

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier: TPC 1350

Product name : TPC 1350
Product form : Substance
CAS No : 9003-27-4
Synonyms : TPC 1350 Kosher, Butene, homopolymer, Polybutene, Isobutene polymer; isobutylene polymer; isobutylene resin; polymerized 2-methylpropene; 2-methyl-1-propene, homopolymer; 1-propene, -2-methyl, homopolymer; polyisobutene; isobutylene homopolymer; Poly(2-methylpropene)

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

Use of the substance/mixture : Tackifier, Viscosity Modifier, Insulator

1.3. Details of the supplier of the safety data sheet:

TPC Group
One Allen Center, Suite 1000
Houston, TX, 77002 - United States
T 713.627.7474

1.4. Emergency telephone number:

Emergency number : Chemtrec - US 800-424-9300
Chemtrec – Int'l +1-793-527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture:

Classification (GHS-US)

Eye Irritant 2B

2.2. Label elements:

GHS-US labeling

Signal word (GHS-US) : Warning
Hazard statements (GHS-US) : H320 - Causes eye irritation
Precautionary statements (GHS-US) : P264 - Wash hands and other exposed areas thoroughly after handling
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337+P313 - If eye irritation persists: Get medical advice/attention

2.3. Other hazards

Other hazards not contributing to the classification : Will be stored, transported, and probably used hot (>212 °F).

2.4. Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Name	Product identifier	%	Classification (GHS-US)
Polyisobutylene (PIB)	(CAS No) 9003-27-4	100	Eye Irritant 2B, H320

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Will be stored, transported, and probably used hot (>212 °F). Heated material can cause thermal burns. Contact with hot material can cause thermal burns which may result in permanent damage. May be harmful if heated material is inhaled at high concentrations. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Assure fresh air breathing. Allow the victim to rest. If breathing stops, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention immediately.
First-aid measures after skin contact	: Hot Material. Immediately flush skin with cool water for at least 15 minutes while removing contaminated clothing and shoes. Seek medical attention immediately. Cold Material. After contact with skin, use waterless hand cleaner. Thoroughly cleanse the entire contaminated area of the body with soap and water. Wash clothing before reuse.
First-aid measures after eye contact	: Hot Material. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention immediately. Cold Material. In case of contact, immediately flush eyes with plenty of water. Seek medical attention if irritation develops.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed:

Symptoms/injuries after skin contact	: Contact with hot material can cause thermal burns which may result in permanent damage.
Symptoms/injuries after eye contact	: Causes eye irritation. Exposure to hot material may cause thermal burns.

4.3. Indication of any immediate medical attention and special treatment needed:

Medical personnel may leave this material in place to minimize physical damage to the skin or cover the material with a burn gel to prevent adhesion of the dressing to the material.

SECTION 5: Firefighting measures

5.1. Extinguishing media:

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Positive pressure self-contained breathing apparatus (SCBA) and structural firefighters' protective clothing will provide adequate protection.
Other information	: Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control. Cool adjacent structures and containers with water spray to protect and prevent ignition.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Local authorities should be advised if significant spillages cannot be contained. Keep people away from and upwind of spill/leak. Ventilate closed spaces before entering them. Keep out of low areas.

6.1.1. For non-emergency personnel

Protective equipment : Wear self-contained breathing apparatus and protective suit (see Section 8).
Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.
Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : If possible, stop flow of product. Prevent entry into waterways, sewers, basements or confined areas.
Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Never return spills in original containers for possible later re-use. Following product recovery, flush area with water. Clean surface thoroughly to remove residual contamination.

6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Avoid contact with skin, eyes and clothing. To minimize the risk of fire and/or explosion; keep away from heat, sparks, and flame. Dissipate static electricity during transfers and use explosion proof handling equipment. Empty containers may contain: flammable, combustible, or explosive residue and vapors.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Heat-ignition. Keep container closed when not in use. The pressure in sealed containers can increase under the influence of heat. . This material can accumulate static charge which may cause spark and become an ignition source . Prevent the build-up of electrostatic charge. A flammable atmosphere may be generated if material is heated for extended periods of time. Minimize/eliminate contact with oxygen (i.e. nitrogen blanket) and avoid localized heating points. Uniform heating is mandatory.

Incompatible products : Strong bases. Strong acids.
Incompatible materials : Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

TPC 1350

Safety Data Sheet

8.2. Exposure controls

Appropriate engineering controls	: General ventilation normally adequate.
Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or safety glasses. In addition to safety goggles, full face shield and/or chemical splash goggles should be worn depending on the task.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: Wear appropriate mask. Air purifying respirators with organic vapor cartridges may be used if air-borne concentrations of the mixtures' components are known. For fires, spills, or situations where the airborne concentration of the chemical is unknown, use a NIOSH approved, positive pressure, self-contained breathing apparatus (SCBA).
Other information	: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear and Bright.
Molecular mass	: Target 3500 g/mol
Color	: Colorless.
Odor	: Very faint. Characteristic.
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Flash point	: >210 °C
Auto-ignition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: Negligible.
Relative vapor density at 20 °C	: No data available
Specific Gravity/Relative density	: 0.90 - 0.94 @ 15.6 °C
Solubility	: Not miscible.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: 4000 - 4500 cSt @ 100 °C
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

TPC 1350

Safety Data Sheet

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Sparks. Heat. Elevated temperature. Open flame. Avoid contact with incompatible materials.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

10.6. Hazardous decomposition products

This material begins to decompose in air at around 250° C (482° F). During a fire, rapid depolymerization produces flammable vapors. Incomplete burning can produce carbon monoxide and/or carbon dioxide and other harmful products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Polyisobutylene (PIB) (9003-27-4)	
LD50 oral rat	> 5 g/kg
LD50 dermal rabbit	> 3000 mg/kg
LC50 inhalation rat (mg/l)	> 17.3 mg/l/4h

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Causes eye irritation.

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

Symptoms/injuries after skin contact : Contact with hot material can cause thermal burns which may result in permanent damage.

Symptoms/injuries after eye contact : Causes eye irritation. Exposure to hot material may cause thermal burns.

Likely routes of exposure : Skin and eye contact

TPC 1350

Safety Data Sheet

SECTION 12: Ecological information

12.1. Toxicity

No ecological data available on this product or of the similar product.

Ecology - general : No ecological data available on this product or of the similar product.

12.2. Persistence and degradability

Polyisobutylene (PIB) (9003-27-4)	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

Polyisobutylene (PIB) (9003-27-4)	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT

Transport document description : UN3257 Elevated temperature liquid, n.o.s. (Polyisobutylene) (at or above 100 C and below its flash point (including molten metals, molten salts, etc.)), 9, III

UN-No.(DOT) : 3257

DOT NA no. : UN3257

DOT Proper Shipping Name : Elevated temperature liquid, n.o.s. (Polyisobutylene)
at or above 100 C and below its flash point (including molten metals, molten salts, etc.)

Department of Transportation (DOT) : 9

Hazard Classes

Hazard labels (DOT) : 9



DOT Symbols : G

Packing group (DOT) : III

DOT Special Provisions (49 CFR 172.102) : IB1,T3,TP3,TP29

TPC 1350

Safety Data Sheet

DOT Packaging Exceptions	: There are no DOT Packaging Exceptions under the relevant section in 49 CFR 173.
DOT Packaging Non Bulk	: There are no regulations applicable to this substance under 49 CFR 173. When shipped as non-bulk at <100° C material is not regulated.
DOT Packaging Bulk	: 49 CFR 173.247 When shipped as bulk at <100°C, this material is not regulated.
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: Forbidden
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: Forbidden
DOT Vessel Stowage Location	: A
DOT Vessel Stowage Other	: 8585 - Under deck stowage must be in mechanically ventilated space

Additional information

Other information : No supplementary information available.

No additional information available

Transport by sea

UN-No. (IMDG)	: 3257
Proper Shipping Name (IMDG)	: Elevated temperature liquid, n.o.s. (Polyisobutylene)
Class (IMDG)	: 99 - Miscellaneous dangerous compounds
Packing group (IMDG)	: III
EmS-No. (1)	: F-A, S-P

Air transport

UN-No.(IATA)	: 3257
Proper Shipping Name (IATA)	: Elevated temperature liquid, n.o.s. (Polyisobutylene)
Class (IATA)	: 9
Instruction "cargo" (ICAO)	: FORBIDDEN
Instruction "passenger" (ICAO)	: FORBIDDEN
Instruction "passenger" - Limited quantities (ICAO)	: FORBIDDEN

SECTION 15: Regulatory information

15.1. US Federal regulations

Polyisobutylene (PIB) (9003-27-4)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
EPA TSCA Regulatory Flag	XU
SARA Section 311/312 Hazard Classes	Not listed
SARA Section 313 - Emission Reporting	None

15.2. International regulations

CANADA

Polyisobutylene (PIB) (9003-27-4)	
Listed on the Canadian DSL (Domestic Substances List) inventory.	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria

No additional information available

TPC 1350

Safety Data Sheet

15.2.2. National regulations

No additional information available

15.3. US State regulations

No additional information available

SECTION 16: Other information

Other information : None.

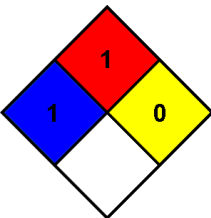
Full text of H-phrases: see section 16:

Eye Irritant 2B	Serious eye damage/eye irritation Category 2B
H320	Causes eye irritation

NFPA health hazard : 1

NFPA fire hazard : 1

NFPA reactivity : 0



HMIS III Rating

TPC 1350	
HEALTH	1
FLAMMABILITY	1
PHYSICAL	0
PERSONAL PROTECTION	

TPC SDS US (GHS HazCom 2012) 2

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