



SAFETY DATA SHEET

Preparation Date 24-Mar-2008

Revision Date 06-Dec-2013

Revision Number 2

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Identifier

Product Name POLYLINK PTSI

Other means of identification

Product Code 3611700
CAS Number 4083-64-1
Formula C₈H₇NO₃S
Synonyms Benzenesulfonyl Isocyanate, 4-Methyl-
UN-No UN2206

Recommended use of the chemical and restrictions on use

Recommended Use Coatings
Uses advised against Repeated contact with food. Avoid prolonged contact with eyes, skin, and clothing.

Details of the supplier of the safety data sheet

Supplier Address ACETO CORPORATION
4 Tri Harbor Court
Port Washington, NY 11050-4661
Phone: (516) 627-6000
Fax: (516) 627-6093
Email: aceto@aceto.com

Emergency Telephone Number(s)

ChemTrec: 1-800-424-9300 Outside of the United States: 1-703-527-3887

2. HAZARDS IDENTIFICATION

Classification

Acute toxicity - Inhalation (Gases)	Category 3
Acute toxicity - Inhalation (Vapors)	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 3
Skin Corrosion/Irritation	Category 2
Serious eye damage/eye irritation	Category 2
Respiratory Sensitization	Category 1
Specific target organ toxicity (single exposure)	Category 3

Label elements**Emergency Overview****Signal Word****DANGER****Hazard statements**

Toxic if inhaled

Causes skin irritation

Causes serious eye irritation

May cause allergy or asthma symptoms or breathing difficulties if inhaled

May cause respiratory irritation. May cause drowsiness or dizziness

**Appearance**

Clear Colorless

Physical State

Liquid

Odor

Not available

Precautionary Statements - Prevention

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

Use only outdoors or in a well-ventilated area

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

In case of inadequate ventilation wear respiratory protection

Precautionary Statements - Response

Specific treatment (see supplemental first aid instructions on this label)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

Call a POISON CENTER or doctor/physician

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None known

Other Information

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms Benzenesulfonyl Isocyanate, 4-Methyl-

Formula C₈H₇NO₃S

Chemical Name	CAS-No	Weight %	North American Hazard Indicator
Benzenesulfonyl Isocyanate, 4-Methyl-	4083-64-1	60 -100	True

4. FIRST AID MEASURES

First Aid Measures

General Advice Show this safety data sheet to the doctor in attendance.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician.

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Consult a physician.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Consult a physician.

Ingestion Do not induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Consult a physician.

Protection of First-aiders Use personal protective equipment. Avoid contact with skin, eyes and clothing.

Most important symptoms and effects, both acute and delayed

Main Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammable Properties Dangerous when wet.

Suitable Extinguishing Media Carbon dioxide (CO₂). Dry powder. Foam.

Unsuitable Extinguishing Media Water.

Hazardous Combustion Products Thermal decomposition or combustion may produce hazardous gases and/or materials.

Explosion Data

Sensitivity to mechanical impact Not available.

Sensitivity to static discharge Not available.

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Ensure adequate ventilation. Evacuate personnel to safe areas. Use personal protective equipment. Avoid contact with skin, eyes and clothing. In case of insufficient ventilation, wear suitable respiratory equipment.

Environmental Precautions Local authorities should be advised if significant spillages cannot be contained. Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Should not be released into the environment.

Methods and material for containment and cleaning up

Methods for Cleaning up Evacuate personnel to safe areas. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Handling Use only in an area equipped with a safety shower. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation. Use only in well-ventilated areas. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing. Avoid repeated exposure.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labelled containers. Protect from moisture. Reacts violently with water. Protect from water.

Incompatible Materials Alcohols. Strong bases. Amines. Acids. Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Benzenesulfonyl Isocyanate, 4-Methyl-4083-64-1	-	-	-

Appropriate engineering controls**Individual protection measures, such as personal protective equipment**

Eye/face Protection Tightly fitting safety goggles. Face-shield.

Skin and body protection Wear protective gloves and protective clothing.

Respiratory Protection In case of insufficient ventilation, wear suitable respiratory equipment.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Clear Colorless
Physical State	Liquid
Odor	Not available
Odor Threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No data available	
Melting/freezing point	5 °C	Literary Reference
Boiling Point/Range	(@ 10 mmHg) 144 °C	
Flash Point	145 °C	Closed cup
Evaporation Rate	Not available	
Flammability Limits in Air		
upper flammability limit	No information available	
lower flammability limit	Not available	
Vapor Pressure	1mmHg @ 100°C	
Vapor Density	6.80	
Specific Gravity	1.295 g/cm ³	
Water Solubility	Reacts	
Solubility in other solvents	No information available	
Partition coefficient: n-octanol/water	Not available	
Autoignition temp (°C)	No data available	Estimated
Decomposition temperature	No data available	
Viscosity, kinematic	No information available	
Viscosity, dynamic	Not available	
Explosive Properties	No information available	
Oxidizing Properties	No information available	

Other Information

Softening Point	No information available
Molecular Weight	197.22
VOC Content	No information available
Density	No information available
Bulk Density	No information available

10. STABILITY AND REACTIVITY

Reactivity	Not applicable.
Chemical Stability	Stable under recommended storage conditions
Conditions to Avoid	Heat, flames and sparks. Protect from water. Reacts violently with water. Avoid moisture.
Incompatible Materials	Alcohols. Strong bases. Amines. Acids. Strong oxidizing agents.
Hazardous Decomposition Products	Carbon Monoxide Carbon Dioxide (CO ₂) Nitrogen Oxides (NO _x) Sulfur Oxides Hydrogen cyanide (hydrocyanic acid)
Possibility of Hazardous Reactions	None under normal processing

11. TOXICOLOGICAL INFORMATION

Product Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Benzenesulfonyl Isocyanate, 4-Methyl- 4083-64-1	= 2234 mg/kg (Rat)	-	>640 ppm (Rat) 1 h

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

ATEmix (oral) 2234 mg/kg

Information on likely routes of exposure

Eyes Irritating to eyes. Lachrymation. May cause chemical conjunctivitis. Avoid contact with eyes.

Skin May be harmful in contact with skin. Irritating to skin. Contact causes severe skin irritation and possible burns. May cause sensitization by skin contact. Avoid contact with skin.

Inhalation Toxic by inhalation. Irritating to mucous membranes. Irritating to respiratory system. May cause sensitization by inhalation. Can produce delayed pulmonary edema. Avoid breathing vapors or mists.

Ingestion May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Do not ingest.

Information on toxicological effects

Symptoms No information available.

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

Irritation Eye,rabbit: 100 uL MOD ; Skin,rabbit: 500 uL/24 H MLD

Eye damage/irritation No information available.

Skin Corrosion/Irritation No information available.

Sensitization May cause sensitization by inhalation and skin contact.

Reproductive Effects No information available.

Mutagenic Effects No information available.

Developmental Effects No information available.

STOT - single exposure No information available.

STOT - Repeated Exposure No information available.

Chronic Toxicity Avoid repeated exposure.

Target Organ Effects Eyes, Skin, Respiratory system.

Aspiration Hazard No information available.

Numerical measures of toxicity - Product Information

ATEmix (inhalation-gas)	700 mg/L
ATEmix (inhalation-dust/mist)	0.5 mg/L
ATEmix (inhalation-vapor)	3 mg/L

12. ECOLOGICAL INFORMATION**Ecotoxicity**

There is no known ecological information for this product.

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

Persistence / Degradability No information available.

Bioaccumulation / Accumulation No information available.

Mobility in Soil No information available.

13. DISPOSAL CONSIDERATIONS**Waste treatment methods**

Waste Disposal Method Contact waste disposal services. Dispose of in accordance with local regulations.

Contaminated Packaging Dispose of in accordance with local regulations. Empty containers should be taken for local recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION**DOT**

UN-No	UN2206
Proper Shipping Name	Isocyanates, toxic, n.o.s
Hazard Class	6.1
Packing Group	III
Description	UN2206,Isocyanates, toxic, n.o.s.(Benzenesulfonyl Isocyanate, 4-Methyl-),6.1,PG III
Emergency Response Guide Number	155

TDG

UN-No	UN2206
Proper Shipping Name	Isocyanates, toxic, n.o.s
Hazard Class	6.1
Packing Group	III
Description	UN2206,Isocyanates, toxic, n.o.s.(Benzenesulfonyl Isocyanate, 4-Methyl-),6.1,PG III

MEX

UN-No	UN2206
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Proper Shipping Name	Isocyanates, toxic, n.o.s
Hazard Class	6.1
Packing Group	III
Description	UN2206,Isocyanates, toxic, n.o.s.(Benzenesulfonyl isocyanate, 4-methyl-),6.1,III
ICAO	
UN-No	UN2206
Proper Shipping Name	Isocyanates, toxic, n.o.s
Hazard Class	6.1
Packing Group	III
Description	UN2206,Isocyanates, toxic, n.o.s.*(Benzenesulfonyl Isocyanate, 4-Methyl-),6.1,PG III
IATA	
UN-No	UN2206
Proper Shipping Name	Isocyanates, toxic, n.o.s
Hazard Class	6.1
Packing Group	III
Description	UN2206,Isocyanates, toxic, n.o.s.*(Benzenesulfonyl Isocyanate, 4-Methyl-),6.1,PG III
IMDG/IMO	
UN-No	UN2206
Proper Shipping Name	Isocyanates, toxic, n.o.s
Hazard Class	6.1
Packing Group	III
EmS No.	F-A, S-A
Description	UN2206,Isocyanates, toxic, n.o.s.(Benzenesulfonyl isocyanate, 4-methyl-),6.1,PG III
RID	
UN-No	UN2206
Proper Shipping Name	Isocyanates, toxic, n.o.s
Hazard Class	6.1
Packing Group	III
Classification Code	T1
Description	UN2206,Isocyanates, toxic, n.o.s.(Benzenesulfonyl isocyanate, 4-methyl-),6.1,III,RID
ADR/RID-Labels	6.1
ADR	
UN-No	UN2206
Proper Shipping Name	Isocyanates, toxic, n.o.s
Hazard Class	6.1
Packing Group	III
Classification Code	T1
Description	UN2206,Isocyanates, toxic, n.o.s.(Benzenesulfonyl isocyanate, 4-methyl-),6.1,III,ADR
ADR/RID-Labels	6.1
ADN	
Proper Shipping Name	Isocyanates, toxic, n.o.s
Hazard Class	6.1
Packing Group	III
Classification Code	T1
Special Provisions	274, 551, 802
Description	UN2206,Isocyanates, toxic, n.o.s.(Benzenesulfonyl isocyanate, 4-methyl-),6.1,III
Hazard Labels	6.1
Limited Quantity	LQ7
Ventilation	VE02
Equipment Requirements	PP, EP, TOX, A

15. REGULATORY INFORMATION

International Inventories

U.S.A. (TSCA)	Complies
Canada (DSL)	Complies
EU (EINECS)	Complies
EU (ELINCS)	Does not Comply
Japan (ENCS)	Complies
China	Complies
Korea (KECL)	Complies
Philippines (PICCS)	Complies
Australia (AICS)	Complies

Chemical Name	U.S.A. (TSCA)	Canada (DSL)	EU (EINECS)	EU (ELINCS)	
Benzenesulfonyl Isocyanate, 4-Methyl-	Present	Present	Present	-	
Chemical Name	Japan (ENCS)	China	Korea (KECL)	Philippines (PICCS)	Australia (AICS)
Benzenesulfonyl Isocyanate, 4-Methyl-	Present (3)-2222	Present	Present	Present	Present

Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	Yes

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

State Right-to-Know

This product does not contain any State Right-to-Know chemicals.

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

Canada

WHMIS Statement

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

16. OTHER INFORMATION

NFPA

Health 2

Flammability 1

Instability 3

Physical Hazard 0



Preparation Date

24-Mar-2008

Revision Date

06-Dec-2013

Revision Summary

Not available

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS