Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Section 1: Identification

Product Name POLYOXYL 40 HYDROGENATED CASTOR OIL USP
Commercial Name Castor oil, hydrogenated, ethoxylated
Product Use Polymer
Restrictions On Use N/A

Product Code 30-4996

Company
PCCA
9901 South Wilcrest
Houston, TX 77099
Phone: 1-800-331-2498
Fax: 1-800-874-5760

In case of emergency contact:
CHEMTREC (24hr) 1-800-424-9300

Section 2: Hazard(s) Identification

OSHA Haz Com: CFR 1910.1200 Not available.

Signal Word NON-HAZARDOUS

Hazard Statement(s) Not available.

Pictogram(s) or Symbol(s)

Precautionary Statement(s):

Prevention Not available.
Response Not available.
Storage Not available.
Disposal Not available.

Section 3: Composition/Information on Ingredients

Substance/Mixture Substance
Components
% By Weight >=75%=<=100.0%
CAS# 61788-85-0
Molecular Weight N/A
Chemical Formula N/A
Synonym(s) N/A

Mixtures

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
castor oil, hydrogenated, ethoxylated	61788-85-0	>=75%=<=100.(	N/A	N/A

Section 4: First-Aid Measures

Inhalation	If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.
Skin Contact	After contact with skin, wash immediately with plenty of water. If irritation develops, seek medical attention.
Eye Contact	Wash affected eyes for at least 15minutes under running water with eyelids held open. Seek medical attention if necessary
Ingestion	Rinse mouth and then drink plenty of water
Symptoms/Effects	
Acute	No significant symptoms are expected due to the non classification of the product
Delayed	No hazard is expected under intended use and appropriate handling

Immediate Medical Attention

Note to physician: Treatment- Treat symptomatically

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media

Water spray, foam, carbon dioxide, dry powder

Unsuitable Extinguishing Media

N/A

Products of Combustion

harmful vapours Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Firefighters Special Equipment and Precautions

Protective equipment for fire-fighting: Firefighters should be equipped with self-contained breathing apparatus and turn-out gear. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Use personal protective clothing. Environmental precautions: Do not discharge into drains/surface waters/groundwater. Methods and material for containment and cleaning up: For small amounts: Pick up with suitable appliance and dispose of. For large amounts: Pick up with suitable appliance and dispose of. Dispose of absorbed material in accordance with regulations.

Section 7: Handling and Storage

Precautions for safe handling: Handle in accordance with good industrial hygiene and safety practice. Protection against fire and explosion: Take precautionary measures against static discharges. Avoid all sources of ignition: heat, sparks, open flame. Conditions for safe storage, including any incompatibilities: No applicable information available. Suitable materials for containers: glass, High density polyethylene (HDPE), Low density polyethylene (LDPE), Stove-lacquer RDL 50, tinned carbon steel (Tinplate) Further information on storage conditions: Keep container tightly closed in a cool, well-ventilated place. Storage stability: Storage temperature: <= 25 °C Protect from temperatures above: 25 °C Properties of the product change reversibly on exceeding the limit temperature.

Section 8: Exposure Controls/Personal Protection

Exposure Limits	N/A
Engineering Controls	N/A
Personal Protection	Respiratory protection: Respiratory protection in case of vapour/aerosol release. Hand protection: Chemical resistant protective gloves Eye protection: Safety glasses with side-shields. Body protection: Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit. General safety and hygiene measures: Handle in accordance with good industrial hygiene and safety practice. No eating, drinking, smoking or tobacco use at the place of work. Handle in accordance with good industrial hygiene and safety practice.

Section 9: Physical and Chemical Properties

Appearance	Pasty, white to slightly yellow
Odor	almost odorless
Odor Threshold	not determined

Melting Point	16-26C	**pH**	6.0-7.0 (100g/l, 2C)
Freezing Point	N/A	**Vapor Pressure**	not determined
Boiling Point/Range	N/A	**Vapor Density**	not determined
Decomposition temperature	Thermal decomposition: app	**Viscosity**	not determined
Partition Coefficient: n-octanol/water	-0.76	**Evaporation Rate**	Value can be approximated from H
Flash Point	242C	**Autoignition temperature**	375C
Flammability	not flammable	**Flammability or Explosive Limits:**	
		Lower	For solids not relevant for classification and labelling
		Upper	For solids not relevant for classifcation and labelling

Solubility(ies)	>490 g/l (23C); Miscibility with water - Soluble
Other	If necessary, inforamtion on other physical and chemical parameters is indicated in this section. No further information available.

Section 10: Stability and Reactivity

Reactivity	No hazardous reactions if stored and handled as prescribed/indicated
Chemical Stability	The product is stable if stored and handled as prescribed/indicated
Hazardous Polymerization	No hazardous reactions if stored and handled as prescribed/indicated.
Conditions to Avoid	Avoid all sourced of ignition: heat, sparks, open flame.
Incompatible Materials	No substances known that should be avoided
Hazardous Decomposition Products	No hazardous decomplosition products if stored and handled as prescribed.indicated. Thermal decomposition: approx. 300C

Section 11: Toxicological Information

RTECS N/A

Acute Toxicity

Assessment of acute toxicity:Virtually nontoxic after a single ingestion. Virtually nontoxic by inhalation. Inhalation-risk test (IRT): No mortality within 8 hours as shown in animal studies. The inhalation of a highly saturated vaopr=air mixture represents no acute hazard Oral: Type of value : LD50 Species: rat Value: >20000 mg/kg Inhalation: Type of value: LC50 Species: rat Value:.2.06 mg/l Exposure time: 4h Specied: rat Exposure time: 8h Inhalation-risk test (IRT): No mortality within 8 hours as shown in animal studies. The inhalation of a highly saturated vapor-air mixture represents no acute hazard Dermal:No applicable information available Assessment other acute effects: Assessment of STOT single: Based on available Data, the classification criteria are not meet Irritation/corrosion: Assessment of irritating effects: Not irritating to the skin. Not irritating to the eyes Skin: Species: Rabbit Results: Non-irritant Method:OECD Guideline 404 Eye: Species : rabbit Result: Non irritant

Skin Corrosion/Irritation

Irritation/corrosion: Assessment of irritating effects: Not irritating to the skin. Not irritating to the eyes

Serious Eye Damage/Irritation

Skin sensitizing effects were not observed in animal studies. Guinea pig maximization test. Specied:guinea pig. Results: Non-sensitizing

Respiratory or Skin Sensitization

N/A

Germ Cell Mutagenicity

Assessment of mutagenicity: In the majority of studies performed with microorganisms and in mammalian cell culture, a mutagenic effect was not found. A mutagenic effect was also not oberved in vivo test

Carcinogenicity
Assessment of carcinogenicity: The chemical structures does not suggest a specifc alert for such an effect

Reproductive Toxicity
Assessment of reproduction toxicity: The chemical structure does not suggest a specific alert for such an effect

Routes of Entry
Routes of entry for solids and liquids are ingestion and inhalation,but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases

Symptoms Related to Exposure
No significant symptoms are expected due to the non-classification of the product

Potential Health Effects
N/A

Target Organ(s) Repeated dose toxicity: Assessment of repeated dose toxicity: The inforamtion available on the product provided nc

Section 12: Ecological Information

Ecotoxicity
Aquatic toxicity: There is a high probability that the product is not acutely harmful to aquatic organisms. The inhaibityion of the degradation activity of activated sludge is not anticipated with introduced to biological treatment plants in appropriate low concentrations. Toxicity to fish: LC50(48h)> 10,000mg/l , Oryzias latiped (YIK S 0102-1974 ITEM 55, static) Limit concentration test only (LIMIT test). The details of the toxic effect related to the nominal concentration. Aquatic invertebrates: EC50 (48h) >100 mg/l,Daphnia magna (OECD Guideline 202,part1, static) The details of the toxic effect relate to the nominal concentration Aquatic plants: EC (72h) >100mg/l (growth rate), Desmodesums subspicatus (OECD Guidleine 201, static) The details of the toxic effect relate to the nominal concentration.

Persistance and Degradability
Assessment biodegradation and elimination (H20):Readily biodegradable (According to OECD criteria) Elimination ifnormation: 80-90% BOD of the ThOD (28d) (OECD Guideline 301 F) (aerobic, activated sludge, domestic) Readily biodegradable (according to OECD criteria)

Bioaccumulative Potential
Not to be expected

Mobility in Soil
Adsorption to solid soil phase is not expected

Other Adverse Effects
N/A

Section 13: Disposal Considerations

Waste Disposal
Dispose of in accordance with national, state and local regulations. It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA

Disposal of Container
Uncontaminated packaging can be re-used. Packs that cannot be cleaned should be disposed of in the same manner as the contents

Other Considerations
N/A

Section 14: Transport Information

DOT Classification
Land transport: USDOT: Not classified as a dangerous good under transport regulations Sea transport: IMDG: Not classified as a dangerous good under transport regulations Air transport: IATA/ICAO: Not classified as a dangerous good under transport regualtions

Section 15: Regulatory Information

Regulations

Federal Regualtions: Registration status: Chemical: TSCA,US released/listed Cosmetic:TSCA,US released/exempt Pharma:TSCA,US released/exempt EPCRA 311/312 (Hazard categories): Not hazardous NFPA Hazard codes: Health: 1 Fire:1 Reactivity:0 Special HMIS III rating: Health:1 Flammability:1 Physical hazard:0

Other
N/A

Section 16: Other Information

N/A