

Safety Data Sheet: Polyglycerol Polyricinoleate**1. SECTION 1: Identification of the substance/Preparation & Company/Undertaking**

Brand Name:	DynaVisc 888HV
Substance Name:	Polyglycerol Polyricinoleate
Chemical Name:	1,2,3-Propanetriol, homopolymer, (9Z, 12R)-12-hydroxy-9-octadecanoate
CAS Number:	29894-35-7
ECHA InfoCard:	100.117.614
PubChem CID:	9843407
EC Number:	E 476
Product Code:	DynaVisc 888HV
Recommended use:	Chocolate, Oleo-chemicals, Pan-release emulsions, Low-fat spreads
Restrictions on use:	For manufacturing use only
Manufacturer's Name:	Savannah Surfactants Limited, 283A Kundaim Industrial Estate, Kundaim, Goa 403115, India Email: anibajaj@savannahgoa.com Phone: +91 832 2395111 Emergency Phone: +91 9158444631

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2. SECTION 2: Hazard Identification

Classification of DynaVisc 888HV in accordance with UN GHS/EU Regulation EC 231/2012

Hazard Class and Category Code(s): Not classified as dangerous for supply/use

Hazard statement code(s): None

Precautionary statements: None

Pictogram: No symbol required

Signal word: None

Additional label required: None

3. SECTION 3: Composition

Name	CAS Number	EC Number	GHS Hazard class & Category code	Percent (w/w)
Polyglycerol Polyricinoleate	29894-35-7	E 476	Not classified as Hazardous	100

4. SECTION 4: First Aid Measures

4.1 Description of first aid measure

Inhalation	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If signs/symptoms continue, get medical attention.
Skin contact	Wash skin with soap and water
Eye contact	Flush eyes with water for at least 15 minutes. Get medical attention if eye irritation develops or persists.
Ingestion	Wash out mouth with water. Do not induce vomiting.

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4.2 Most important symptoms and effects, both acute and delayed

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

4.3 Indication of any immediate medical attention and special treatment needed

Unlikely to be required but if necessary treat symptomatically.

5. SECTION 5: Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media Water, foam, water spray, dry powder or carbon dioxide.

Unsuitable extinguishing media None.

5.2 Special hazards arising from the substance or mixture

Combustible material. Decomposes in a fire giving off toxic fumes: Carbon dioxide.

5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

6. SECTION 6: Accidental Release Measures

6.1 Personal Precautions, protective equipment and emergency procedures

Provide adequate ventilation. Wear suitable gloves if prolonged skin contact is likely. Evacuate if necessary. Stop leak if safe to do so.

6.2 Environmental precautions

Do not release large quantities into surface water or into drains.

6.3 Methods and material for containment and cleaning up

Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a lidded container for disposal or recovery

6.4 References to other sections

See section 8, 13

6.5 Additional information

None

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7. SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Ensure adequate ventilation. Avoid contact with skin and eyes. Wash hands and exposed skin after use. Do not eat, drink or smoke at the workplace.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a well-ventilated place.

Storage temperature

Ambient.

Storage life

Stable under normal conditions.

Incompatible materials

Oxidising agents, strong acids, chlorine, fluorine, alcohols.

7.3 Specific end use(s)

Contact supplier for further information

8. SECTION 8: Exposure control/Personal protection

8.1 Control parameters

8.1.1 Occupational Exposure Limits

Check for country-specific OELs

8.1.2 PNECs and DNELs

DNEL/DMEL	Oral	Inhalation	Dermal
Industry- Long Term- Local effects		55 mg/m ³	
Industry- Long Term- Systemic effects		55 mg/m ³	833 mg/kg
Industry- Short Term- Local effects			
Industry- Short Term- Systemic effects			
Consumer- Long Term- Local effects		33 mg/m ³	
Consumer- Long Term- Systemic effects	500 mg/kg	12 mg/kg	500 mg/kg
Consumer- Short Term- Local effects			
Consumer- Short Term- Systemic effects			
Environment	PNEC		
Aquatic compartment (including sediment)			
Terrestrial Compartment	Sewage treatment plant: 10 mg/l		
Atmospheric Compartment			

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8.2 Exposure controls

8.2.1 Appropriate engineering controls Ensure adequate ventilation

8.2.2 Personal protection equipment
Eye protection

Wear protective eye glasses for protection against liquid splashes.



Skin protection

Wear impervious gloves (EN374). Breakthrough time of the glove material: refer to the information provided by the gloves' producer.



Respiratory protection

Normally no personal respiratory protection is necessary. Aerosol formation: Gas filtering respirator (DIN EN 14387).



Thermal Hazards

Not applicable.

8.2.3 Environmental exposure controls

Do not release large quantities into surface water or into drains.

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9. Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Viscous Liquid
	Colour: Yellowish to Amber
Odour	Typical mild castor oil odour
Odour threshold	Not known
pH	6-8 @ 100g/l@20°C
Melting point/ freezing point	Decomposition
Initial boiling point and boiling range	Decomposition
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive limits	Non-flammable
Vapour density	No data available
Density (g/ml)	Not known
Relative density	0.95 gm/ml@25°C
Solubility(ies)	Solubility (water): >0.001 g/l @ 20°C Solubility (other): Not known
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	ca. 400°C
Decomposition temperature (°C)	>275°C
Viscosity	700-1000cps @60°C
Explosive properties	Not explosive
Oxidising properties	Not oxidising

9.2 Other information

Kinematic Viscosity	No data available
Surface tension	No data available

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10. Section 10: Stability and reactivity

10.1 Reactivity

Stable under normal conditions

10.2 Chemical stability

Stable under normal conditions

10.3 Possibility of hazardous reactions

Explosive when mixed with oxidizing substances

10.4 Conditions to avoid

Heat and direct sunlight

10.5 Incompatible materials

Oxidizing agents, strong acids, chlorine, fluorine, alcohols

10.6 Hazardous decomposition products

Thermal decomposition will evolve: Carbon monoxide

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11.Section 11: Toxicological Information

11.1 Information on toxicological effects

Acute toxicity- Ingestion	Not classified LD50 (24 hour) (rat): >2000 mg/kg
Acute toxicity- Skin contact	Not classified
Acute toxicity- Inhalation	Not classified LD50 (rabbit): >18.7 g/kg
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Skin sensitization data	Not classified
Respiratory sensitization data	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Oral NOAEL (rat) (mouse): 2500 mg/kg (Polyglycerol Polyricinoleate) Not classified Oral NOAEL (rat): 2000 mg/kg Effects on fertility (Polyglycerol Polyricinoleate) NOAEL (rat): 1310 mg/kg Developmental toxicity
Lactation	Not classified
STOT- single exposure	Not classified
STOT- repeated exposure	Not classified Oral NOAEL (rat): 10000 mg/kg Inhalation NOAEL (rat): 165 µg/kg
Aspiration hazard	Not classified

11.2 Other information

Not known

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12. Section 12: Ecological information

12.1 Toxicity

Toxicity- Aquatic Invertebrates	Daphnia magna EC50 (48 hour): >1000 mg/l
Toxicity- Fish	Poecilia reticulata LC50 (96 hour): >1000 mg/l
Toxicity- Algae	Selenastrum capricornicum EC50 (96 hour): >1000 mg/l
Toxicity- Sediment Compartment	Not classified
Toxicity- Terrestrial Compartment	Not classified

12.2 Persistence and degradation

Abiotic degradation
Hydrolyses, Water
half-life: >1y@25°C@pH: 4-9

Biodegradation
Readily biodegradable. (Tested according to: Closed bottle test,
Degradation, after 28 d: >60%)

12.3 Bioaccumulative potential

Bioconcentration factor (BCF): Log Pow: <3
The substance has low potential for bioaccumulation.

12.4 Mobility in soil

Soil, sediment
Log Koc: <1.26 @ pH 7

12.5 Results of PBT and vPvB assessment

Not classified as PBT or vPvB

12.6 Other adverse effects

Not known

13. Section 13: Disposal considerations

13.1 Water treatment methods

Refer to manufacturer/supplier for information on recovery/recycling. The organic ingredients can be biodegraded in a sewage plant after neutralization. Incineration by an approved method could be considered.

13.2 Additional information

Disposal should be in accordance with local, state and national legislation

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14. Section 14: Transport Information

Not classified as hazardous for transport

DOT classification	Not a DOT controlled material (United States)
Identification	Not applicable
Special provisions for transport	Not applicable
Proper shipping name	Not regulated by IATA/ICAO/INDG/DOT
DOT shipping class	Not regulated by IATA/ICAO/INDG/DOT
DOT Hazard Classification	Not regulated by IATA/ICAO/INDG/DOT
DOT placard	Not regulated by IATA/ICAO/INDG/DOT
Identification number	Not regulated by IATA/ICAO/INDG/DOT
DOT markings	Not regulated by IATA/ICAO/INDG/DOT
Hazardous substance/RQ	Not regulated by IATA/ICAO/INDG/DOT

There are no special transport requirements for this product.

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15.Section 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

<u>European Regulations</u>	<u>Authorisations and/or restrictions on use</u>
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Candidate list of substances of very high concern for authorisation	Not listed
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REACH: Annex XIV list of substances subject to authorisation	Not listed
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REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Not listed
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Community Rolling Action Plan (CoRAP)	Not listed
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Regulation (EC) No 850/2004 of the European Parliament and the Council of persistent organic pollutants	Not listed
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Regulation (EC) No 2037/2000 on substances that deplete the ozone layer	Not listed
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Regulation (EU) No 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals	Not listed
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National regulations

Other	Not known
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15.2 Chemical Safety Assessment

REACH chemical assessment not applicable to food emulsifiers

15.3 Inventory Status

Listed in: United States (TSCA), Australia (AICS), Canada (DSL,NDSL), China (IECSC), Japan (ENCS), South Korea (KECI), New Zealand Inventory (NZLoC), Philippines (PICCS), Taiwan (TCSI)

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16. Section 16: Other information

The following sections contain revisions or new statements: 1-16

LEGEND

Hazard Pictogram(s): None

Hazard Statement(s): None

Precautionary Statement(s): None

Acronyms

CAS: Chemical Abstracts Service
 CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
 DNEL: Derived No Effect Limit
 EC: European Community
 EINECS: European Inventory of Existing Commercial Chemical Substances
 LTEL: Long term exposure limit
 PBT: Persistent, Bioaccumulative and Toxic
 PNEC: Predicted No Effect Concentration
 REACH: Registration, Evaluation, Authorisation and Restrictions of Chemicals
 STEL: Short term exposure limit
 STOT: Specific Target Organ Toxicity
 vPvB: very Persistent and very Bioaccumulative

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