture: If this product is heated or comes into contact with fire, a pressure increase will occur, and the container may burst. This material is toxic to aquatic life with long-lasting effects. Fire extinguishing water that has been contaminated with this product must be kept closed and must not be discharged into any waterway, sewer or drain.

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Hazardous thermal decomposition products: Decomposition products may include carbon dioxide, carbon monoxide, nitrogen oxides and halogenated compounds.

Advice for firefighters: In the presence of fire, quickly contain the site by evacuating all persons near the scene of the accident. Do not take any action involving personal risk or without adequate training. It is imperative that firefighters wear adequate protective equipment as well as a self-contained breathing apparatus (SCBA) equipped with a positive pressure face mask.

6. Accidental release measures

Personal precautions, protective equipment, and emergency procedures:

For non-rescuers

No action shall be taken involving any personal risk or without suitable training. Evacuate the surrounding area. Prevent entry by unprotected or inconvenient persons. Do not touch or walk through spilled material. Avoid breathing vapors or mist. Ensure adequate ventilation. Wear suitable respiratory equipment when ventilation is inadequate. Wear appropriate personal protective equipment.

For first responders

If specialized clothing is required to deal with a spill, note any information given in Section 8 on suitable and unsuitable materials. Also refer to the information regarding non-emergency personnel (above).

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Notify the competent authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water pollutant. May be harmful to the environment if released in large quantities. Collect spilled product.

Methods and materials for containment and cleaning: Stop leak if without risk. Move containers from spill area. Approach fumes from upwind. Prevent entry into sewers, waterways, basements or confined areas. Dispose of spills in an effluent treatment plant or as follows: Contain leaks and collect with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth. Place in a container for disposal in accordance with local regulations (see Section 13). Dispose of through an authorized waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: See Section 1 for emergency information and see Section 13 for waste disposal.

Reference to other sections:

See Section 1 for emergency contacts.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for information on waste treatment methods.

7. Handling and storage

Protective measures: Wear appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization should not be involved in processes using this product. Avoid contact with eyes, skin, and clothing. Avoid breathing vapors or mist. Do not ingest. Avoid release to the environment. If during normal use the substance presents a respiratory hazard, adequate ventilation or respirator use is required. Keep in original container or an approved substitute container made of compatible material and kept tightly closed when not in use. Empty containers retain product residue and may be hazardous. Do not reuse this container.

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Advice on general workplace hygiene: Do not eat, drink or smoke in areas where this product is handled, stored or processed. Persons working with this product should wash their hands and face before eating, drinking or smoking. Also see Section 8 for additional information on hygiene measures.

Storage safety conditions including incompatibilities: Store in accordance with local regulations. Store in original container protected from sunlight in a dry, cool, well-ventilated place, away from incompatible materials (see Section 10), food and drink. Store locked up. Keep container tightly closed when not in use. Opened containers should be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use suitable container to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

8. Exposure controls / personal protection

Occupational exposure limits

Ingredient name	Exposure limits
PART (B) Benzyl alcohol	WEEL TWA: 10.0 ppm.

Appropriate engineering controls: If user operations produce dust, fumes, gases, vapors, or mist, use enclosures, local exhaust ventilation, or other automatic controls to maintain the operator's exposure to airborne contaminants below recommended or legal limits.

Control of the action of environmental agents: It is important to test emissions from ventilation systems and manufacturing equipment to ensure that they comply with the requirements of environmental protection legislation.

Mesures de protection individuelle

Hygiene measures: After handling chemicals, wash hands, forearms and face thoroughly before eating, smoking, using the toilet and when finished working. Use proper techniques to remove contaminated clothing. Contaminated clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Ensure eyewash stations and decontamination showers are provided near workstations.

Eyes: Safety eyewear complying with an approved standard should be worn where a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Where contact is possible, the following protection should be worn, unless an assessment indicates a need for additional protection (chemical goggles and/or face shield). Where respiratory risks exist, a full facepiece respirator is required.

Skin: When handling chemicals, chemical-resistant, impervious gloves complying with an approved standard should be worn at all times if a risk assessment indicates this is necessary. Taking into account the parameters given by the glove manufacturer, check that the gloves continue to maintain their protective properties during use. It should be noted that the breakthrough time for any material used in gloves may vary for different glove manufacturers. In the case of mixtures, consisting of several substances, the duration of protection of the gloves cannot be accurately assessed.

Respiratory tract: Based on the risk and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators should be used following a protection program to ensure proper fit, training, and important use considerations.



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Body: Personal protective equipment for the body must be suitable for the task being performed and the risks involved and approved by an expert before handling this product.

Others: Appropriate footwear and other appropriate skin protection measures should be selected based on the task being performed and the hazards involved, and this selection should be approved by a specialist before handling this product.

9. Physical and chemical properties

Basic physical and chemical properties

Physical state:	PART (A) PART (B)	Paste Paste
Color:	PART (A) PART (B)	Light yellow Light yellow
Odor:	PART (A) PART (B)	None Similar to ammonia
Odor threshold: N/D		
pH:	PART (A) PART (B)	7 N/A
Melting point:	PART (A) PART (B)	N/A N/A
Boiling point:	PART (A) PART (B)	> 200°C (> 392°F) > 205°C (> 401°F)
Flash point:	PART (A) PART (B)	259°C (498.2°F) 96°C (203°F)
Evaporation rate:	PART (A) PART (B)	N/A N/A
Flammability (solids, gases): N/A		
Lower and upper explosion (ignition) limits:	PART (A) PART (B)	N/A 1.3% - 13%
Vapor pressure:	PART (A) PART (B)	< 0.01 Pa at 20°C N/A
Vapor density:	PART (A) PART (B)	N/A N/A
Relative density:	PART (A) PART (B)	N/A N/A



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Solubility: N/A		
Solubility in water: N/A		
N-octanol/water partition coefficient: N/A		
Self-ignition temperature:	PART (A) PART (B)	Does not self-ignite.
Decomposition temperature: N/A		
Viscosity: N/A		
Flow time (ISO 2431): N/A		

10. Stability and reactivity

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

Chemical stability: The product is stable under normal conditions of use and storage.

Possibility of hazardous reactions: None under normal conditions of use and storage.

Conditions to avoid: Avoid static charge build-up, heat, flames and hot surfaces.

Incompatible materials: Strong oxidizing agents, strong acids, strong alkalis, peroxides and free radical forming materials.

Hazardous decomposition products: Carbon monoxide, carbon dioxide and oxides of nitrogen. May form flammable vapors in a fire.

11. Toxicological information

Information on toxicological effects

Acute toxicity:

Ingredient name	Result	Species	Dosage	Exposure
PART (B)				
Cyclohexanemethanamine, 5-amino-1,3,3 trimethyl- -----	LD50 Oral	Rat	1,030 mg/kg	-
Benzyl alcohol -----	LD50 Oral	Rat	1,230 mg/kg	
	LD50 Inhalation	Rat	4,178 mg/m ³	

Information on likely routes of exposure: Harmful if swallowed. In contact with skin, causes skin irritation and may cause an allergic skin reaction.

Sensitization

There is no data available.

Mutagenicity

There is no data available.

Carcinogenicity

There is no data available.

Reproductive toxicity

There is no data available.



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Teratogenicity

There is no data available.

Specific target organ toxicity (single exposure)

There is no data available.

Specific target organ toxicity (repeated exposure)

There is no data available.

Risk of absorption by aspiration

There is no data available.

Information on likely routes of exposure: Skin contact, eye contact, inhalation and ingestion. See Section 4 for review of potential acute health effects.

Symptoms corresponding to physical, chemical, and toxicological characteristics

Eye contact:	Adverse symptoms may include pain, irritation, tearing and/or redness.
Inhalation:	No known significant effects or critical hazards.
Skin contact:	Adverse symptoms may include pain, irritation, redness and blistering.
Ingestion:	Adverse symptoms may eventually include stomach pain.

Delayed and immediate effects as well as chronic effects caused by short- and long-term exposure

Short-term exposure

Possible immediate effects:	No known significant effects or critical hazards.
Possible delayed effects:	No known significant effects or critical hazards.

Long-term exposure

Possible immediate effects:	No known significant effects or critical hazards.
Possible delayed effects:	No known significant effects or critical hazards.

Potential chronic health effects

Generalities:	Once sensitized, a severe allergic reaction may occur upon subsequent exposure to very low levels.
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.
Effects on fertility:	No known significant effects or critical hazards.

Numerical toxicity values

Acute toxicity estimates: There is no data available.

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12. Ecological information

Aquatic toxicity

Ingredient name	Result	Species	Exposure
PART (B) Cyclohexanemethanamine, 5-amino-1,3,3 trimethyl- ----- -	LC50 17.4 mg/L	Aquatic invertebrates – Daphnia magna	N/A

Persistence and degradability: No data available.

Bioaccumulation: No data available.

Mobility in soil: No data available.

Results of PBT and vPvB assessment: No data available.

Other adverse effects: No data available.

13. Disposal considerations

Waste treatment methods: The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions, and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

14. Transport information

	TDG	DOT	IMDG	IATA
UN number	2735	2735	2735	2735
Proper shipping name	Amines, Liquid, Corrosive, N.O.S. (isophorone diamine)	Amines, Liquid, Corrosive, N.O.S. (isophorone diamine)	Amines, Liquid, Corrosive, N.O.S. (isophorone diamine)	Amines, Liquid, Corrosive, N.O.S. (isophorone diamine)
Transport hazard class(es)	8	8	8	8
Packing group	III	III	III	III

Environmental hazards: No

ADR: The identification of marine pollutant is not required for transport by ground.

IMDG: The mark 'marine pollutant' is not required when the substance is carried in quantities <= 5L or <= 5kg.

Exemption for limited quantity: 30 ml (inner packaging); 1 L (outer packaging).

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Special precautions for users: None

Transport in bulk in accordance with Annex II of Marpol and the IBC Code: Not applicable

15. Regulatory information

Specific safety, health and environmental regulations/legislation for the substance or mixture

NORTH AMERICA

Canadian Domestic Substance List (CDSL)

PART (B) – All ingredients are listed

TSCA (Toxic Substance Control Act, USA)

PART (B) – All ingredients are listed

16. Other information

Abbreviations and acronyms

ATE= Acute Toxicity Estimate

CLP= Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CNESST= *Commission des Normes de l'Équité de la Santé et de la Sécurité au Travail*

DMEL= Derived Minimal Effect Level

DNEL= Derived No Effect Level

ECHA= European Chemicals Association

EUH statement= CLP-specific Hazard statement

PBT= Persistent, Bio-accumulative, and Toxic

PNEC= Predicted No Effect Concentration

RRN= REACH Registration Number

vPvB= Very Persistent and Very Bio-accumulative

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