

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

Product Identifier

Product Name: Component for Polyurethane mold rubber
Synonyms: n/a
Trade Names: Liquacast Part B

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

Main Applications (non exhaustive list): Component for Polyurethane mold rubber.
For industrial / professional use only.

Details of the supplier of the Safety Data Sheet

Company Name: Castaldo
A division of: Goodwin Refractory Services Ltd.
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Newcastle under Lyme, Staffordshire, ST5 9JE, UK
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Emergency telephone number:

Emergency Telephone No. +44 (0)1782 663600
Available outside office hours? No

2. HAZARDS IDENTIFICATION

Classification:

Reproductive Toxicity: Category 1B
Specific Target Organ Toxicity Repeated Exposure: Category 2
Aquatic Toxicity Acute: Category 1
Aquatic Toxicity Chronic: Category 2

Label elements:



Signal word: Danger

Hazard statements:

H360: May damage fertility or the unborn child.

H373: May cause damage to organs (lungs or respiratory system) through prolonged or repeated exposure.

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

Precautionary statements:

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

P260: Do not breathe vapours, aerosols or mists.

P273: Avoid release to the environment.

P280: Wear protective gloves, protective clothing, eye protection and face protection.

P405: Store locked up.

P501: Dispose of contents and container in accordance with local regulations.

Supplemental Information:

May cause eye and skin irritation. Read and understand the hazard information on part A before using.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixture

	CAS #	%
Butyl benzyl phthalate (BBP)	85-68-7	30-99
Phenylmercury compound	Unknown	≤0.4

4. FIRST AID MEASURES

Description of first aid measures:

- Eye Contact:** Rinse thoroughly with plenty of water for at least 15 minutes, holding eye lids open to be sure the material is washed out. Get prompt medical attention.
- Inhalation:** Move exposed person to fresh air. Give artificial respiration if needed. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.
- Ingestion:** Do not induce vomiting unless directed to do so by medical personnel. Get medical attention.
- Skin Contact:** Remove contaminated clothing. Wash contact area thoroughly with soap and water. Get medical attention if irritation or symptoms of exposure develop. Launder clothing before reuse. Discard items that cannot be decontaminated.

Most important symptoms/ effects: May cause damage to nervous system through prolonged or repeated exposure.

Indication of any immediate medical attention and special treatment needed: Immediate medical attention is not required.

5. FIRE FIGHTING MEASURES

Extinguishing media: Use water fog, foam, carbon dioxide or dry chemical. Do not use solid water stream. Solid stream of water into hot product may cause violent steam generation or eruption.

Special hazards arising from the substance or mixture: Not classified as flammable or combustible. Product will burn under fire conditions.

Advice for firefighters: Wear positive pressure, self-contained breathing apparatus and full-body protective clothing. Cool fire-exposed containers with water.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective and emergency procedures: Remove all ignition sources. Clear non-emergency personnel from the area. Wear appropriate protective clothing to prevent eye and skin contact and avoid breathing vapours. Caution- spill area may be slippery.

Methods and material for containment and cleaning up:
Cover with an inert absorbent material and collect into an appropriate container for disposal. Avoid release to the environment. Report spills and releases as required to appropriate authorities.

7. HANDLING AND STORAGE

Precautions for safe handling:
Use with adequate ventilation. Avoid contact with the eyes, skin and clothing. Wash thoroughly after handling. Do not eat, drink or smoke in the work area. Keep container closed when not in use.

Precautions for safe storage:
Store indoors at temperatures below 120F. Store in original containers. Avoid getting moisture into containers. Keep containers tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure limits:

Chemical name	Exposure limits
Butyl benzyl phthalate	5 mg/m3 TWA UK EH40
Aryl mercury compound (as Hg)	0.1 mg/m3 (Ceiling) OSHA PEL
	0.1 mg/m3 TWA ACGIH TLV

Ventilation: Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

Respiratory protection: If needed (i.e., ventilation is inadequate), use a NIOSH– approved air– purifying, tight- fitting, half– face respirator with organic vapor cartridges. Respirator selection and use should be based on containment type, form and concentration. For higher exposures or in an emergency, use a supplied– air respirator.

Skin protection: Wear impervious gloves, such as butyl rubber or nitrile rubber.

Eye protection: Wear chemical safety goggles / glasses.

Other protective measures: An eye wash facility and washing facility should be available in the work area. Avoid skin contact. Follow good industrial hygiene practices.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White opaque liquid
Odor:	Mild
Odor threshold:	No data available
pH	Not applicable
Melting point/ freezing point:	No data available
Initial Boiling point:	No data available
Flash point:	>128C (262F)
Evaporation rate:	No data available
Flammability:	No data available
Upper/ lower flammability exposure limit:	No data available
Vapour pressure:	<1mm Hg @ 25C
Relative density:	1.4 @ 25C
Water solubility:	Insoluble in water
Partition coefficient:	No data available
Auto ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	80,000 cP
Explosive Properties:	No data available
Oxidising properties:	No data available

10. STABILITY AND REACTIVITY

Reactivity: Not normally reactive.

Chemical stability: Stable under recommended conditions.

Possibility of hazardous reactions: Reaction with strong oxidizers generates heat.

Conditions to avoid: Avoid excessive heat.

Incompatible materials: Avoid contact with strong oxidizers.

Hazardous decomposition products: Thermal decomposition will generate oxides of carbon and mercury compounds.

11. TOXICOLOGY INFORMATION

Information on toxicology effects:

Acute toxicity values: Phenylmercury compound: Oral rat LD50 is 50-300 mg/kg.

Germ Cell Mutagenicity: Components are not known mutagens. Butyl benzyl phthalate was negative in bacterial assay for mutagenicity.

Carcinogenicity: Components are not designated as carcinogens by NTP, IARC, or OSHA.

Reproductive toxicity: Butyl benzyl phthalate has been found to adversely affect reproductive organs and fetal development in experimental animal studies. Based on laboratory studies, BBP is presumed to be a human reproductive toxicant.

Specific Target Organ Toxicity:

Single Exposure: No data available.

Repeated exposure: Contains an inorganic mercury compound which may cause damage to the central nervous system and kidneys.

12. ECOLOGICAL INFORMATION

Eco toxicity: Based on concentration of Butyl benzyl phthalate and mercury compound, product is considered dangerous to aquatic life.

Persistence and Degradability: Not readily biodegradable.

Bioaccumulative Potential: No data available.

Mobility in soil: No data available.

13. DISPOSAL CONSIDERATIONS

Dispose according to local, state and federal regulations. In the U.S, upon disposal, this product (Uncured), are characteristic of RCRA hazardous waste (D009– owing to mercury content) as defined in 40 CFR 261. Cured materials may be RCRA– regulated owing to mercury content.

14. TRANSPORT INFORMATION

US DOT By Ground: Packages of 5-gal and smaller are not regulated as hazardous materials for ground transport. For 55– gal drums; RQ, UN 3082, Environmentally hazardous substance, liquid n.o.s (BBP), 9, III)

By vessel or IMDG: UN 3082 Environmentally hazardous substance, liquid n.o.s (BBP), 9, III)

IATA: UN 3082 Environmentally hazardous substance, liquid n.o.s (BBP), 9, III)

15. REGULATORY INFORMATION

CERCLA 103 Reportable quantity: The RQ for BBP is 100 lb. 55- gal of Liquacast Part B contains >100 lb BBP.

SARA Title III:

Section 311/312: Acute health, Chronic health

Section 313 Toxic chemicals: This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements:

Mercury compound: N458 ≤0.4%

EPA Toxic substances control act (TSCA) Status: All of the components of this product are listed on the TSCA inventory.

State Regulations:

California Proposition 65: WARNING: This product can expose you to chemicals including BBP and Phenylmercuric compounds, which are known to the state of California to cause reproductive harm.

16. OTHER INFORMATION

Training advice: Train personnel using this product in proper chemical handling, engineering controls and protective equipment.

Recommended uses and restrictions: This product is intended for industrial / professional use only.

Revision History:

09/07/2020– Rev 1 (New document)

Disclaimer:

Such information given on this safety data sheet is to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no representation, warranty or guarantee is made as its accuracy, reliability or completeness. It is the users responsibility to satisfy itself as to the suitability and completeness of such information for their own particular use.