

Registered office: Pirojshanagar, Eastern Express Highway, Vikhroli, Mumbai 400 079, India.

Phone: (91-22) 2518 8010 / 2518 8020 / 2518 8030 extn: 4768 Fax: (91-22) 2518 8096 / 2518 8068

Printing date 08/10/2015

e-mail: rv.dubhashi@godrejinds.com

Reviewed on 08/10/2015

## 1 Identification

· **Trade name: Pureoleic**

· **Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

· **Application of the substance / the mixture** Personal Care & Cosmetics, Plastics, Coatings & Inks. · **Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

Godrej Industries Ltd.

Plot No 3, Village Kanerao, Taluka Valia, District Bharuch, Gujarat, India,

Pin: 393135

· **Information department:**

Mr. Hemant Sawant hemant.sawant@godrejinds.com

T: 91-2643 270756 / 57 / 58 / 59 / 60 Office hours only (08.30 – 17.00 hours GMT +4.5 hours)

F: 91-2643 270018

· **Emergency telephone number:** Please provide

Contact details of European importer

Emergency telephone number:

9909028240, 9820607143, 9820305315

Telephone number of EU importer:

Opening hours:

Other Comments (e.g. language(s) of the phone service): English

## 2 Hazard(s) identification

· **Classification of the substance or mixture**



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

· **Label elements**

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS07

· **Signal word** Warning

· **Hazard statements**

Causes skin irritation.

Causes serious eye irritation.

· **Precautionary statements**

Wear protective gloves.

Wear eye protection / face protection.

Wash thoroughly after handling.

(Contd. on page 2)

us

Registered office: Pirojshanagar, Eastern Express Highway, Vikhroli, Mumbai 400 079, India.

Phone: (91-22) 2518 8010 / 2518 8020 / 2518 8030 extn: 4768 Fax: (91-22) 2518 8096 / 2518 8068

Printing date 08/10/2015

e-mail: rv.dubhashi@godrejinds.com

Reviewed on 08/10/2015

**Trade name: Pureoleic**

(Contd. of page 1)

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific treatment (see on this label).

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

If on skin: Wash with plenty of water.

Take off contaminated clothing and wash it before reuse.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 1

Fire = 1

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = 1

Fire = 1

Reactivity = 0

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

### 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture: consisting of the following components.

· **Components:**

112-80-1	oleic acid	75.0%
60-33-3	linoleic acid	17.0%
2091-29-4	9-Hexadecenoic acid	8.0%

### 4 First-aid measures

· **Description of first aid measures**

· **After inhalation:**

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

· **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:**

Rinse out mouth. Do not induce vomiting; call for medical help immediately

(Contd. on page 3)

Registered office: Pirojshanagar, Eastern Express Highway, Vikhroli, Mumbai 400 079, India.

Phone: (91-22) 2518 8010 / 2518 8020 / 2518 8030 extn: 4768 Fax: (91-22) 2518 8096 / 2518 8068

Printing date 08/10/2015

e-mail: rv.dubhashi@godrejinds.com

Reviewed on 08/10/2015

**Trade name: Pureoleic**

(Contd. of page 2)

- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

## 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
Use water spray, carbon dioxide, dry chemical or alcohol foam. Use water to keep fire-exposed container cool.
- **Special hazards arising from the substance or mixture**  
No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:**  
Wear self-contained breathing apparatus for firefighting if necessary.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Avoid contact with skin and eyes.  
Wear suitable protective clothing and gloves.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**  
Keep ignition sources away - Do not smoke.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Keep in dry container. Use only dry, clean utensils when handling.

(Contd. on page 4)

Registered office: Pirojshanagar, Eastern Express Highway, Vikhroli, Mumbai 400 079, India.

Phone: (91-22) 2518 8010 / 2518 8020 / 2518 8030 extn: 4768 Fax: (91-22) 2518 8096 / 2518 8068

Printing date 08/10/2015

e-mail: rv.dubhashi@godrejinds.com

Reviewed on 08/10/2015

**Trade name: Pureoleic**

(Contd. of page 3)

- **Information about storage in one common storage facility:** Store in well ventilated area.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s)** Personal Care & Cosmetics, Plastics, Coatings & Inks.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.
- **Breathing equipment:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

(Contd. on page 5)

US

Registered office: Pirojshanagar, Eastern Express Highway, Vikhroli, Mumbai 400 079, India.

Phone: (91-22) 2518 8010 / 2518 8020 / 2518 8030 extn: 4768 Fax: (91-22) 2518 8096 / 2518 8068

Printing date 08/10/2015

e-mail: rv.dubhashi@godrejinds.com

Reviewed on 08/10/2015

**Trade name: Pureoleic**

(Contd. of page 4)

· **Body protection:** Protective work clothing

## 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

<b>Form:</b>	Liquid
<b>Color:</b>	Pale Yellow liquid
<b>Odor:</b>	Characteristic

· **pH-value:** Not determined.

· **Change in condition**

<b>Melting point/Melting range:</b>	10-15 °C (50-59 °F) (Freezing point)
<b>Boiling point/Boiling range:</b>	286 °C (547 °F)

· **Flash point:** >282 °C (>540 °F)

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** 360 °C (680 °F)

· **Auto igniting:** Auto ignition temperature: 363° C

· **Danger of explosion:** Product does not present an explosion hazard.

· **Vapor pressure at 30 °C (86 °F):** < 1mm Pa

· **Density:**

**Vapour density** >1

· **Solubility in / Miscibility with**

**Water:** Not miscible or difficult to mix.

· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity:**

**Dynamic:** Not determined.

· **Other information** No further relevant information available.

## 10 Stability and reactivity

· **Reactivity** No further relevant information available.

· **Chemical stability**

· **Thermal decomposition / conditions to be avoided:**

Product is very stable under the prescribed storage conditions.

· **Possibility of hazardous reactions** No dangerous reactions known.

· **Conditions to avoid** No further relevant information available.

· **Incompatible materials:** Strong oxidizing agents.

(Contd. on page 6)

Registered office: Pirojshanagar, Eastern Express Highway, Vikhroli, Mumbai 400 079, India.  
 Phone: (91-22) 2518 8010 / 2518 8020 / 2518 8030 extn: 4768 Fax: (91-22) 2518 8096 / 2518 8068  
 Printing date 08/10/2015 e-mail: rv.dubhashi@godrejinds.com Reviewed on 08/10/2015

**Trade name: Pureoleic**

(Contd. of page 5)

- **Hazardous decomposition products:**  
Acrid smoke and irritating fumes of Carbon Oxides when heated above its boiling point

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**

### **112-80-1 oleic acid**

Oral	LD50	25000 mg/kg (rat)
Dermal	LD50	28000 mg/kg (mouse)
Inhalative	TCLo (4 hr)	30 mg/m <sup>3</sup> (rat)

### **60-33-3 linoleic acid**

Oral	LD50	>50 gm/kg (mouse)
------	------	-------------------

- **Primary irritant effect:**
- **on the skin:**  
 CAS No. 112-80-1  
 Route/Organism: administration onto the skin, human  
 Dose: 15 mg/3DI  
 Effect: moderate irritation effect  
  
 CAS No. 60-33-3  
 Route/Organism: administration onto the skin, human  
 Dose: 75 mg/3DI  
 Effect: moderate irritation effect
- **on the eye:**  
 CAS No. 112-80-1  
 Route/Organism: administration into the eye (irritant)/rabbit  
 Dose: 100 mg  
 Effect: mild irritant effect
- **Sensitization:** No sensitizing effects known.
- **Subacute to chronic toxicity:**  
 CAS No. 112-80-1  
 Route/Organism: intraperitoneal, mouse  
 Dose: TDLo: 2712 mg/kg/6WI  
 Effect:: IMMUNOLOGICAL INCLUDING ALLERGIC: Allergic (Multiple organ involvement)  
 Autoimmune
- **Additional toxicological information:**  
 The product shows the following dangers according to internally approved calculation methods for preparations:  
 Irritant

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

(Contd. on page 7)

Registered office: Pirojshanagar, Eastern Express Highway, Vikhroli, Mumbai 400 079, India.

Phone: (91-22) 2518 8010 / 2518 8020 / 2518 8030 extn: 4768 Fax: (91-22) 2518 8096 / 2518 8068

Printing date 08/10/2015

e-mail: rv.dubhashi@godrejinds.com

Reviewed on 08/10/2015

**Trade name: Pureoleic**

(Contd. of page 6)

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

## 12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**

**112-80-1 oleic acid**

LC50 (96 h) 205 mg/L (Pimephales Promelas (Fathead Minnow))

· **Persistence and degradability**

CAS No. 112-80-1

A 47 and 52 theoretical %BOD for oleic acid (initial concn of 1,000 ppm) was measured over a period of 5 days in screening tests at 20 deg C using sewage inoculum

CAS No. 60-33-3

In Warburg tests using an unacclimated activated sludge inoculum, linoleic acid, present as the sodium salt, was observed to biodegrade with half-lives of 30, 20, and 13 hours at 20, 25, and 30 deg C, respectively.

· **Behavior in environmental systems:**

· **Bioaccumulative potential**

CAS No. 112-80-1

An estimated BCF of 10 was calculated in fish for oleic acid. This BCF suggests the potential for bioconcentration in aquatic organisms is low

· **Mobility in soil**

CAS No. 112-80-1

The Koc of undissociated oleic acid is estimated as 340,000. This estimated Koc value suggests that oleic acid is expected to be immobile in soil.

· **Additional ecological information:**

· **General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects** No further relevant information available.

US

(Contd. on page 8)

Registered office: Pirojshanagar, Eastern Express Highway, Vikhroli, Mumbai 400 079, India.

Phone: (91-22) 2518 8010 / 2518 8020 / 2518 8030 extn: 4768 Fax: (91-22) 2518 8096 / 2518 8068

Printing date 08/10/2015

e-mail: rv.dubhashi@godrejinds.com

Reviewed on 08/10/2015

**Trade name: Pureoleic**

(Contd. of page 7)

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
Stored waste / recovered material, sent for recycle along with crude oils. Any unrecoverable / recyclable materials should be disposed off in accordance with the local, state and federal regulations
- **Waste disposal key:**  
Waste must be disposed of in accordance with federal, state and local environmental control regulations
- **Uncleaned packagings:**
- **Recommendation:** Sweep up and store in closed containers.

## 14 Transport information

<ul style="list-style-type: none"> <li>· <b>UN-Number</b></li> <li>· <b>DOT, ADR, ADN, IMDG, IATA</b></li> </ul>	Not applicable
<ul style="list-style-type: none"> <li>· <b>UN proper shipping name</b></li> <li>· <b>DOT, ADR, ADN, IMDG, IATA</b></li> </ul>	Not applicable
<ul style="list-style-type: none"> <li>· <b>Transport hazard class(es)</b></li> <li>· <b>DOT, ADR, ADN, IMDG, IATA</b></li> <li>· <b>Class</b></li> </ul>	Not applicable
<ul style="list-style-type: none"> <li>· <b>Packing group</b></li> <li>· <b>DOT, ADR, IMDG, IATA</b></li> </ul>	Not applicable
<ul style="list-style-type: none"> <li>· <b>Environmental hazards:</b></li> </ul>	Not applicable.
<ul style="list-style-type: none"> <li>· <b>Special precautions for user</b></li> </ul>	Not applicable.
<ul style="list-style-type: none"> <li>· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b></li> </ul>	Not applicable.
<ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>	Not applicable

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - **Sara**
- |  |                                    |
|--|------------------------------------|
| <ul style="list-style-type: none"> <li>· <b>Section 355 (extremely hazardous substances):</b></li> </ul>   | None of the ingredients is listed. |
| <ul style="list-style-type: none"> <li>· <b>Section 313 (Specific toxic chemical listings):</b></li> </ul> | None of the ingredients is listed. |

(Contd. on page 9)

Registered office: Pirojshanagar, Eastern Express Highway, Vikhroli, Mumbai 400 079, India.

Phone: (91-22) 2518 8010 / 2518 8020 / 2518 8030 extn: 4768 Fax: (91-22) 2518 8096 / 2518 8068

Printing date 08/10/2015

e-mail: rv.dubhashi@godrejinds.com

Reviewed on 08/10/2015

**Trade name: Pureoleic**

(Contd. of page 8)

**· TSCA (Toxic Substances Control Act):**

All ingredients are listed.

**· Proposition 65****· Chemicals known to cause cancer:**

None of the ingredients is listed.

**· Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

**· Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

**· Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

**· Carcinogenic categories****· EPA (Environmental Protection Agency)**

None of the ingredients is listed.

**· TLV (Threshold Limit Value established by ACGIH)**

TLV (ACGIH): 1000 ppm.

**· NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

**· GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

**· Hazard pictograms**

GHS07

**· Signal word** Warning**· Hazard statements**

Causes skin irritation.

Causes serious eye irritation.

**· Precautionary statements**

Wear protective gloves.

Wear eye protection / face protection.

Wash thoroughly after handling.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific treatment (see on this label).

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

If on skin: Wash with plenty of water.

Take off contaminated clothing and wash it before reuse.

(Contd. on page 10)

US

Registered office: Pirojshanagar, Eastern Express Highway, Vikhroli, Mumbai 400 079, India.

Phone: (91-22) 2518 8010 / 2518 8020 / 2518 8030 extn: 4768 Fax: (91-22) 2518 8096 / 2518 8068

Printing date 08/10/2015

e-mail: rv.dubhashi@godrejinds.com

Reviewed on 08/10/2015

**Trade name: Pureoleic**

(Contd. of page 9)

- **National regulations:**
- **Other regulations, limitations and prohibitive regulations**  
User to follow national laws and regulations.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** Product safety department.
- **Contact:** Dr. Naidu
- **Date of preparation / last revision** 08/10/2015
- **Abbreviations and acronyms:**
  - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  - IMDG: International Maritime Code for Dangerous Goods
  - DOT: US Department of Transportation
  - IATA: International Air Transport Association
  - ACGIH: American Conference of Governmental Industrial Hygienists
  - EINECS: European Inventory of Existing Commercial Chemical Substances
  - ELINCS: European List of Notified Chemical Substances
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - NFPA: National Fire Protection Association (USA)
  - HMIS: Hazardous Materials Identification System (USA)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative
  - Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
  - Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A
- **Sources**
  - Occupational Safety & Health Administration (OSHA)  
<https://www.osha.gov/Publications/OSHA3514.html>
  - RTECS document for CAS 112-80-1  
<http://www.expub.com/Members/Documents/R0I0RL7NR0U0KKAX5FKVNSYPRIKSJB.pdf>
  - HSDB for CAS 112-80-1  
<http://www.expub.com/Members/Documents/G0KFL801AGWH13LL0BN8KWT8TUKG1R.pdf>
  - ECOTOX- Aquire for CAS 112-80-1  
<http://www.expub.com/Members/Documents/YV7OS3VBNTY82U11F4RLQMBNADWXK1.pdf>
  - RTECS document for CAS 60-33-3  
<http://www.expub.com/Members/Documents/FUM6AVTBKIBI7OVPHYXE90QJ18G59YQ.pdf>
  - HSDB for CAS 60-33-3  
<http://www.expub.com/Members/Documents/054KTA5SQNX4YP8CRTFD4PLW75FRD1.pdf>
- **\* Data compared to the previous version altered.**
  - Section 1: Identification of substance and company
  - Section 2: Hazard(s) identification
  - Section 3: composition/information of ingredients
  - Section 4: First-aid measures.

(Contd. on page 11)

US

Registered office: Pirojshanagar, Eastern Express Highway, Vikhroli, Mumbai 400 079, India.

Phone: (91-22) 2518 8010 / 2518 8020 / 2518 8030 extn: 4768 Fax: (91-22) 2518 8096 / 2518 8068

Printing date 08/10/2015

e-mail: rv.dubhashi@godrejinds.com

Reviewed on 08/10/2015

**Trade name: Pureoleic**

(Contd. of page 10)

*Section 5: Fire-fighting measures*  
*Section 6: Accidental Release measures*  
*Section 7: Handling and storage.*  
*Section 8: Exposure Controls/Personal protection.*  
*Section 9: Physical and Chemical properties.*  
*Section 10: Stability and Reactivity.*  
*Section 11: Toxicological Information.*  
*Section 12: Ecological Information.*  
*Section 13: Disposal consideration.*  
*Section 15: Regulatory information.*  
*Section 16: other Information*

US