

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

1.1 Product identifier: CHILL RELEASE™ 110

Product code: CHILL RELEASE™ 110

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

Recommended use: Mold release agent

Restriction on use: For industrial use only

1.3 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

2.1 Classification of the substance or mixture

Flammable liquid – Category 2 Aspiration hazard – Category 1 Skin irritation – Category 2

Specific target organ toxicity (single exposure) – Category 3 (central nervous system)

See toxicological information, section 11

2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word: DANGER

Hazard statement(s)

H225	Highly flammable liquid and vapor.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.

General statement(s)

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.

P103

Read label before use.

Prevention statement(s)

P210

Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources.

No smoking.

P233

Keep container tightly closed.

P240

Ground and bond container and receiving equipment.

P241

Use explosion-proof electrical/ventilating/lighting equipment.

P242

Use non-sparking tools.

P243

Take action to prevent static discharges.

P261

Avoid breathing dust/fume/gas/mist/vapors/spray.

P264

Wash skin thoroughly after handling.

P271

Use only outdoors or in a well-ventilated area.

P273

Avoid release to the environment.

P280

Wear protective gloves/clothing as well as eye/face protection.

Response statement(s)

P301+P310

IF SWALLOWED: Immediately call a poison center or doctor/physician.

P302+P352

IF ON SKIN: Wash with plenty of soap and water.

P303+P361+P353

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P304+P340

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312

Call a poison center or doctor/physician if victim feels unwell.

P331

Do not induce vomiting.

P332+P313

If skin irritation occurs: Get medical advice/attention.

P362+P364

Take off contaminated clothing and wash it before reuse.

P370+P378

In case of fire: Use water fog, dry chemicals, and carbon dioxide foam to extinguish.

P391

Collect spillage.

Storage: Store in a well-ventilated area.**Disposal:** Dispose of contents/container in accordance with local / regional / national / international regulations.**2.3 Other hazards:** No other effects shown.

3. Composition / information on ingredient(s)

3.1 Substances

Material does not meet the criteria of a substance in accordance with Regulation 2012 OSHA Hazard Communication Standard: 29 CFR 1910.1200.

3.2 Mixtures

Chemical noun	% (P/P)	Information	
Hexane	60.00 – 100.00	CAS No: CLP classification:	110-54-3 H225 Highly flammable liquid and vapor H304 May be fatal if swallowed and enters airways H315 Causes skin irritation H336 May cause drowsiness or dizziness

The actual concentration range is withheld as a trade secret.

4. First-aid measures

4.1 Description of first-aid measures:

Eye contact: Flush eyes with plenty of water. If irritation persists, seek medical attention.

Skin contact: In case of skin contact, wash thoroughly with soap and water.

Inhalation: Remove source(s) of contamination and move victim to fresh air. If breathing has stopped, give artificial respiration, then oxygen if needed. Contact physician immediately.

Ingestion: Do not induce vomiting unless instructed by a physician. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed: None known.

Effects (acute or delayed): None known.

4.3 Indication of any immediate medical attention and special treatment needed: No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. Firefighting measures

5.1 Extinguishing media: Water fog, dry chemicals, and carbon dioxide foam.

Unsuitable extinguishing media: None known.

5.2 Special hazards arising from the substance or mixture:

Hazardous combustion products: None known.

5.3 Advice for firefighters: Use water spray to cool fire-exposed surfaces and to protect personnel. Shut off all sources susceptible to increase the fire. If a leak or spill has not ignited, use water spray to disperse the vapors. Either allow fire to burn under controlled conditions or extinguish with foam or dry chemicals. Try to cover liquid spills with foam. Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand or positive-pressure mode.

6. Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures: Only properly protected personnel should remain in the spill area; dike and contain spill. Stop or reduce discharge if it can be done safely.

6.2 Environmental precautions: For large spills, dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements, or confined areas.

6.2.1 In case of land spill: Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do it without risk. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Prevent entry into waterways, sewers, basements, or confined areas. A vapor suppressing foam may be used to reduce vapors. Use clean non-sparking tools to collect absorbed material. Absorb or cover with dry earth, sand, or other non-combustible material and transfer to containers. Large Spills: Water spray may reduce vapor, but may not prevent ignition in closed spaces.

6.2.2 In case of water spill: Stop leak if you can do it without risk. Eliminate sources of ignition. Warn other shipping. If the flashpoint exceeds the ambient temperature by 10 °C or more, use containment booms and remove from the surface by skimming or with suitable absorbents when conditions permit. If the flashpoint does not exceed the ambient air temperature by at least 10 °C, use booms as a barrier to protect shorelines and allow material to evaporate. Seek the advice of a specialist before using dispersants.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, and speed and direction of the wave or current (in the case of water spill) may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit the action to be taken.

6.3 Methods and material for containment and cleaning up: Put on appropriate protective gear including NIOSH/MSHA-approved self-contained breathing apparatus (SCBA), rubber boots, and heavy rubber gloves. Dike and contain spill; absorb or scrape up excess into suitable container for disposal; wash area with dilute ammonia solution. Stop or reduce discharge if it can be done safely. Follow applicable OSHA regulations (29 CFR 1910.120) for disposal.

6.4 Reference to other sections:

See section 1 for emergency contacts.

See section 8 to obtain information about appropriate individual protection equipment.

See section 13 for more information on waste treatment methods.

7. Handling and storage

7.1 Precautions for safe handling: Use good general housekeeping procedures. Wash hands after use. Do not get in eyes, on skin, or on clothing. Do not breathe vapors or mists. Use good personal hygiene practices.

7.2 Conditions for safe storage: Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated place away from heat, direct sunlight, and strong oxidizers. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent

leakage. Empty containers retain residue and may be dangerous.

Incompatibility: Strong oxidizers. Avoid contamination by water.

- 7.3 Specific end use(s):** These precautions are for room temperature handling. Other uses including elevated temperatures or aerosol/spray applications may require added precautions.

8. Exposure controls / personal protection

8.1 Control parameters: None defined.

8.2 Exposure controls:

Individual protection measures: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the lavatory, or applying cosmetics. Wash thoroughly after handling.

Eyes: Safety glasses with side shields per OSHA eye- and face-protection regulations 29 CFR 1910.133 and European Standard EN166. Contact lenses are not eye-protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Hands: Wear any liquid-tight gloves such as butyl rubber, neoprene, or PVC.

Respiratory: Respiratory protection is not normally required when using this product with adequate local exhaust ventilation. Where risk assessment shows air-purifying respirators are appropriate, follow OSHA respirator regulations 29 CFR 1910.134 and European Standards EN 141, 143, and 371; wear an MSHA/NIOSH or European Standards EN 141, 143 and 371 approved respirators equipped with appropriate filter cartridges as a backup to engineering controls.

Others: Additional protective clothing or equipment is not normally required. Provide eye bath and safety shower.

9. Physical and chemical properties

9.1 Basic physical and chemical properties

Physical state: Liquid

Color: Clear

Odor: Mild petroleum

Odor threshold: Solvent

pH: Not applicable

Melting/freezing point: Not applicable

Low/high boiling point: 97.78°C (208°F) / 104.44°C (220°F)

Flash point: > -7.78°C (18°F)

Flammability, in the case of solids and gases

Lower flammable/explosive limit: ~ 0.9

Upper flammable/explosive limit: ~ 6.3

Auto-ignition temperature: Not available

Volatility: 50%-85%

Evaporation rate: ~ 3.8 (butyl acetate=1)

Vapor pressure: Not determined

Vapor density: ~ 4 (air=1)

Relative density: 0.7-0.9 at 4°C/39.2°F (water=1)

Solubility in water: Negligible

Partition coefficient n-octanol/water: Not available

Decomposition temperature: Not available

Viscosity: < 100 centipoise

9.2 Other information: Not available

10. Stability and reactivity

10.1 Reactivity: No hazardous reaction will occur if stored and handled as prescribed/indicated. No corrosive effect on metal. Not fire propagating.

10.2 Chemical stability: These products are stable at room temperature in closed containers under normal storage and handling conditions.

10.3 Possibility of hazardous reactions: Hazardous polymerization cannot occur.

10.4 Conditions to avoid: None known.

10.5 Incompatible materials: Strong bases and acids.

10.6 Hazardous decomposition products: Thermal oxidative decomposition can produce carbon oxides, gasses, vapors, and traces of incompletely burned carbon compounds.

11. Toxicological information

11.1 Information on toxicological effects

Skin corrosion/irritation: No data available

Serious eye damage/irritation: No data available

Respiratory/skin sensitization: No data available

Mutagenicity: No data available

Carcinogenicity: No components of these products present at levels greater than or equal to 0.1% are identified as a carcinogen or potential carcinogen by IARC, ACGIH, or NTP.

Reproductive toxicity: No data available

Specific target organ toxicity – single exposure: No data available

Specific target organ toxicity –

CHILL RELEASE™ 110

repeated exposure:	No data available
Aspiration hazard:	No data available
Acute toxicity:	No data available
Chronic exposure:	No data available
Potential health effects – miscellaneous:	No data available

Cancer classification under IARC (International Agency for Research on Cancer)

- Group 1: carcinogenic to humans.
- Group 2A: probably carcinogenic to humans.
- Group 2B: possibly carcinogenic to humans.
- Group 3: not classifiable as to its carcinogenicity to humans.
- Group 4: probably not carcinogenic to humans.

Cancer classification under ACGIH (American Conference of Governmental Industrial Hygienists)

- Group A1: confirmed human carcinogen.
- Group A2: suspected human carcinogen.
- Group A3: confirmed animal carcinogen with unknown relevance to humans.
- Group A4: not classifiable as a human carcinogen.
- Group A5: not suspected as a human carcinogen.

No data available for mixture. The product has been classified on component hazards. Classes and categories not retained at the end of classification are because the components did not meet the reporting threshold or were not hazardous.

12. Ecological information

- 12.1 Toxicity:** No data available
- 12.2 Persistence and degradability:** No data available
- 12.3 Bio-accumulative potential:** No data available
- 12.4 Mobility in soil:** No data available
- 12.5 Results of PBT and vPvB assessment:** No data available
- 12.6 Other adverse effects:** No data available

13. Disposal considerations

- 13.1 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

	DOT	IMDG	ICAO / IATA
14.1 UN number		1993	
14.2 Proper shipping name		Flammable liquid, N.O.S. (hexane)	
14.3 Transport hazard class(es)		3	
14.4 Packing group		II	

Transport in bulk (according to Annex II of the International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 (MARPOL 73/78), and the International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk (IBC Code)): N/A

14.5 Environmental hazards: N/A

14.6 Special precautions for users: N/A

14.7 Transport in bulk according to Annex II of Marpol and the IBC code: N/A

15. Regulatory information

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

REACH: Regulation (EC) No 1907/2006 of The European Parliament and of The Council of December 2006 (including amendments and corrigenda as of 17 February 2016): This product complies with REACH or is not subject to regulation under REACH. The product does not contain an ingredient listed on either the Candidate List or Authorization List for Substances of Very High Concern (SVHC).

In the United States (EPA Regulations):

TSCA Inventory Status (40 CFR710): All components of this formulation are listed in the TSCA Inventory. No component of this formulation has been determined to be subject to manufacturing or use restrictions under the Significant New Use Rules (SNURs).

CERCLA Hazardous Substance List (40 CFR 302.4): None known.

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313.

SARA 311/312 Hazards: Fire. Immediate health.

California Proposition 65

This product does not intentionally contain any chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.

15.2 Chemical safety assessment: No chemical safety assessment has been carried out for this substance/mixture

by the supplier.

16. Other information

Abbreviations and acronyms

CERCLA= Comprehensive Environmental Response, Compensation, and Liability Act
CFR= Code of Federal Regulations
CLP= Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DMEL= Derived Minimal Effect Level
DNEL= Derived No Effect Level
EPA= Environmental Protection Agency (US)
EUH statement= CLP-specific Hazard statement
IBC= Intermediate Bulk Container
IMDG= International Maritime Dangerous Goods
MSHA= Mine Safety and Health Administration
NIOSH= National Institute for Occupational Safety and Health
NTP= National Toxicology Program
OSHA= Occupational Safety and Health Administration
PBT= Persistent, Bio-accumulative, and Toxic
PNEC= Predicted No Effect Concentration
RRN= REACH Registration Number
TSCA= Toxic Substance Control Act
SARA= Superfund Amendments and Reauthorization Act
vPvB= Very Persistent and Very Bio-accumulative

Notice to reader: The manufacturer hereby declares that the information disclosed herein have been based on governmental sites and/or raw material suppliers. The manufacturer has no control over the nature and content of such information. The manufacturer fully reproduces all the information it holds on the constituent of the product, at the time it is manufactured. The manufacturer does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. By this data sheet, the manufacturer hereby discloses all the potential dangers it has knowledge of and which might be related to the using or manipulation of the product in order to allow the proper care to be brought and use with regard to the product. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist and notification is hereby given to the user. Notice is hereby given that injury can derive therefrom if the foregoing is not respected. The manufacturer assumes no responsibility for personal and/or material damage, lost or injury of whichever nature caused or which may occur following the wrongful, inappropriate, negligent or abusive use or handling of the product or from not having read the herein contained information.