

Section 1 - Identification of the substance/mixture and of the company/undertaking

- 1.1 Product Identifier** Original LMR Compound & Catalyst (White)
Trade Name: Part A:
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
General Use: Formulated Polyurethane Isocyanate
Restrictions on Use: None known
- 1.3 Details of the supplier of the safety data sheet:**
Company: Romanoff International Supply Corporation
9 Deforest Street
Amityville, NY 11701 US
Tel: 631-842-2400
- 1.4 Emergency Contact:** CHEM TEL, Account# MIS4594445
24-Hour Telephone Numbers: United States, Canada, Puerto Rico & U.S. Virgin Islands: 1-800-255-3924,
Australia: 1-300-954-583, Brasil: 0-800-591-6042, China: 400-120-0751, India: 000-800-100-4086,
Mexico: 800-099-0731 ALL OTHER COUNTRIES: 1-813-248-0585

Section 2 – Hazard(s) Identification

- 2.1 Classification of the substance or mixture:**
GHS Classification in accordance with 29 CFR 1910.1200 (OSHA HCS)
- H315 Skin corrosion/irritation – Category 2
 - H317 Skin sensitization – Category 1
 - H319 Eye irritation – Category 2A
 - H332 Acute toxicity, inhalation – Category 4
 - H334 Respiratory Sensitization – Category 1
 - H335 Specific target organ toxicity – single exposure – Category 3 (respiratory)
 - H351 Carcinogenicity – Category 2
 - H373 Specific Target Organ Toxicity, repeated exposure Category 2 (respiratory)
 - H400 Chronic Aquatic Toxicity – Category 1
- 2.2 GHS Label elements, including precautionary statements**



Pictogram(s):
Signal word: Danger

Health Hazards

- H315 Causes skin irritation
- H317 May cause an allergic skin reaction
- H319 Causes serious eye irritation
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
- H335 May cause respiratory irritation
- H351 Suspected of causing cancer.
- H373 May cause damage to organs (Olfactory organs) through prolonged or repeated exposure.

Environmental Hazards

H400 Very toxic to aquatic life.

General Precautions

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 Precautions

P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P260 Do not breathe dust/fume/gas/mist/vapors/spray.
 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.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P284 [In case of inadequate ventilation] wear respiratory protection.

Response Precautions

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
 P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308 + P311 If exposed or concerned: Call a POISON CENTER or doctor/physician.
 P312 Call a POISON CENTER or doctor/physician if you feel unwell.
 P314 Get medical advice/attention if you feel unwell.
 P332 + P313 IF SKIN irritation occurs: Get medical advice/attention.
 P362 + P364 Take off contaminated clothing and wash it before reuse.
 P391 Collect spillage.

Storage Precautions

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
 P405 Store locked up.

Disposal Precautions

P501 Dispose of contents/container according to local, state and federal laws.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS – none known
 This product contains a chemical known to be hazardous according to California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65). (See also Section 3 and 15)

Section 3 - Composition / Information on Ingredients

3.1 Substances/Mixtures

Chemical name	CAS-No.	Concentration (%wt)
4,4' Methylene bis(phenylisocyanate) (MDI)	101-68-8	9 – 21
Polymethylene polyphenyl isocyanates	9013-87-9	18 – 36
Butyl benzyl phthalate	85-68-7	40 – 70

Section 4 - First Aid Measures

4.1 Description of first aid measures

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.

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.

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.

4.3 Indication of any immediate medical attention and specific treatment needed.

Section 5 - Fire-Fighting Measures

5.1 Extinguishing Media

Water Fog, Dry Chemical, and Carbon Dioxide Foam

5.2 Special hazards arising from the substance or mixture

None known.

5.3 Advice for firefighters

Use water spray to cool fire-exposed surfaces and to protect personnel. Shut off "fuel" to 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 chemical. 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-face piece operated in pressure demand or positive-pressure mode.

Section 6 - Accidental Release Measures
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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

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains or unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers. No special environmental precautions required.

6.3 Methods and material for containment and cleaning up

Put on appropriate protective gear including NIOSH/MSHA approved self-contained breathing apparatus, 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 3 for list of Hazardous Ingredients; Sections 8 for Exposure Controls; and Section 13 for Disposal.

Section 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, including any incompatibilities

Keep container(s) tightly closed and properly labeled. Store in cool, dry, well ventilated place away from heat, direct sunlight, strong oxidizers and any incompatibles. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet local 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. Avoid water contamination.

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.

Section 8 - Exposure Controls / Personal Protection
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8.1 Control parameters

Component	CAS-No.	Value	Control Parameters	Basis
4,4'-Methylenebis(phenyl isocyanate)	101-68-8	CLV	0.02 ppm 0.2 mg/m ³	USA. OSHA Permissible Exposure Limit (PEL)
		TWA	0.005 ppm	USA. ACGIH Threshold Limit Values (TLV)
Polymethylene polyphenyl isocyanates	9013-87-9	CLV	0.02 ppm 0.2 mg/m ³	USA. OSHA Permissible Exposure Limit (PEL)
		TWA	0.005 ppm	USA. ACGIH Threshold Limit Values (TLV)

8.2 Exposure controls**Respiratory Protection**

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.

Hand Protection

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

Eye Protection

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.

Other Protective Clothing/Equipment

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

Comments

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

Section 9 - Physical and Chemical Properties

9.1 Information on basic physical and chemical properties:

Appearance:	Liquid	Vapor pressure:	0.00016 mmHg (68 °F)
Odor:	Characteristic odor	Vapor density (Air=1):	8.6
Odor threshold:	No data	Relative density:	No data
pH:	No data	Solubility in water:	Insoluble

Melting / freezing point:	37°F	Partition coefficient (n-octanol/water):	No data
Low / high boiling point:	>390°F	Auto-ignition temperature:	No data
Flash Point:	390°F	Decomposition temperature:	No data
Evaporation rate:	No data	Viscosity:	100 centipoise
Flammability (solid, gas):	No data	% Volatile:	0% (v/v), 0% (w/w)
Upper/lower flammability or explosive limits:	No data	Specific Gravity (H2O=1, at 4 °C)	1.1

Section 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. Reacts with water with formation of carbon dioxide. Risk of bursting.

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
Reacts with water with formation of carbon dioxide. Risk of bursting.

10.5 Incompatible materials
Water (and moisture) 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.

Section 11- Toxicological Information

11.1 Information on toxicological effects

Acute Toxicity

4,4' Methylene bis(phenylisocyanate) (MDI)

LD50, oral - >10,000 mg/kg (rat)

LD50, dermal - > 10,000 mg/kg (rabbit)

LC50, inhalation – 2.24 mg/l (rat, 1 hour, aerosol): at room temperature, vapors are minimal due to low volatility. Data based on spray operations.

Skin Corrosion/Irritation

Prolonged contact may cause slight irritation with local redness; may stain skin.

Serious Eye Damage/Irritation

Draize test (rabbit): irritating (based on MDI); may cause moderate eye irritation; may cause slight temporary corneal injury

Respiratory/Skin Sensitization

Skin contact may cause an allergic skin reaction; animal studies have shown that skin contact with socyanates may play a role in respiratory sensitization; may cause allergic respiratory reaction.

Germ Cell Mutagenicity

Genetic toxicity data on MDI are inconclusive.

Carcinogenicity

IARC – Group 3, not classifiable as to its carcinogenicity in humans (MDI and butyl benzyl phthalate). No component of this product at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP or OSHA.

Reproductive Toxicity

No data

Specific Target Organ Toxicity – Single Exposure

No data

Specific Target Organ Toxicity – Repeated Exposure

No data

Aspiration Hazard

Based on physical properties, not likely to be an aspiration hazard.

Potential Health Effects – Miscellaneous

No data

Section 12 - Ecological Information

12.1 Toxicity

LC0 (96 h):	> 6,700 mg/l,	Brachydanio rerio
EC50 (24 h):	> 6,700 mg/l,	Daphnia magna
EC0 (72 h, static):	>10,900 mg/l (growth rate),	Scenedesmus subspicatus
LC50 (96 h):	2.8 mg/l,	Lepomis macrochirus
NOEC (96 h):	0.8 mg/l,	Oncorhynchus mykiss
LC50, flow through (96 h):	3.5 mg/l	Pimephales promelas
EC50 (72 h):	0.52 mg/l,	Desmodesmus subspicatus

12.2 Persistence and Degradability

Poorly biodegradable. This product is unstable in water. The elimination data also refer to products of hydrolysis.

12.3 Bioaccumulative Potential

Significant accumulation in organisms is not to be expected. Bioconcentration factor >200.

12.4 Mobility in Soil

Adsorption to solid soil phase is not expected.

12.5 Results of PBT and vPvB assessment

No data

12.6 Other Adverse Effects

The substance will not evaporate into the atmosphere from the water surface.

Section 13 - Disposal Considerations

13.1 Waste treatment methods

Under Resource Conservation and Recovery Act (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 as defined in 40 CFR Part 261. Waste management should be in full compliance with federal, state and local laws. Empty containers retain product residue which may exhibit hazards of material, therefore to not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

Section 14 - Transport Information

Regulated by DOT, IATA or IMDG (for DOT only, containers less than 119 gal./882 lbs. are not regulated).

	<i>Land transport (DOT)</i>	<i>Sea transport (IMDG)</i>	<i>Air transport (ICAO/IATA)</i>
UN number:	3082	3082	3082
UN proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (Butyl Benzyl Phthalate Mixture)	Environmentally hazardous substance, liquid, n.o.s. (Butyl Benzyl Phthalate Mixture)	Environmentally hazardous substance, liquid, n.o.s. (Butyl Benzyl Phthalate Mixture)
Transport hazard class(s):	9	9	9
Packing group:	III	III	III
Environmental hazards:	Marine Pollutant	Marine Pollutant	Marine Pollutant
Special precautions for user:	-	-	-
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	-	-	-

Section 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 is subject to regulation under REACH. The product contains the following ingredient(s) listed on either the Candidate List or Authorization List for Substances of Very High Concern (SVHC):

butyl benzyl phthalate

85-68-7

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).

SARA 302 Components

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

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and community Right-to-Know Act of 1986) Sections 311 and 312

Immediate (Acute), Delayed (Chronic), Fire

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313

Component	CAS#	Concentration (% w/w)
4,4'-Methylenebis(phenyl isocyanate)	101-68-8	25 – 50
Polymethylene polyphenyl isocyanates	9013-87-9	50 – 75

KEEP OUT OF REACH OF CHILDREN

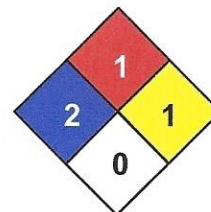


WARNING: Known to the State of CA to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

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

16 - Other Information

HMIS	
H	2
F	1
R	1



NFPA

Revision Date: 6/21/2018 Version: 4.0

Abbreviations and acronyms

ACGIH-American Conference of Governmental Industrial Hygienists; ANSI-American National Standards Institute; Canadian TDG-Canadian Transportation of Dangerous Goods; CAS-Chemical Abstract Service; Chemtrec-Chemical Transportation Emergency Center (US); CHIP-Chemical Hazard Information and Packaging; DSL-Domestic Substances List; EC-Equivalent Concentration; EH40 (UK)-HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA-Emergency Planning and Community Right-To-Know Act; ESL-Effects screening levels; GHS-Globally Harmonized System of Classification and Labelling of Chemicals; HMIS-Hazardous Material Information Service; IATA-International Air Transport Association; IMDG-International Maritime Dangerous Goods Code; LC-Lethal Concentration; LD-Lethal Dose; LEL-Lower Explosion Level; NFPA-National Fire Protection Association; OEL-Occupational Exposure Limit; OSHA-Occupational Safety and Health Administration, US Dept. of Labor; PEL-Permissible Exposure Limit; SARA (Title III)-Superfund Amendments and Reauthorization Act; SARA 313-Superfund Amendments and Reauthorization Act, Section 313; SCBA-Self-Contained Breathing Apparatus; STEL-Short Term Exposure Limit; TCEQ-Texas Commission on Environmental Quality; TLV-Threshold Limit Value; TSCA-Toxic Substances Control Act Public Law 94-469; TWA-Time Weighted Value; UEL-Upper Explosion Level; US DOT-US Department of Transportation; WHMIS-Workplace Hazardous Materials Information System.

Disclaimer

The information contained in this Safety Data Sheet (SDS) is considered accurate as of the version date. However, no warranty is expressed or implied regarding the accuracy of the data. Since the use of this product is not within the control of Romanoff Intl., it is the user's obligation to determine the suitability of the product for its intended application and assumes all risk and liability for its safe use.

This SDS is prepared to comply with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) as prescribed by the United States (US) Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS), and European Union Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 (REACH).

Classifications of the chemical in accordance with 29 CFR 1910.1200, signal word, hazard and precautionary statement(s), symbol(s) and other information are based on listed concentration of each hazardous ingredient. Unlisted ingredients are not "hazardous" per the OSHA Hazard Communication Standard (29 CFR 1910.1200), WHMIS and EC No 1907/2006 and are considered trade secrets under US Federal Law (29 CFR and 40 CFR), Canadian Law (Health Canada Legislation), and European Union Directives.

ITEM# 73-052, 73-052-5, 73-053A Parts A & B

Revision Date: 8/13/2018 Version: 2.0

GHS Compliant

Section 1 – Identification Identification of the substance/mixture and of the company/undertaking

- 1.1 Product Identifier** Original LMR Compound & Catalyst (White)
Trade Name: **Part B:**
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
General Use:
Restrictions on Use: None known
- 1.3 Details of the supplier of the safety data sheet:**
Company: Romanoff International Supply Corporation
9 Deforest Street
Amityville, NY 11701 US
Tel: 631-842-2400
- 1.4 Emergency Contact:** CHEM TEL, Account# MIS4594445

24-Hour Telephone: United States, Canada, Puerto Rico & U.S. Virgin Islands: 1-800-255-3924
Australia: 1-300-954-583, Brasil: 0-800-591-6042, China: 400-120-0751, India: 000-800-100-4086,
Mexico: 800-099-0731 ALL OTHER COUNTRIES: 1-813-248-0585

Section 2 – Hazard(s) Identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910.1200 (OSHA HCS)

- H300** Acute Toxicity, oral - Category 2
- H310** Acute Toxicity, dermal – Category 1
- H330** Acute Toxicity, inhalation – Category 2
- H360** Reproductive Toxicity - Category 1B
- H373** Specific Target Organ Toxicity, repeated exposure – Category 2
- H410** Chronic Aquatic Toxicity - Category 1

2.2 GHS Label elements, including precautionary statements



Pictogram(s):
Signal word: Danger

Health Hazards:

- H300 Fatal if swallowed.
- H310 Fatal in contact with skin.
- H330 Fatal if inhaled.
- H360 May damage fertility or the unborn child.
- H373 Causes damage to organs through prolonged or repeated exposure.

Environmental Hazards:

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

General Precautions:

- 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 Precautions:

P201 Obtain special instructions before use.

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

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P262 Do not get in eyes, on skin, or on clothing.

P264 Wash with soap and water thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

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

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response Precautions:

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P312 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.

P306 + P360 IF ON CLOTHING: Rinse Immediately contaminated clothing and skin with plenty of water before removing clothes.

P363 Wash contaminated clothing before reuse.

Storage Precautions:

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

P405 Store locked up.

Disposal Precautions:

P501 Dispose of contents/container according to local, state and federal laws.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS – none known

This product contains a chemical known to be hazardous according to California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65). (See also Section 3 and 15).

Section 3 - Composition / Information on Ingredients

3.1 Substances/Mixtures The following ingredients are hazardous according to Regulation 2012 OSHA Hazard Communication Standard: 29 CFR 1910.1200:

Chemical name	CAS-No.	Concentration (% w/w)
Butyl benzyl phthalate	85-68-7	15% - 40%
Phenylmercuric oleate (C ₂₄ H ₃₈ HgO ₂)	104-60-9	0.10% - 0.80%

Section 4 - First Aid Measures

4.1 Description of first aid measures

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.

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.

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.

4.3 Indication of any immediate medical attention and specific treatment needed.

None known.

Section 5 - Fire-Fighting Measures**5.1 Extinguishing Media**

Water Fog, Dry Chemical, and Carbon Dioxide Foam

5.2 Special hazards arising from the substance or mixture

None known.

5.3 Advice for firefighters

Use water spray to cool fire-exposed surfaces and to protect personnel. Shut off "fuel" to 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 chemical. 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-face piece operated in pressure demand or positive-pressure mode.

Section 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

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains or unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers. No special environmental precautions required.

6.3 Methods and material for containment and cleaning up

Put on appropriate protective gear including NIOSH/MSHA approved self-contained breathing apparatus, 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 3 for list of Hazardous Ingredients; Sections 8 for Exposure Controls; and Section 13 for Disposal.

Section 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, including any incompatibilities

Keep container(s) tightly closed and properly labeled. Store in cool, dry, well ventilated place away from heat, direct sunlight, strong oxidizers and any incompatibles. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet local 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. Avoid water contamination.

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.

Section 8 - Exposure Controls / Personal Protection
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8.1 Control parameters**Components with workplace control parameters**

Component	CAS-No.	Value	Control Parameters	Basis
Phenylmercuric oleate (as mercury)	104-60-9	TWA	0.01 mg/m ³	NIOSH
		STEL	0.03 mg/m ³	NIOSH
		TWA	0.01 mg/m ³	NIOSH, OSHA
		C	0.04 mg/m ³	OSHA
		IDLH	2 mg/m ³ (as Hg)	NIOSH

8.2 Exposure controls**Respiratory Protection**

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.

Hand Protection

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

Eye Protection

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.

Other Protective Clothing/Equipment

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

Comments

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

Section 9 - Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance:	White viscous liquid	Vapor pressure:	None (Polymeric Resin)
Odor:	Mild	Vapor density (Air=1):	>1
pH:	No data	Evaporation rate:	1.2
Flash Point:	>300°F	Solubility in water:	Negligible in water

Melting / freezing point:	No data	Specific Gravity (H₂O=1, at 4 °C):	No data
Low / high boiling point:	No data	Relative density:	No data
Upper flammability limits:	No data	Decomposition temperature:	No data
Lower flammability limits:	No data	Viscosity:	9000 centipoise

Section 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.

Section 11- Toxicological Information

11.1 Information on toxicological effects

Acute Toxicity

No data

Skin Corrosion/Irritation

No data

Serious Eye Damage/Irritation

No data

Respiratory/Skin Sensitization

No data

Germ Cell Mutagenicity

No data available

Carcinogenicity

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

Reproductive Toxicity

No data

Specific Target Organ Toxicity – Single Exposure

No data

Specific Target Organ Toxicity – Repeated Exposure

No data

Aspiration Hazard

No data

Chronic Exposure

No data

Potential Health Effects – Miscellaneous

No data

Section 12 - Ecological Information

12.1 Toxicity

No data available

12.2 Persistence and Degradability

No data available

12.3 Bioaccumulative 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

Section 13 - Disposal Considerations

13.1 Waste treatment methods

Under Resource Conservation and Recovery Act (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 as defined in 40 CFR Part 261. Waste management should be in full compliance with federal, state and local laws. Regulations may vary in various locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

Container disposal

Steel drums must be emptied and can be sent to a licensed drum reconditioner for reuse, a scrap metal dealer or an approved landfill. Do not attempt to refill or clean containers since residue is difficult to remove. Under no circumstances should empty drums be burned or cut open with gas or electric torch as toxic decomposition products may be liberated. Do not reuse empty containers

Section 14 - Transport Information

Classified by DOT, IATA and IMDG (for DOT only, PMC-724 and URE-BOND II containers less than 150 lb and PMC-726 containers less than 238 lb are not regulated).

	<i>Land transport (DOT)</i>	<i>Sea transport (IMDG)</i>	<i>Air transport (ICAO/IATA)</i>
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UN number:	3082	3082	3082
UN proper shipping name:	Environmentally hazardous substance, n.o.s. (Butyl Benzyl Phthalate Mixture)	Environmentally hazardous substance, n.o.s. (Butyl Benzyl Phthalate Mixture)	Environmentally hazardous substance, n.o.s. (Butyl Benzyl Phthalate Mixture)
Transport hazard class(s):	9	9	9
Packing group:	III	III	III
Environmental hazards:	Marine Pollutant	Marine Pollutant	Marine Pollutant
Special precautions for user:	N/A	N/A	N/A
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	N/A	N/A	N/A

Section 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 is subject to regulation under REACH. The product contains the following ingredient(s) listed on either the Candidate List or Authorization List for Substances of Very High Concern (SVHC):

Butyl Benzyl Phthalate 85-68-7

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.

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and community Right-to-Know Act of 1986) Sections 311 and 312

Immediate (Acute), Delayed (Chronic)

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313

<u>Component</u>	<u>CAS #</u>	<u>Concentration (wt %)</u>
4,4' Methylene bis(phenylisocyanate) (MDI)	101-68-8	25 – 50
Polymethylene polyphenyl isocyanates	9013-87-9	50 – 75

KEEP OUT OF REACH OF CHILDREN



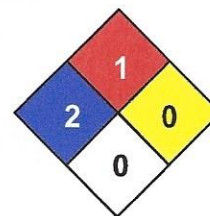
WARNING: Known to the State of CA to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

15.2 Chemical safety assessment

No chemical safety assessment has been carried out for this substance/mixture by the supplier.

16 - Other Information

HMIS	
H	2
F	0
R	0



NFPA

Revision: 2

Date Prepared: August 13, 2018

Abbreviations and acronyms

ACGIH-American Conference of Governmental Industrial Hygienists; ANSI-American National Standards Institute; Canadian TDG-Canadian Transportation of Dangerous Goods; CAS-Chemical Abstract Service; Chemtrec-Chemical Transportation Emergency Center (US); CHIP-Chemical Hazard Information and Packaging; DSL-Domestic Substances List; EC-Equivalent Concentration; EH40 (UK)-HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA-Emergency Planning and Community Right-To-Know Act; ESL-Effects screening levels; GHS-Globally Harmonized System of Classification and Labelling of Chemicals; HMIS-Hazardous Material Information Service; IATA-International Air Transport Association; IMDG-International Maritime Dangerous Goods Code; LC-Lethal Concentration; LD-Lethal Dose; NFPA-National Fire Protection Association; OEL-Occupational Exposure Limit; OSHA-Occupational Safety and Health Administration, US Dept. of Labor; PEL- Permissible Exposure Limit; SARA (Title III)-Superfund Amendments and Reauthorization Act; SARA 313-Superfund Amendments and Reauthorization Act, Section 313; SCBA-Self-Contained Breathing Apparatus; STEL-Short Term Exposure Limit; TCEQ-Texas Commission on Environmental Quality; TLV-Threshold Limit Value; TSCA-Toxic Substances Control Act Public Law 94-469; TWA-Time Weighted Value; US DOT-US Department of Transportation; WHMIS-Workplace Hazardous Materials Information System.

Disclaimer

The information contained in this Safety Data Sheet (SDS) is considered accurate as of the version date. However, no warranty is expressed or implied regarding the accuracy of the data. Since the use of this product is not within the control of Romanoff International Supply Corp, , it is the user's obligation to determine the suitability of the product for its intended application and assumes all risk and liability for its safe use.

This SDS is prepared to comply with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) as prescribed by the United States (US) Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS), and European Union Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 (REACH).

Classifications of the chemical in accordance with 29 CFR 1910.1200, signal word, hazard and precautionary statement(s), symbol(s) and other information are based on listed concentration of each hazardous ingredient. Unlisted ingredients are not "hazardous" per the OSHA Hazard Communication Standard (29 CFR 1910.1200), WHMIS and EC No 1907/2006 and are considered trade secrets under US Federal Law (29 CFR and 40 CFR), Canadian Law (Health Canada Legislation), and European Union Directives.