SAFETY DATA SHEET (SDS)

Polyrheo-Blown Castor Oil **SDS Preparation date 06/03/202**

Section 1. Identification	
Product identifier	**Polyrheo-Blown Castor Oil**
Other means of identification	**Oxidized or polymerized Castor oil**
Recommended use and restrictions on use	**Ingredient in the manufacturing of Paint, Varnishes, lubricants, Plasticizer and Inks etc** **Restrictions : Not known.**
CAS Number	**68187-84-8**
Initial supplier identifier	**POLYRHEO** **2925 E Ontario St, Philadelphia,** **PA 19134, USA.** **Tel : + 1 215-739-1291 / Fax: + 1 215-425-3370.**
Emergency telephone number	**Canada – CANUTEC 24-hour# 613-996-6666.**

Section 2. Hazard identification

HMIS rating: Health –1, Flammability – 1, Reactivity – 0.
EC Classification: Not classified as Hazardous.
Whmis (Canada): Not controlled
Transportation : Not regulated

Classification of the substance or mixture:
(According to regulation (EC) No.1272/2008., not classified as hazardous under this directive).
Signal word: Not Required
Hazard precautions : Not classified as hazardous.

Lablel elements:
Prevention precations Note:
These precautionary statements are not prescribed by directive 1272/2008 as this product is not classified as hazardous under this directive. Wash hands thoroughly after handling with soap and water. Wear protective gloves, protective clothing, eye protection and face protection. If swallowed, in eyes, on skin or inhaled call a poison center or doctor/ physician if you feel unwell. If inhaled, remove victim to fresh air and keep at rest in a comfortable position for breathing. Take off contaminated clothing before reuse. Store in well - ventilated place. Keep container tightly closed.
First aid precautions Not Required
Storage precautions Not Required
Disposal precautions : Not Required
Single exposure target organ: Not Applicable
Repeated exposure target organ Not Applicable

OTHER HAZARD
Signs and symptoms of potential over exposure
May cause irritation to the eyes on contact; may cause skin irritation, especially if contact is prolonged or repeated.

Primary route(s) of exposure: Skin contact, Eye contact.
Medical conditions aggravated by exposure : No data found.

Section 3. Composition/information on ingredients

Composition	Cas No/ Einecs No	Content	EU Symbol	Risk Phrases
Blown Castor oil	68187 - 84 - 8 / 269 -128 - 4	100%	Not classified	None

Section 4. First-aid measures

4.1 Description of first aid measures:
General:
No hazards which require special first aid measures.
When symptoms persist or in all cases of doubt seek medical attention.
Inhalation:
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
If respiratory symptoms persist, get medical advice/attention.
Skin Contact:
IF ON SKIN: Wash with plenty of soap and water.
Take off contaminated clothing and wash it before reuse. If skin irritation occurs, get medical advice/attention.
IF IN EYES: Immediately flush eyes with running water for several minutes, holding eyelids open and occasionally lifting the upper and lower lids.
Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. If eye irritation persists, get medical advice/attention**.**
Ingestion:
IF SWALLOWED: Rinse mouth. Get medical advice/attention in case of consumption in large quantities or if you feel unwell.
4.2 Most important symptoms and effects, both acute and delayed
ACUTE My cause irritation to the eyes on contact; may cause skin irritation, especially if contact is prolonged or repeated.
Delayed Effects:
None known.
4.3 Indication of any immediate medical attention and special treatment needed:
Thermal exposure:
Not Applicable.
Advice to Doctor:
Treat Sumptomatically.
Medical Conditions Aggravated by Exposure:
No informatoin available.

Section 5. Fire-fighting measures

General Measures:
If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is out.
Flammability Conditions:
May burn but does not ignite readily.
Extinguishing media:
Alcohol foam, carbon dioxide (co2), dry chemicals.
Special hazards arising from the substance or mixture:
Hazardous products of combustion carbon dioxide, carbon monoxide.
Potential for dust explosion:

Not applicable.

Special flammability hazards:

Advice for firefighters.

Hazardous Products of Combustion:

Fire may produce irritating and/or toxic gases, including Carbon monoxide, Carbon dioxide and dense smoke. Contain runoff from fire control or dilution water - Runoff may cause pollution.

Personal Protective Equipment:

Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

Basic firefighting guidance:

Material may burn but does not ignite readily. Avoid high temperatures.

As in any fire, wear self-contained breathing apparatus pressure – demand MSHA/NIOSH (approved or equivalent) and full protective gear. Frothing can occur if a water stream is used. Evacuate the area and fight fire from a safe distance.

Flammability classification (OSHA):

Non – flammable.

Section 6. Accidental release measures

Personal precautions, protective equipement and emergency procedure:

Evacuation procedure isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Special instructions:

Remove all contaminated clothing to prevent further absorption. Decontaminate affected Personnel using the first aid procedures in section 4. Leather shoes that have been saturated must be discarded.

Environmental precautions:

Prevent releases to soils, drains, sewers and waterways.

Methods and material for containment and cleaning up.

Containment techniques and clean-up procedure scrub area with detergent and water, isolate hazard area. Keep Unnecessary and unprotected personnel from entering. Prevent skin/eye contact. Large spills: shut off leak if safe to do so.

Carefully scoop up and place into appropriate disposal container. For small spills, use suitable absorbent material and collect for disposal later.

Special reporting requirement:

Not applicable

Section 7. Handling and storage

Precautions for safe handling for unique hazards:

Not applicable.

Precaution to minimize risk:

Wear appropriate protective equipment when performing maintenance on contaminated equipment. Wash hands thoroughly before eating or smoking after handling this material. Wash hands thoroughly after handling this material.

Conditional for safe storage, including any incompatibilities:

Incompatibilities storage precations & recommendations store in a cool dry place keep away from strong acids, strong bases and oxidizing agents. Use with adequate ventilation.

Containers:

Keep in the original container.

Incompatibilities with materials of construction:

None known.

Section 8. Exposure controls/Personal protection

8.1 Control parameters:

OSHA PEL:

Not available.

ACGIH TLV:

Not available.

Exposure controls:

Personal protective equipment:

A NIOSH approved chemical cartridge respirator or supplied air breathing.

Equipment should be used as conditions necessitate. Chemical goggles should be always worn; use face shields as Conditional warrant. Pervious clothing and boots.

Respirator caution:

Observe OSHA regulations for respirator use. Air purifying respirators must not be used in oxygen deficient atmospheres.

Ventilation:

All operations should be conducted in well ventilated conditions. Local exhaust ventilation should be provided.

Other engineering control:

All appropriate engineering controls should be used to minimize exposure potential. Use Exhaust ventilation to keep airborne concentrations below exposure limit.

Thermal hazards:

Not applicable.

Work Hygienic Practices:

Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Take off contaminated clothing and wash it before reuse.

Special Hazards Precautions:

No information available.

Additive or Synergistics effects:

Not known.

Section 9. Physical and chemical properties

PROPERTIES	SPECIFICATIONS
Appearance	Golden yellow, very viscous,
Color	Dark Reddish-Yellow
Odor	Mild odor
Odor threshold	Not available
Molecular formula	Not available
Molecular weight	Not available
Boiling point	Not available
Vapour pressure	Not available
Specific gravity (water=1)	0.975 – 1.100
Flash point °C/°F (Cleveland Open Cup)	260-500
Solubility in water	Insoluble
pH	Not available
Viscosity °C/°F Poise (as per customer requirement)	40-104
Evaporation rate (butyl acetate = 1) (Max)	1
Vapor density (air=1)	Heavier
Freezing / Melting point	Not available

Octanol/water coefficient	Not available
Viscosity (cSt)	Not measured
Autoignition temperature °C/°F	449-840
Flammable limits	Not available

Section 10. Stability and reactivity

10.1 Reactivity:
Not classified as dangerously reactive.
10.2 Chemical stability:
The material is stable.
10.3 Possibility of hazardous reactions:
Will not occur.
10.4 Conditions to avoid:
Strong Oxidizers.
10.5 Incompatible materials:
Strong Oxidizing agents.
10.6 Hazardous decomposition products:
Fire/decomposition may produce irritating and/or toxic gases, including Carbon monoxide, Carbon dioxide, dense smoke.

Section 11. Toxicological information

11.1 Information on Toxicological Effects:
Acute Oral LD 50:
Oral LD50 (rat) > 5000 mg/kg.
Acute Dermal LD 50:
Dermal LD50 (rabbit) > 2000 mg/kg.
Acute Inhalation LD 50:
Not toxic by inhalation route.
Acute Oral LD 50:
Not available.
Skin irritation:
Not toxic by dermal route. Not expected to be irritating to skin. Not a sensitiser.
Eye irritation:
Non-Irritating to eyes.
Ingestion:
Not toxic by oral route. Ingestion is not likely to be a primary route of exposure.
Carcinogenicity:
None.
Mutagenicity:
Not available.

Section 12. Ecological information

Toxicity:
Not available.
Ecotosicity:
Aquatic toxicity:- LC50, Fish: >100 mg
Persistence and degradability:
Not available.
Bioaccumulative potential:

Not available.

Mobility in soil

Not available.

Environmental Fate:

Prevent entry into soils, drains and waterways.

Other adverse effects:

Not available

Section 13. Disposal considerations

Us epa waste number:

Not Applicable.

Waste classification (US):

Non-Hazardous.

Waste disposal Dispose of material in accordance with standard practice for disposal of potentially hazardous material as required by applicable international, national, regional, state or local laws. Do not dump into any sea waters, on the ground, or into any body of water. For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used. Note that disposal regulations may also apply to empty containers and equipment reinstates.

Section 14. Transport information

UN Number : Not Applicable.

UN proper shipping name: Castor Oil, Oxidized.

Transport hazard class: Not Applicable.

Packing group: Not Applicable.

Environmental hazards: Not Applicable.

Other transport related information :

Land Transport (Australia): Not regulated for transport according to the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code).

Land Transport (New Zealand): Not regulated for transport.

Land Transport (United States of America): Not regulated for transport.

Sea Transport (IMDG Code): Not classified as dangerous goods.

Air Transport (IATA DGR): Not regulated for transport.

Section 15. Regulatory information

Regulatory Overview :

OSHA HAZARDS:

Not Applicable

WHMIS CLASSIFICATION:

This product is not classified as a controlled product under Canadian Controlled Products regulations.

CHEMICAL INVENTORY LISTS	STATUS
TSCA	Yes
EINECS	Yes
Canada (DSL/NDSL)	DSL
Taiwan GHS classification	Not classified
Indonesia GHS classification	Not classified
New Zealand GHS classification	Not classified
Japan GHS classification	Not Classified

KOREA (MOL) GHS CLASSIFICATION	Not Classified
AUSTRALIA GHS CLASSIFICATION	Not Classified
CHEMICAL SAFETY ASSESSMENT	Not Applicable
CHEMICAL INVENTORY LISTS STATUS	
Philippines	Yes
Switzerland	No
China	Yes
New Zealand	Present
Australia	Yes
Korea	KE-27520
Japan	No

Section 16. Other information

isclaimer:

Information provided in this Safety Data Sheet is correct to the best knowledge and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.