

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

1.1 Product identifier: CHILL DROPS™

Product code: CHILL DROPS™ OPAQUE, TRANSPARENT, OPAQUE BLACK, & TRANSPARENT BLACK

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

Recommended use: LIQUID PIGMENT

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

In accordance with WHMIS classification (Workplace Hazardous Materials Information System)

Skin irritation – Category 2

Eye irritation – Category 2A

Skin sensitization – Category 1

See toxicological information, section 11

2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word: WARNING

Hazard statement(s)

H313 May be harmful in contact with skin.

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)

P264	Wash skin thoroughly after handling.
P270	Do not eat, drink, or smoke while using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/clothing as well as eye/face protection.

Response statement(s)

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.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P332+P313	If skin irritation or rash occurs: Get medical attention.
P362+P364	Wash contaminated clothing before reuse.

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 contains ingredients listed as hazardous according to Regulation 2012 OSHA Hazard Communication
Standard: 29 CFR 1910.1200 (see below).

3.2 Mixtures

Chemical noun	% (P/P)	CAS number
OPAQUE		
Bisphenol A diglycidyl ether -----	65 – 80	25068-38-6
Titanium oxide -----	20 – 35	13463-67-7
Other components below reportable levels -----	1 – 2	
TRANSPARENT		
Bisphenol A diglycidyl ether -----	85 – 95	25068-38-6
OPAQUE BLACK		
Bisphenol A diglycidyl ether -----	65 – 80	25068-38-6
Carbon black -----	20 – 35	1333-86-4
TRANSPARENT BLACK		
Bisphenol A diglycidyl ether -----	85 – 95	25068-38-6
Carbon black -----	5 – 15	1333-86-4

The actual concentration range is withheld as a trade secret.

4. First-aid measures

4.1 Description of first-aid measures:

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Get medical attention if irritation persists.

Skin contact: Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Take off contaminated clothing and wash before reuse.

Inhalation: Move to fresh air. Call a physician if symptoms develop or persist.

Ingestion: Rinse mouth. Get medical attention if symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed: Symptoms may include stinging, tearing, redness, swelling, and blurred vision (eyes). Other possible symptoms are irritation of the skin, allergic skin reaction, dermatitis, rash, redness, and/or pain.

4.3 Indication of any immediate medical attention and special treatment needed: Provide general supportive measures and treat symptomatically. Keep victim under observation, as symptoms may be delayed. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

5. Firefighting measures

5.1 Extinguishing media: Water fog, foam, dry chemical powder, or carbon dioxide.

Unsuitable extinguishing media: Jets of water can facilitate the spread of fire.

5.2 Special hazards arising from the substance or mixture: During a fire, gases hazardous to health may be formed.

5.3 Advice for firefighters: Move containers from fire area if you can do so without risk. Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full facepiece operated in positive pressure mode.

6. Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures: Keep unnecessary personnel away. Keep people away from an upwind of spill/leak. Keep out of low areas. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors or mists. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

6.2 Environmental precautions: Avoid discharge into drains, watercourses, or onto the ground.

6.3 Methods and material for containment and cleaning up:

For large spills, stop the flow of material if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand, or earth, and place into containers. Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewer, basements, or confined areas. Following product recovery, flush area with water. Never return spills to original containers for reuse.

For small spills, wipe up with absorbent material (cloth, fleece, etc.). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for reuse.

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.

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, strong oxidizers, and any other incompatible products. 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.

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

1 – Occupational exposure limit values (US OSHA Table Z-1 limits for air contaminants (29 CFR 1910.1000))

Components	CAS No	Type	Value	Form
<u>OPAQUE</u>				
Titanium dioxide -----	13463-67-7	PEL	15 mg/m ³	Total dust
<u>OPAQUE BLACK & TRANSPARENT BLACK</u>				
Carbon black -----	1333-86-4	PEL	3.5 mg/m ³	-

2 – Occupational exposure limit values (US ACGIH Threshold Limit Values)

Components	CAS No	Type	Value	Form
<u>OPAQUE</u>				
Titanium dioxide -----	13463-67-7	TWA	10 mg/m ³	-
<u>OPAQUE/TRANSPARENT BLACK</u>				
Carbon black -----	1333-86-4	TWA	3 mg/m ³	Inhalation fraction

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limits

ACGIH ®: American Conference of Governmental Industrial Hygienists

TWA: Time Weighted Average

Biological limit values: No biological exposure limits noted for either ingredient listed above.

Appropriate engineering controls: Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eyewash facilities and emergency showers must be available when handling this product.

8.2 Exposure controls:

Individual protection measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

Eyes: Wear safety glasses with side shields (or goggles).

Hands: Wear appropriate chemical-resistant gloves.

Respiratory: In case of insufficient ventilation, wear suitable respiratory equipment. Use a NIOSH/MSHA-approved respirator if there is a risk of exposure to vapor/mist at levels exceeding the exposure limits.

Others: Wear appropriate thermal protective clothing if exposed to thermal hazards.

9. Physical and chemical properties

9.1 Basic physical and chemical properties

Physical state		Auto-ignition temperature	
Opaque/transparent:	Liquid	Opaque/transparent:	N/A
Opaque/transparent Black:	Liquid black	Opaque/transparent Black:	N/A
Odor		Evaporation rate	
Opaque/transparent:	Slight to none	Opaque/transparent:	N/A
Opaque/transparent Black:	Slight to none	Opaque/transparent Black:	N/A

Odor threshold		Vapor pressure	
Opaque/transparent:	N/A	Opaque/transparent:	N/A
Opaque/transparent Black:	N/A	Opaque/transparent Black:	N/A
pH		Vapor density (air=1)	
Opaque/transparent:	N/A	Opaque/transparent:	N/A
Opaque/transparent Black:	N/A	Opaque/transparent Black:	N/A
Melting/freezing point		Relative density (water=1)	
Opaque/transparent:	N/A	Opaque/transparent:	1.718
Opaque/transparent Black:	N/A	Opaque/transparent Black:	1.28
Initial boiling point/boiling range		Solubility in water	
Opaque/transparent:	N/A	Opaque/transparent:	Insoluble
Opaque/transparent Black:	4200°C (7592°F) est.	Opaque/transparent Black:	Insoluble
Flashpoint		Partition coefficient n-octanol/water	
Opaque/transparent:	251.7°C (485°F) est.	Opaque/transparent:	N/A
Opaque/transparent Black:	251.7°C (485°F) est.	Opaque/transparent Black:	N/A
Flammability		Decomposition temperature	
Opaque/transparent:	Non-flammable	Opaque/transparent:	N/A
Opaque/transparent Black:	Non-flammable	Opaque/transparent Black:	N/A
Lower/upper explosive limits		Viscosity	
Opaque/transparent:	N/A	Opaque/transparent:	N/A
Opaque/transparent Black:	N/A	Opaque/transparent Black:	N/A

10. Stability and reactivity

10.1 Reactivity: No hazardous reactions 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

Acute toxicity

Ingredient name	CAS No	Result	Species	Dose
<u>OPAQUE/TRANSPARENT BLACK</u>				
ED-2035 BLACK -----	Mixture	LD50 Oral (acute)	Rat	27844.2949 mg/kg est.
Carbon black -----	1333-86-4	LD50 Oral (acute)	Rat	> 8000 mg/kg

Estimates for product may be based on additional component data not shown.

Likely routes of exposure

- Ingestion:** Expected to be a low ingestion hazard.
Inhalation: Prolonged inhalation may be harmful.
Skin contact: Causes skin irritation. May cause an allergic skin reaction.
Eye contact: Causes serious eye irritation.

Symptoms related to physical, chemical, and toxicological characteristics: Symptoms may include stinging, tearing, redness, swelling, and blurred vision (eyes). Other possible symptoms are irritation of the skin, allergic skin reaction, dermatitis, rash, redness, and/or pain.

Skin corrosion/irritation: Causes skin irritation. May cause an allergic skin irritation.

Serious eye damage/irritation: Causes serious eye irritation.

Respiratory/skin sensitization: No data is available.

Mutagenicity: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity

No	CAS No	Common name and synonyms	IARC	ACGIH
1	13463-67-7	Titanium dioxide	2B	N/A
2	1333-86-4	Carbon black	2B	N/A

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.

Reproductive toxicity: This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity – single exposure: N/A

Specific target organ toxicity – repeated exposure: N/A

12. Ecological information

12.1 Toxicity: The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

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: None are expected from the components of this product.

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

	TDG	DOT	IMDG	IATA
14.1 UN number	3082			
14.2 Proper shipping name	Environmentally hazardous substance, liquid, N.O.S. (Bisphenol A diglycidyl ether)			
14.3 Transport hazard class(es)	9			
14.4 Packing group	III			

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: Yes

ADR: The identification of marine pollutants 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: 5L

14.6 Special precautions for users: Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC code: Not applicable

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.

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: None

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

ATE= Acute Toxicity Estimate

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

DMEL= Derived Minimal Effect Level

DNEL= Derived No Effect Level

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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