

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules & Regulations Revision date: 09/16 Supersedes: 04/15 Prepared By: C. Boddie

1. Chemical Product & Company Identification

Product Identifier / Product Name:

PC-39 Fast Component A

Name, Address & Telephone of Manufacturer:

Industrial Polymers, Inc.

3250 South Sam Houston Parkway East

Houston, Texas 77047 Phone: 800-766-3832 Fax: 713-943-1525

Www.IndustrialPolymers.Com

Emergency Contact:

800-424-9300 (Inside the USA) Chemtrec: 703-527-3887 (International)

2. Hazards Identification

Classification of the Substance or Mixture (GHS-US)

Muta. 2	H341		
Carc. 1B	H350		
STOT SE 3	H335		
Aquatic Acute 1	H400		
Aquatic Chronic 1	H410		

Labeling Elements GHS-US

Hazard Pictograms:







Signal Word: Danger

Hazard Statements:

H335 - May cause respiratory irritation.

H341 - Suspected of causing genetic defects.

H350 - May cause cancer (oral)

H400 - Very toxic to aquatic life.

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P261 - Avoid breathing vapors, mist, or spray.

P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear protective gloves, protective clothing, and eye protection.

P304+P340 - If inhaled: Remove person to fresh air and keep at rest in a position comfortable for breathing.

P308+P313 - If exposed or concerned: Get medical advice/attention.

P312 - Call a poison center or doctor if you feel unwell.

P391 - Collect spillage

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up.

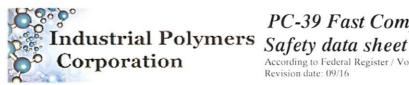
Other Hazards Not Contributing to the Classification: Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. Unknown Acute Toxicity (GHS-US): No data available

3. Composition/Information on Ingredients

Substance: Not Applicable

Mixture					
Name	Product Identifier	Concentration	Classification		
Polyethylene glycol	(CAS No) 25322-68-3 (EINECS) 500-038-2	70 – 80	STOT SE 3, H335		
1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich	(CAS No) 68515-49-1 (EINECS) 271-091-4	10 – 15	Not classified		
4,4'-Methylenebis(2-chloroaniline)	(CAS No) 101-14-4 (EINECS) 202-918-9	10 – 15	Acute Tox. 4 (Oral), H302 Muta. 2, H341 Carc. 1B, H350 Aquatic Acute 1, H400 Aquatic Chronic 1, H410		
Mercury, (neodecanoato-O)phenyl-	(CAS No) 26545-49-3 (EINECS) 247-783-7	0.042 - 0.083	Acute Tox. 2 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 2 (Inhalation:vapor), H330 STOT RE 2, H373 Aguatic Chronic 1, H410		

Full text of H-phrases: see Section 16



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4. First Aid Measures

Description of First Aid measures

First-aid Measures General: 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: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing

First-aid Measures After Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists

First-aid Measures After Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Obtain medical attention.

First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

First-aid Measures After Ingestion: Rinse mouth. Do not induce vomiting. Immediately call a Poison Center or doctor/physician.

Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms/Injuries: May cause respiratory irritation. Suspected of causing genetic defects. May cause cancer.

Symptoms/Injuries After Inhalation: Irritation of the respiratory tract and the other mucous membranes.

Symptoms/Injuries After Skin Contact: Prolonged exposure may cause skin irritation.

Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes. Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects

Chronic Symptoms: Suspected of causing genetic defects. May cause cancer.

Indication of Any Immediate Medical Attention and Special Treatment Needed: If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

5. Firefighting Measures

Extinguishing Media

Suitable Extinguishing Media: Water spray, fog, carbon dioxide (CO₂), alcohol-resistant foam, or dry chemical Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Special Hazards Arising From Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures

Explosion Hazard: Product is not explosive

Reactivity: Hazardous reactions will not occur under normal conditions

Advice For Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire. Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO₂). Nitrogen oxides. Hydrogen cyanide. Hydrogen chloride. Irritating fumes. Smoke.

Other Information: Do not allow run-off from fire fighting to enter drains or water courses

Accidental Release Measures

Personal Precautions, Protective Equipment & Emergency Procedures

General Measures: Do not get in eyes, on skin, or on clothing. Do not breathe vapor, mist or spray,

For Non-emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and

the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area

Environmental Precautions: Prevent entry to sewers and public waters. Avoid release to the environment. Collect spillage.

Methods & Material for Containment & Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill

Reference to Other Sections: See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

7. Handling & Storage

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. Avoid contact with eyes, skin and clothing. Obtain special instructions before use. Do not breathe vapors, mist, spray. Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

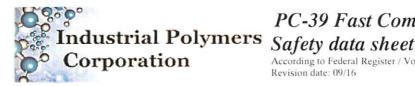
Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations

Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials

Incompatible Products: Polymerization catalysts. Ammonia. Finely powdered aluminum and magnesium. Alkalis. Strong acids, strong bases, strong oxidizers

Specific End Use(s): No additional information available



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Exposure Controls/Personal Protection

Control Parameters: For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), or OSHA (PEL)

4,4'-Methylenebis(2-chloroaniline) (101-14-4)

ACGIH TWA (ppm) 0.01 ppm

ACGIH chemical category Skin - potential significant contribution to overall exposure by the cutaneous route, Suspected Human

Carcinogen

Parameter: Total MBOCA - Medium: urine - Sampling time: end of shift (nonquantitative) ACGIH Biological Exposure Indices (BEI)

REL (TWA) (mg/m³) NIOSH 0.003 mg/m³

Polyethylene glycol (25322-68-3

10 mg/m3 (MW>200, aerosol) AHA WEEL TWA (mg/m3)

Exposure Controls

Appropriate Engineering Controls: Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

Personal Protective Equipment: Protective goggles. Gloves. Protective clothing, Insufficient ventilation; wear respiratory protection.









Materials for Protective Clothing: Chemically resistant materials and fabrics

Hand Protection: Wear chemically resistant protective gloves

Eye Protection: Chemical goggles or safety glasses

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Environmental Exposure Controls: Do not allow the product to be released into the environment.

Consumer Exposure Controls: Do not eat, drink or smoke during use.

9. Physical & Chemical Properties

Information on Basic Physical & Chemical Properties

Physical State: Liquid Appearance: Black

Odor: Aromatic Odor Threshold: No data available

pH: No data available Melting Point/ Freezing Point: No data available

Boiling Point:

450°F Decomposition Temperature: No data available No data available

Flammability (solid, gas): Relative Vapor Density at 20°C: Greater (Air = 1) Log Pow: No data available

Solubility: Negligible/Reacts slowly with water, slowly

Specific Gravity: 1.03

Self-Ignition temperature: No data available Viscosity: 35,000 cps **Oxidizing Properties:** No data available Flash Point: No data available

Explosive Properties: Product is not explosive, however, formation of explosive air vapour mixture is possible

Relative Evaporation Rate Slower (Ether=1)

10. Stability & Reactivity

Reactivity: Hazardous reactions will not occur under normal conditions.

Chemical Stability: Stable under recommended handling and storage conditions (see section 7).

Possibility of Hazardous Reactions: Hazardous polymerization will not occur

Conditions to Avoid: Direct sunlight, extremely high or low temperatures, and incompatible materials.

Incompatible Materials: Polymerization catalysts. Ammonia. Alkalis. Finely powdered aluminum and magnesium. Strong acids, strong bases, strong oxidizers.

Hazardous Decomposition Products: None known.

11. Toxicological Information

Information On Toxicological Effects

Acute Toxicity: Not Classified

1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich (68515-49

LD50 Oral Rat > 60000 mg/kg

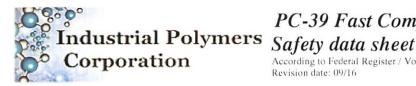
LD50 Dermal Rabbit 16000 mg/kg

4,4'-Methylenebis(2-chloroaniline) (101-14-4

LD50 Oral Rat 1140 mg/kg LD50 Dermal Rabbit > 5000 mg/kg

Polyethylene glycol (25322-68-3)

LD50 Oral Rat 47000 mg/kg LD50 Dermal Rabbit > 20 ml/kg



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Toxicological Information (Cont.)

Mercury, (neodecanoato-O)phenyl- (26545-49-3)

ATE (Oral) 5.00 mg/kg body weight ATE (Dermal) 5.00 mg/kg body weight ATE (Vapors)

0.50 mg/l/4h Skin Corrosion/Irritation Not classified Serious Eye Damage/Irritation Not classified Respiratory or Skin Sensitization Not classified

Germ Cell Mutagenicity: Suspected of causing genetic defects

Carcinogenicity May cause cancer (oral). Not classified

Reproductive Toxicity Specific Target Organ Toxicity (Single Exposure) May cause respiratory irritation.

Specific Target Organ Toxicity (Repeated Exposure) Not classified Aspiration Hazard Not classified

12. Ecological Information

Toxicity:

Ecology - General: Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich (68515-49-1)

> 0.66 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) LC50 Fish 1

EC50 Daphnia 1 > 0.18 mg/l (Exposure time: 48 h - Species: Daphnia magna)

LC50 Fish 2 > 1 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])

4,4'-Methylenebis(2-chloroaniline) (101-14-4)

0.606 mg/l LC50 Fish 1 EC50 Daphnia 1 0.25 mg/l NOEC Chronic Crustacea 0.0095 mg/l

Persistence and Degradability: May cause long-term adverse effects in the environment.

Bioaccumulative Potential: Not established.

1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich (68515-49-1)

BCF fish 1 3500

Mobility in Soil: No additional information available Other Adverse Effects: Avoid release to the environment

13. Disposal Consideration

Waste treatment methods

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

Additional Information: Container may remain hazardous when empty. Continue to observe all precautions.

Ecology - Waste Materials: Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways

14. Transport Information

UN Number

UN/DOT NA: None

UN/DOT Proper Shipping Name:

Liquid Resin (Non-Regulated)

Freight Class:

55

DOT Hazard Classes:

Non-regulated

Packing Group (DOT)

None

IMO / IMDG CODE (OCEAN) HAZARD CLASS DIVISION NUMBER:

ICAO / IATA (AIR) HAZARD CLASS DIVISION NUMBER:

Non-regulated/Not Dangerous Goods Non-regulated/Not Dangerous Goods

15. Regulatory Information

US Federal Regulations

SARA Section 311/312 Hazard Classes: Immediate (acute) health hazard Delayed (chronic) health hazard

1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich (

Listed on the United States TSCA (Toxic Substances Control Act) inventory

4,4'-Methylenebis(2-chloroaniline) (101-14-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313

CERCLA RQ

10 lb 0.1 %

SARA Section 313 - Emission Reporting Polyethylene glycol (25322-68-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, **EPA TSCA Regulatory Flag**

i.e, Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C))

Mercury, (neodecanoato-O)phenyl- (26545-49-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

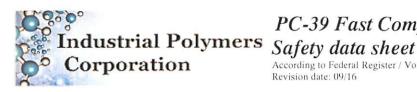
EPA TSCA Regulatory Flag P - P - indicates a commenced PMN substance

US State Regulations

1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich (68515-49-1)

U.S. - California - Proposition 65 - Developmental Toxicity

WARNING: This product contains chemicals known to the State of California to cause birth defects.



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15. Regulatory Information (Cont.)

4,4'-Methylenebis(2-chloroaniline) (101-14-4)

U.S. - California - Proposition 65 - Carcinogens List

WARNING: This product contains chemicals known to the State of California to cause cancer.

4,4'-Methylenebis(2-chloroaniline) (101-14-4)

U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

U.S. - Pennsylvania - RTK (Right to Know) List

16. Other Information

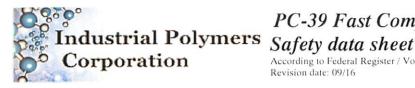
GHS Full Text Phrases:						
Acute Tox. 1 (Dermal)	H310	Acute toxicity	(dermal) Category 1			
Acute Tox. 2 (Inhalation:vapor)	H330	Acute toxicity	Acute toxicity (inhalation:vapor) Category 2			
Acute Tox. 2 (Oral)	H300	Acute toxicity	Acute toxicity (oral) Category 2			
Acute Tox. 4 (Oral)	H302	Acute toxicity	Acute toxicity (oral) Category 4			
Aquatic Acute 1	H400	Hazardous to	Hazardous to the aquatic environment - Acute Hazard Category 1			
Aquatic Chronic 1	H410	Hazardous to	Hazardous to the aquatic environment - Chronic Hazard Category 1			
Carc. 1B	H350	Carcinogenic	Carcinogenicity Category 1B			
Muta. 2	H341	Germ cell mutagenicity Category 2				
STOT RE 2	H373	Specific target organ toxicity (repeated exposure) Category 2				
STOT SE 3	H335	Specific target organ toxicity (single exposure) Category 3				
NFPA 704M ratings:	H	Health	Flammability	Reactivity	Other	
		1	1	1		
HMIS ratings:	ŀ	Health	Flammability	Physical Hazard	Personal Protection	
0-Insignificate		1	1	1	С	

1-Slight 2-Moderate

3-High

4-Extreme

Other Information: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200. This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Industrial Polymers, Inc. The data on this sheet relates only to the specific material designated herein. Industrial Polymers, Inc assumes no legal responsibility for use or reliance upon this data.



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Chemical Product & Company Identification

Product Identifier / Product Name:

PC-39 Fast Component B

Name, Address & Telephone of Manufacturer:

Industrial Polymers, Inc.

3250 South Sam Houston Parkway East

Houston, Texas 77047 Phone: 800-766-3832 Fax: 713-943-1525

Www.IndustrialPolymers.Com

Emergency Contact:

800-424-9300 (Inside the USA) Chemtrec:

703-527-3887 (International)

2. Hazards Identification

Classification of the Substance or Mixture (GHS-US)

Resp. Sens. 1	H334
Skin Sens. 1	H317
Aquatic Acute 3	H402

Labeling Elements GHS-US

Hazard Pictograms:



Signal Word: Danger

Hazard Statements:

H317 - May cause an allergic skin reaction.

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H402 - Harmful to aquatic life.

Precautionary Statements:

P261 - Avoid breathing vapors, mist, or spray.

P272 - Contaminated work clothing must not be allowed out of the workplace.

P273 - Avoid release to the environment.

P280 - Wear protective gloves, protective clothing, and eye protection.

P284 - [In case of inadequate ventilation] wear respiratory protection.

P302+P352 - If on skin: Wash with plenty of water.

P304+P340 - If inhaled: Remove person to fresh air and keep at rest in a position comfortable for breathing.

P321 - Specific treatment (see section 4 on this SDS)

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention

P342+P311 - If experiencing respiratory symptoms: Call a poison center or doctor.

P363 - Wash contaminated clothing before reuse.

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations

Other Hazards: Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

Unknown Acute Toxicity (GHS-US): No data available

3. Composition/Information on Ingredients

Substance: Not Applicable

Mixture

Name	Product Identifier	Concentration	Classification
Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), polymer with 1,1'-methylenebis[4-isocyanatobenzene]	(CAS No) 59675-67-1	90 – 95	Resp. Sens. 1, H334 Skin Sens. 1, H317
Propanol, oxybis-, dibenzoate	(CAS No) 27138-31-4 (EINECS) 248-258-5	5% - 10%	Aquatic Acute 2, H401 Aquatic Chronic 3, H412

Full text of H-phrases: see Section 16

4. First Aid Measures

Description of First Aid measures

First-aid Measures General: 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: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists

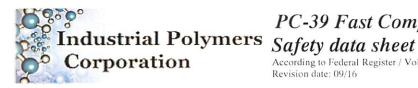
First-aid Measures After Skin Contact: Remove contaminated clothing, Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists

First-aid Measures After Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms/Injuries: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.



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First Aid Measures (Cont.)

Symptoms/Injuries After Inhalation: Exposure may produce cough, mucous secretions, shortness of breath, chest tightness, or other symptoms indicative of an allergic/sensitization reaction.

Symptoms/Injuries After Skin Contact: May cause an allergic skin reaction. Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes. Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: None known.

Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

5. Firefighting Measures

Extinguishing Media

Suitable Extinguishing Media: Water spray, fog, carbon dioxide (CO₂), alcohol-resistant foam, or dry chemical. Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire. Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO₂). Nitrogen oxides. Isocyanates.

Other Information: Do not allow run-off from fire fighting to enter drains or water courses.

6. Accidental Release Measures

Personal Precautions, Protective Equipment & Emergency Procedures

General Measures: Do not breathe vapor, mist or spray. Do not get in eyes, on skin, or on clothing

For Non-emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and

the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area,

Environmental Precautions: Prevent entry to sewers and public waters. Avoid release to the environment.

Methods & Material for Containment & Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal.

Contact competent authorities after a spill.

Reference to Other Sections: See Heading 8. Exposure controls and personal protection.

7. Handling & Storage

Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid prolonged contact with eyes, skin and clothing. Avoid breathing vapors, mist, and spray

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible Products: Strong acids, strong bases, strong oxidizers.

Specific End Use(s): No additional information available.

8. Exposure Controls/Personal Protection

Control Parameters For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), or OSHA (PEL)

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment: Gloves. Protective clothing. Protective goggles









Materials for Protective Clothing: Chemically resistant materials and fabrics.

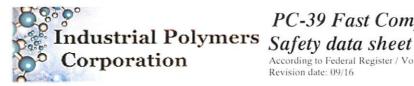
Hand Protection: Wear protective gloves. Eye Protection: Chemical safety goggles.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Environmental Exposure Controls: Do not allow the product to be released into the environment.

Consumer Exposure Controls: Do not eat, drink or smoke during use



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Physical & Chemical Properties

Information on Basic Physical & Chemical Properties

Physical State:

Liquid Black

Appearance: Odor:

Aromatic

Odor Threshold:

No data available No data available

pH:

Melting Point/ Freezing Point:

No data available

Boiling Point:

Decomposition Temperature: Flammability (solid, gas):

No data available No data available Greater (Air = 1)

Relative Vapor Density at 20°C: Log Pow:

No data available

Solubility:

Negligible/Reacts slowly with water, slowly

Specific Gravity:

1.21

Self-Ignition temperature: Viscosity:

No data available 490 CPS

Oxidizing Properties:

No data available

Flash Point:

No data available

Explosive Properties:

Product is not explosive, however, formation of explosive air vapour mixture is possible.

Relative Evaporation Rate

Slower (Ether=1)

10. Stability & Reactivity

Reactivity: Hazardous reactions will not occur under normal conditions.

Chemical Stability: Stable under recommended handling and storage conditions (see section 7).

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Direct sunlight, extremely high or low temperatures, and incompatible materials.

Incompatible Materials: Strong acids, strong bases, strong oxidizers.

Hazardous Decomposition Products: None known.

11. Toxicological Information

Information On Toxicological Effects

Acute Toxicity: Not Classified

Skin Corrosion/Irritation:

Not classified

Serious Eye Damage/Irritation:

Not classified

Respiratory or Skin Sensitization:

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May

cause an allergic skin reaction.

Germ Cell Mutagenicity: Carcinogenicity

Not classified Not classified Not classified

Reproductive Toxicity Specific Target Organ Toxicity (Single Exposure)

Not classified Not classified

Specific Target Organ Toxicity (Repeated Exposure) **Aspiration Hazard**

Not classified

12. Ecological Information

Toxicity

Ecology – General: Harmful to aquatic life. Propanol, oxybis-, dibenzoate (27138-31-4

LC50 Fish 1

3.7 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])

NOEC Chronic Fish

1.2 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])

Persistence and Degradability: Not established.

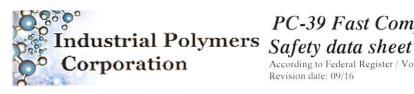
Bioaccumulative Potential: Not established Mobility in Soil: No additional information available.

Other Adverse Effects: Avoid release to the environment.

13. Disposal Consideration

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, and international regulations. Additional Information: Container may remain hazardous when empty. Continue to observe all precautions.

Ecology - Waste Materials: Avoid release to the environment. This material is hazardous to the aguatic environment, Keep out of sewers and waterways.



According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules & Regulations Revision date: 09/16 Supersedes: 04/15 Prepared By: C. Boddie

14. Transport Information

UN Number

Freight Class:

UN/DOT NA: None

UN/DOT Proper Shipping Name:

Liquid Resin (Non-Regulated)

55

DOT Hazard Classes:

Non-regulated

Packing Group (DOT)

None

IMO / IMDG CODE (OCEAN) HAZARD CLASS DIVISION NUMBER:

ICAO / IATA (AIR) HAZARD CLASS DIVISION NUMBER:

Non-regulated/Not Dangerous Goods Non-regulated/Not Dangerous Goods

15. Regulatory Information

US Federal Regulations

SARA Section 311/312 Hazard Classes: Immediate (acute) health hazard

Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), polymer with 1,1'-methylenebis[4-isocyanatobenzene] (59675-67-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e, **EPA TSCA Regulatory Flag** Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C))

Propanol, oxybis-, dibenzoate (27138-31-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

US State Regulation: Neither this product nor its chemical components appear on any US state lists.

Other Information

GHS Full Text Phrases:

Aquatic Acute 2	H401	Hazardous to the aquatic environment - Acute Hazard Category 2	
Aquatic Acute 3	H402	Hazardous to the aquatic environment - Acute Hazard Category 3	
Aquatic Chronic 3	H412 Hazardous to the aquatic environment - Chronic Hazard Category 3		
Resp. Sens. 1	H334	Respiratory sensitisation Category 1	
Skin Sens. 1	H317	Skin sensitization Category 1	

NFPA 704M ratings:	Health 2	Flammability 1	Reactivity 1	Other
HMIS ratings:	Health	Flammability	Reactivity	Personal Protection
0-Insignificate	2	1	1	D
1-Slight				
2-Moderate				
3-High				
4-Extreme				

Other Information: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200. This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Industrial Polymers, Inc. The data on this sheet relates only to the specific material designated herein. Industrial Polymers, Inc. assumes no legal responsibility for use or reliance upon this data.