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Trade name: <u>R</u>	efined Glycerin (USP/ BP/ IP/JP/EP/FCC)
INCI Name: <u>Gly</u>	<u>cerin</u>
CAS Number:	
56-81-5	
EC number:	
200-289-5	
Relevant ident	fied uses of the substance or mixture and uses advised against:
No further rele	ant information available.
	the substance / the mixture
1) Used in food	•
-	maceutical and personal care applications
	Inti-freeze for automotive applications
4) Used for bio	diesel production
Details of the s	upplier of the safety data sheet
-	/Supplier: Godrej Industries Ltd.
	No N 73, Addl MIDC, Anand Nagar , Ambernath East. ThaneMaharashtra, India
	No 3, Village Kanerao, Taluka – Valia, District – Bharuch , Gujrat, India
Information de	
Mr. RV Dubhas	
	768 Office hours only (08.30 – 17.00 hours GMT +5.5 hours)
Emergency tel	phone number:
Emergency tel Emergency tele	r phone number: phone number: Unit 01 :- 0251 262 4292, Unit 02 - 02643 270756
Emergency tel Emergency tele Opening hours:	r phone number: phone number: Unit 01 :- 0251 262 4292, Unit 02 - 02643 270756 Office hours only (8.30 AM- 17.00 PM)
Emergency tel Emergency tele Opening hours: Other Commen	r phone number: phone number: Unit 01 :- 0251 262 4292, Unit 02 - 02643 270756 Office hours only (8.30 AM- 17.00 PM) ts (e.g. language(s) of the phone service): English
Emergency tel Emergency tele Opening hours:	r phone number: phone number: Unit 01 :- 0251 262 4292, Unit 02 - 02643 270756 Office hours only (8.30 AM- 17.00 PM) ts (e.g. language(s) of the phone service): English
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Emergency tele Emergency tele Opening hours: Other Commen 2. Hazard(s) in Classification of The substance	<pre>phone number: phone number: Unit 01:- 0251 262 4292, Unit 02- 02643 270756 Office hours only (8.30 AM- 17.00 PM) ts (e.g. language(s) of the phone service): English lentification f the substance or mixture is not classified according to the Globally Harmonized System (GHS).</pre>
Emergency tele Emergency tele Opening hours: Other Commen 2. Hazard(s) id Classification of The substance Label elements	<pre>phone number: phone number: Unit 01:- 0251 262 4292, Unit 02- 02643 270756 Office hours only (8.30 AM- 17.00 PM) ts (e.g. language(s) of the phone service): English lentification f the substance or mixture is not classified according to the Globally Harmonized System (GHS).</pre>
Emergency tele Emergency tele Opening hours: Other Commen 2. Hazard(s) id Classification of The substance Label element: GHS label elem	<pre>phone number: phone number: Unit 01:- 0251 262 4292, Unit 02- 02643 270756 Office hours only (8.30 AM- 17.00 PM) ts (e.g. language(s) of the phone service): English entification f the substance or mixture is not classified according to the Globally Harmonized System (GHS). ents Not applicable</pre>
Emergency tell Emergency tell Opening hours: Other Commen 2. Hazard(s) id Classification of The substance Label element: GHS label elem Hazard pictog	<pre>phone number: phone number: Unit 01:- 0251 262 4292, Unit 02- 02643 270756 Office hours only (8.30 AM- 17.00 PM) ts (e.g. language(s) of the phone service): English dentification f the substance or mixture is not classified according to the Globally Harmonized System (GHS). ents Not applicable ams Not applicable</pre>
Emergency tele Emergency tele Opening hours: Other Commen 2. Hazard(s) id Classification of The substance Label element: GHS label elem Hazard pictoge Signal word No	<pre>phone number: phone number: Unit 01:- 0251 262 4292, Unit 02- 02643 270756 Office hours only (8.30 AM- 17.00 PM) ts (e.g. language(s) of the phone service): English dentification f the substance or mixture is not classified according to the Globally Harmonized System (GHS). ents Not applicable ams Not applicable ams Not applicable it applicable</pre>
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Emergency tele Emergency tele Opening hours: Other Commen 2. Hazard(s) id Classification of The substance Label elements GHS label elem Hazard pictogi Signal word No Hazard statem Classification s	<pre>sphone number: phone number: Unit 01:- 0251 262 4292, Unit 02- 02643 270756 Office hours only (8.30 AM- 17.00 PM) ts (e.g. language(s) of the phone service): English entification f the substance or mixture is not classified according to the Globally Harmonized System (GHS). ents Not applicable ams Not applicable t applicable ents Not applicable ents Not applicable system: ccale 0 - 4) Health = 0</pre>
Emergency tele Emergency tele Opening hours: Other Commen 2. Hazard(s) id Classification of The substance Label elements GHS label elem Hazard pictogi Signal word No Hazard statem Classification s	sphone number: phone number: Unit 01:- 0251 262 4292, Unit 02- 02643 270756 Office hours only (8.30 AM- 17.00 PM) ts (e.g. language(s) of the phone service): English Intermification Intermification Intermification
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ıde name: Refined	Glycerin
· HMIS-ratings (sc	ale 0 - 4)
	Health = 0
FIRE 0 A	Fire = 0
REACTIVITY 0	Reactivity = 0
• Other hazards	
-	nd vPvB assessment
• PBT: Not applica	
• vPvB: Not applied	JDIE.
Composition /inf	ormation on ingredients
s composition/mje	innution on ingredients
· Chemical charac	terization: Substances
· CAS No. Descript	ion
56-81-5 glycerol	
· Components:	
% Glycerol	>99.50
% Water	0.10 - 0.30
· Identification nu	
• EC number: 200-	
· Additional inform	
Molecular formu	
Molecular weigh	It: 92.09 g·mol−1
4 First-aid measure	
First-ulu meusure	
· Description of fi	rst aid measures
General informa	tion: Seek medical treatment.
-	: Move person to fresh air; if effects occur, consult a physician.
	ct: Wash skin with plenty of water.
• After eye contac	
	ughly with water for several minutes. Remove contact lenses after the initial
-	I continue flushing for several additional minutes.
	consult a physician, preferably an ophthalmologist.
After swallowing	
	eek medical attention. Do not induce vomiting unless directed to do so by medical
,	

If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

· Information for doctor:

No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

- *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.

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5 Fire-fighting measures

· Extinguishing media

· Suitable extinguishing agents:

Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. May spread fire. Alcohol resistant foams (ATC type) are preferred.

· For safety reasons unsuitable extinguishing agents: Do not use direct water stream

· Special hazards arising from the substance or mixture

Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. • Advice for firefighters

· Protective equipment:

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves).

Additional information

Keep people away. Isolate fire and deny unnecessary entry. Burning liquids may be extinguished by dilution with water. Burning liquids may be moved by fluching with water to protect personnel and m

Burning liquids may be moved by flushing with water to protect personnel and minimize property damage.

6. Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Keep unnecessary and unprotected personnel from entering the area. Use appropriate safety equipment. Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

· Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

- · Methods and material for containment and cleaning up:
- Recover spilled material if possible.

Absorb with materials such as: Sand. Collect in suitable and properly labeled containers.

- 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 Handle with good hygiene and safety procedures

· Information about protection against explosions and fires:

No special measures required.

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 \cdot Conditions for safe storage, including any incompatibilities

· Storage:

• Requirements to be met by storerooms and receptacles:

Use leak-proof and compatible Drums. Store in dry and well ventilated locations at 25.0 – 30.0°C, Away from direct sunlight.

• Information about storage in one common storage facility: Store away from air.

· Further information about storage conditions: Keep container tightly closed.

Specific end use(s)

1) Used in food industry

- 2) Used in Pharmaceutical and personal care applications
- *3)* Used as an anti-freeze for automotive applications
- 4) Used for biodiesel production

8 Exposure c	ontrols/perso	onal protection
--------------	---------------	-----------------

· Control parameters

· Components with limit values that require monitoring at the workplace:

56-81-5 glycerol

 PEL
 Long-term value: 15* 5** mg/m³

 *total dust **respirable fraction

 TLV
 TLV withdrawn-insufficient data human occup. exp.

· Exposure controls

· Personal protective equipment:

· General protective and hygienic measures:

Wash hands before breaks and immediately after handling the product. When using do not eat or drink. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothes before re-use. Preventive hand protection is recommended.

· Breathing equipment:

If material is heated or sprayed, use an approved air-purifying respirator. Use the following CE approved airpurifying respirator: Organic vapor cartridge with a particulate pre-filter, type AP2.

· Protection of hands:

Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur. Use chemical resistant gloves classified under Standard EN374: Protective gloves against chemicals and micro-organisms

· Material of gloves

Butyl rubber. Polyethylene. Neoprene. Natural rubber ("latex"). Polyvinyl chloride ("PVC" or "vinyl"). Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyvinyl alcohol ("PVA"). Ethyl vinyl alcohol laminate ("EVAL").

- Penetration time of glove material greater than 120 minutes
- · Eye protection: Goggles recommended during refilling.
- · Body protection: Apron

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Physical and chemical properties Information on basic physical and chemical properti	
	es
General Information	
Appearance:	
Form:	clear Viscous liquid
Color:	Colorless
Odor:	Odorless
Change in condition	
Melting point/Melting range:	18.17 °C (65 °F) (ca. 101.3 kPa)
Boiling point/Boiling range:	290 °C (554 °F) (760 mm Hg)
Flash point:	199 °C (390 °F) (Penki-Martens closed cup)
Flammability (solid, gaseous):	Product is not flammable.
gnition temperature:	370 °C (698 °F)
Auto igniting:	Product is not self-igniting.
Danger of explosion:	Product does not present an explosion hazard
Vapor pressure at 20 °C (68 °F):	0.1 mm
Density at 20 °C (68 °F):	1.26 g/cm³ (10.515 lbs/gal)
Solubility in / Miscibility with	
Water at 25 °C (77 °F):	The product is more soluble in water
Partition coefficient (n-octanol/water) at 25	
°C (77 °F):	-1.75 log POW (pH=7.4)
Viscosity:	
Dynamic at 20 °C (68 °F):	1412 mPas

10. Stability and reactivity

- *Reactivity* No further relevant information available.
- · Chemical stability Stable under recommended storage conditions. Hygroscopic
- Thermal decomposition / conditions to be avoided:

Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: Acrolein.

- · Possibility of hazardous reactions Hazardous Polymerization: Will not occur.
- · Conditions to avoid

Exposure to elevated temperatures can cause product to decompose. Avoid moisture. • *Incompatible materials:* Avoid contact with: Strong oxidizers.

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· Hazardous decomposition products:

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide.

11 Toxicological information

· Information on toxicological effects

· Acute toxic	ity:	
· LD/LC50 va	lues that are	relevant for classification:
Oral	LD 50	23000 mg/kg bw (mouse)
		≥ 10000 mg/kg bw (Guinea pig)
Inhalative	LC50(7-h)	4655 mg-min/liter (rat male)
· Primary irr	itant effect:	
on the skin	: No irritant ej	ffect.
· on the eye:	No irritating	effect.
· Sensitizatio	n: No sensitiz	ing effects known.
	o chronic toxi	city:
Repeated a	lose toxicity:	
10 and 20		glycerin was examined in rats fed the test material in the diet at concentrations of 5, wo years. The NOAEL was 8000-10,000 mg/kg bw based on the absence of treatment ose animals.
Additional	toxicological	information:
our experie	nce and the ii	according to specifications, the product does not have any harmful effects according to nformation provided to us. ject to classification.
-	ic categories	
	-	ncy for Research on Cancer) Substance is not listed.
-		y Program) Substance is not listed.
· OSHA-Ca (C	Dccupational :	Safety & Health Administration) Substance is not listed.
2 Ecological in	formation	
· Toxicity		
• Toxicity • Aquatic tox	cicity:	
		g/L (Daphnia magna)
Aquatic tox) 1955 m	g/L (Daphnia magna) ng/L (Oncorhynchus mykiss)
Aquatic tox LC50 (48-h, LC50 (96-h,) 1955 m) 54000 r	ng/L (Oncorhynchus mykiss)
Aquatic tox LC50 (48-h) LC50 (96-h) Persistence) 1955 m) 54000 n and degrada	ng/L (Oncorhynchus mykiss)

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· Behavior in environmental systems:	
· Bioaccumulative potential	
Bioaccumulation factor:	
(BCF) Value: 3.2 (predicted)	
Result: Non-bioaccumulative	
· Mobility in soil	
Soil Adsorbtion Coefficient =1 (Estimated)	
Result: Very mobile	
· Additional ecological information:	
· General notes:	
Water hazard class 1 (Assessment by list): 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.	
13. Disposal considerations	
· Waste treatment methods	
· Recommendation:	
Dispose off waste material according to local, state and federal regulations.	
Do not dump into any sewers, on the ground, or into any body of water.	
· Uncleaned packagings:	
• Recommendation: Disposal must be made according to official regulations.	

UN-Number		
DOT, ADR, ADN, IMDG, IATA	Not applicable	
UN proper shipping name		
DOT, ADR, ADN, IMDG, IATA	Not applicable	
Transport hazard class(es)		
DOT, ADR, ADN, IMDG, IATA		
Class	Not applicable	
Packing group		
DOT, ADR, IMDG, IATA	Not applicable	
Environmental hazards:		
Marine pollutant:	No	

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de name: Refined Glycerin		
· Special precautions for user	Not applicable.	
· Transport in bulk according to Annex	ll of	
MARPOL73/78 and the IBC Cod	Not applicable.	
· UN "Model Regulation":	Not applicable	

15 Regulatory information

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

- Section 355 (extremely hazardous substances): Substance is not listed.
- Section 313 (Specific toxic chemical listings): Substance is not listed.
- TSCA (Toxic Substances Control Act): Substance is listed.

· Proposition 65

- · Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.
- · Carcinogenic categories
- · EPA (Environmental Protection Agency) Substance is not listed.
- TLV (Threshold Limit Value established by ACGIH) Substance is not listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

- · GHS label elements Not applicable
- · Hazard pictograms Not applicable
- · Signal word Not applicable
- · Hazard statements Not applicable

· National regulations:

• Other regulations, limitations and prohibitive regulations

EU- Listed Canada-DSL – Listed China-NEPA (IECSC) – Listed New Zealand (NZIOC) – Listed Australia-AICS –Not Listed Japan MITI-Listed Philippine PICSS-Listed • **Chemical safety assessment:** A Chemical Safety Assessment is not applicable

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16. Other information

The information presented here is believed to be accurate and pertains only to the product when stored in a sealed condition, as prescribed here. The information is given in good faith, but no warranty, express or implied, is made. Users should make their own investigations, for their specific applications and processes, to determine the suitability of the safety information mentioned here. Godrej Industries Limited will in no way be liable for any claims, losses and / or damages of any third party, or for lost profits, or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, from the use of this product.

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:

Mr. rv.dubhashi@godrejinds.com

T: 91-22 2519 4768 Date of preparation / last revision 01.04.2019

• Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) 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 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 Sources -Occupational Safety & Health Administration (OSHA) https://www.osha.gov/Publications/OSHA3514.html -Wikipedia-applications https://en.wikipedia.org/wiki/Glycerol -ECHA-registered dossier http://apps.echa.europa.eu/registered/data/dossiers/DISS-9d855cc7-316c-2a21-e044-00144f67d249/AGGR-f4ad8717-5163-4914-9d89-da1d7c6631d5 DISS-9d855cc7-316c-2a21-e044-00144f67d249.html GEN RESULTS HD -PBT profiler

http://www.pbtprofiler.net/Results.asp

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* Data compared to the previous version altered.

- Section 1: Identification of the substance/mixture and of the company/undertaking
- Section 3: Composition/information on ingredients
- •Section 4: First-aid measures.
- •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