According to Regulation (EC) No 1907/2006 (REACH)

Version: 2.1/EN 1 Revision Date: 1-17-2023

Section 1: Identification of the substance/mixture and of the company/undertaking 1.1 Product Identifier:

#### 1.1.1 Substance

Substance name: Poly(sebacic acid-co-glycerol) SA:GLY 50:50 (w:w)

Catalog Number: AP116

CAS No.: N/A Index No: N/A EC No: N/A

REACH Registration No: N/A

- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- 1.2.1 Relevant identified uses

Research and Development

1.2.2 Uses advised against:

Not for clinical usage. Not for food, drug, or household usage.

1.3 Details of the supplier of the safety data sheet:

Supplier: Akina, Inc.

3495 Kent Avenue

West Lafayette, IN 47906

Technical Contact: John Garner

Email: jg@akinainc.com

1.4 Emergency Telephone Number:

Phone: 765-464-0501

#### Section 2: Hazards Identification

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL and/or M-factor	Classification procedure
None	N/A	Not established

8	SCL and/or	Classification procedure
67/548/EEC or 1999/45/EC	M-factor	
None	N/A	Not established

#### 2.1.1 Additional information

Toxicological properties are not known.

#### 2.2 Label elements

## 2.2.1 Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

Product identifier: Poly(sebacic acid-co-glycerol) SA:GLY 50:50 (w:w)

**Substances:** 

According to Regulation (EC) No 1907/2006 (REACH)

Version: 2.1/EN 2 Revision Date: 1-17-2023

Hazard components for labeling:

None

Hazard pictograms

None

**Hazard Statements:** 

None

**Precationary Statements:** 

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330 IF SWALLOWED: Rinse mouth.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

## 2.3 Other Hazards

None

Section 3. Composition/information on ingredients

3.1 Substances

Substance name: Poly(sebacic acid-co-glycerol) SA:GLY 50:50 (w:w)

CAS No.: N/A Index No: N/A EC No: N/A

REACH Registration No: N/A

Purity: ≥90% Synonyms: None Stabilizers: None

Hazard impurities: None

Material is not a mixture

## Section 4.: First aid Measures

4.1 Description of first aid measures

## 4.1.1 General Information:

Substance is non-toxic however not all toxicological properties have been ascertained. For this reason, prudent care should be taken in the event of exposure.

4.1.1 Following inhalation:

If breathing is difficult, contact emergency personnel.

4.1.2 Following eye contact

Flush eyes with flowing water for at least 15 minutes.

4.1.3 Following skin contact:

Wash skin with deluge of water for at least 15 minutes.

4.1.4 Following ingestion:

If swallowed, do not induce vomiting. Do not give anything to drink. Obtain medical attention without delay. If swallowed, wash out mouth with water if person is conscious. Remove to fresh air.

4.1.6 Self-protection of the first aider:

First aider should wear protective gloves/protective clothing/eye protection/face protection as appropriate for the situation.

According to Regulation (EC) No 1907/2006 (REACH)

Version: 2.1/EN 3 Revision Date: 1-17-2023

4.2 Most important symptoms and effects, both acute and delayed

Not identified

4.3 Indication of any immediate medical attention and special treatment needed

None specified. Treatment should be supportive and symptomatic.

Section 5. Firefighting measures

5.1 Extinguishing media:

All types of extinguishing media are suitable

5.2 Special hazards arising from the substance

Hazardous combustion products: oxides of carbon

5.3 Advice for fire fighters

None

5.4 Additional information:

Flash point, °F: no data

Method: no data

UEL: no data / LEL: no data

Autoignition temperature, °F:no data

Section 6; Accidental release Measures

# 6.1 Personal precautions, protective and emergency procedures

Any information listed below is to be considered in addition to internal guidelines for isolation of spill, containment of spill, removal of ignition sources from immediate area, and collection for disposal of spill by trained, properly protected clean-up personnel.

6.1.1 For non emergency personnel

Personnel should wear protective gloves/protective clothing/eye protection/face protection as appropriate for the situation. Sweep up powders and dispose of in accordance with local laws. Absorb liquids on absorbent material. Contain spilled liquids. Protect personnel from exposure

## 6.1.2 For emergency responders

Personnel should wear protective gloves/protective clothing/eye protection/face protection as appropriate for the situation. Sweep up solids/powders and dispose of in accordance with local laws. Absorb liquids on absorbent material. Contain spilled liquids. Protect personnel from exposure

#### **6.2 Environmental Precautions**

- 6.3 Methods and material for containment and cleaning up
- 6.3.1 For containment:

Any airtight container is suitable for containment

6.3.2 For cleaning up:

Sweep up and shovel. Keep in suitable, closed containers for disposal. Sweep up solids/powders. Absorb liquids on absorbent material. Dispose of in accordance with local laws.

6.3.3 Other information:

None

6.4 Reference to other sections

For disposal see section 13.

According to Regulation (EC) No 1907/2006 (REACH)

Version: 2.1/EN 4 Revision Date: 1-17-2023

## 6.5 Additional information

None

Section 7: Handling and storage

7.1 Precautions for safe handling

Store material in tightly sealed containers. Personnel should wear protective gloves/protective clothing/eye protection/face protection as appropriate for work being performed. Prior to opening package, warm to room temperature.

#### 7.1.1 Protective measures:

Store material in tightly sealed containers. Personnel should wear protective gloves/protective clothing/eye protection/face protection as appropriate for work being performed. If dissolving material in an organic solvent handle the organic solvent per manufacturer SDS.

# 7.1.2 Advice on general occupational hygiene

Do not eat, drink, or smoke in work areas. Wash hands after use. Remove contaminated clothing or protective equipment before entering eating areas.

# 7.2 Conditions for safe storage

Technical measures and storage conditions:

To preserve integrity of product store at -20°C with desiccant. Prior to opening package, warm to room temperature.

## Packaging materials:

Compatible with glass and plastic packaging.

#### Hints on storage assembly:

Storage Class: non-hazardous materials

Materials to avoid: Store material away from strong oxidizers.

## Further information on storage conditions:

None

# 7.3 Specific end uses:

Recommendations: Research and development, not for clinical usage

Specific end uses: polymeric formulations

#### Section 8: Exposure controls/personal protection

#### 8.1 Control parameters

The use of eye protection in the form of safety glasses with side shields and the use of skin protection for hands in the form of gloves are considered minimum and non-discretionary in work places and laboratories. Any recommended personal protection equipment or environmental equipment is to be considered as additional to safety glasses and gloves.

- Use chemical splash goggles and face shield
- Use latex or equivalent gloves

According to Regulation (EC) No 1907/2006 (REACH)

Version: 2.1/EN 5 Revision Date: 1-17-2023

8.1.1 Occupational exposure limits:

Limit value type (coun try of origin )	Substance name	EC- No.	CAS- No.	tiona expos re lin value	l su nit	Monitori ng and observati on	Peak limita tion	Source
				Long term	Short term			
	Poly(sebacic acid-co-glycerol) SA:GLY 50:50 (w:w)	NA	NA	NA	NA	None	NA	NA

8.1.2 Biological limit values:

Limit	Substance	EC-	CAS-	Limit	Parameter	Test	Test	Source
value	name	No	No	Value		material	date	
type (country								
of								
origin)								
None	Poly(sebacic acid-co- glycerol) SA:GLY 50:50 (w:w)	NA	NA	none	NA	none	NA	NA

# 8.1.3 Exposure limits at intended use:

Not applicable

# 8.1.4 DNEL/PNEC-values:

Substance name: Poly(sebacic acid-co-glycerol) SA:GLY 50:50 (w:w)

DNEL worker:

According to Regulation (EC) No 1907/2006 (REACH)

Version: 2.1/EN 6 Revision Date: 1-17-2023

DNEL short-term oral (acute)	Not established	N/A	
DNEL long-term oral (repeated)	Not established	N/A	
DNEL acute dermal, short-term (local)	Not established	N/A	
DNEL acute dermal, short-term (systemic)	Not established	N/A	
DNEL long-term dermal (local)	Not established	N/A	
DNEL long-term dermal (systemic)	Not established	N/A	
DNEL acute inhalative (local)	Not established	N/A	
DNEL acute inhalative (systemic)	Not established	N/A	
DNEL long-term inhalative (local)	Not established	N/A	
DNEL long-term inhalative (systemic)	Not established	N/A	

# **DNEL Consumer**

# PNEC

PNEC type	PNEC value	Assessment factor	Remark
PNEC aquatic,	Not established	N/A	
freshwater			
PNEC aquatic,	Not established	N/A	
marine water			
PNEC aquatic,	Not established	N/A	
intermittent releases			
PNEC sediment,	Not established	N/A	
freshwater			
PNEC sediment,	Not established	N/A	
marine water			
PNEC soil,	Not established	N/A	
freshwater			
PNEC soil, marine	Not established	N/A	
water			
PNEC soil, marine	Not established	N/A	
water			
PNEC sewage	Not established	N/A	
treatment plant			
(STP)			
PNEC air	Not established	N/A	
PNEC secondary	Not established	N/A	
poisoning			

According to Regulation (EC) No 1907/2006 (REACH)

Version: 2.1/EN 7 Revision Date: 1-17-2023

# 8.1.6 Risk management measures according to used control banding approach

None

#### 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls:

Use of an externally vented or internally ducted fume hood can reduce formation of nuisance dust.

# 8.2.2 Personal protective equipment:

#### 8.2.2.1 Eye/Face protection

The use of eye protection in the form of safety glasses with side shields is suggested. Use chemical splash goggles and face shield.

## 8.2.2.2 Skin protection

Latex or equivalent gloves

## 8.2.2.3 Respiratory protection:

Particulate respirator (N95 type) is suitable for reducing any nuisance dust.

## 8.2.2.4 Thermal hazards:

None

## 8.2.3 Environment exposure controls:

None

#### 8.2.4 Consumer exposure control

Material is provided only for research and development usage. As such it is not intended for household, drug, food or other direct consumer usage.

## Section 9. Physical and chemical properties

# 9.1 Information on basic physical and chemical properties

#### 9.1.1 Appearance:

Physical state: Gelatinous to Solid depending on molecular weight

Colour: White/colorless to tan

Odour: None

Odour threshold: NA

#### 9.1.2 Safety relevant basic data

	Value	Concentration	Method	temperature	Pressure	remark
pН	Not					
-	established					
Melt point	Not					
_	established					

According to Regulation (EC) No 1907/2006 (REACH)

Version: 2.1/EN 8 Revision Date: 1-17-2023

Boiling point	Not			
Doming point	established			
Flashpoint	Not			
Tushpoint	established			
Evaporation	Not			
rate	established			
Flammability	Not			
,	established			
Upper	Not			
explosive	established			
limits				
Lower	Not			
explosive	established			
limits				
Vapor	Not			
pressure	established			
Vapor density	Not			
	established			
Relative	Not			
density	established			
Solubility in	Not			
water	established			
Partition	Not			
coefficient (n-	established			
octanol/water)				
Auto-ignition	Not			
temperature	established			
Decomposition	Not			
temperature	established			
Viscosity	Not			
dynamic	established			
Viscosity	Not			
kinematic	established			
Explosive	Not			
properties	established			
Oxidizing	Not			
properties	established			

# 9.1.3 Physicial hazards:

Explosives: Material is not explosive

Flammable gases: Material is not a flammable gas Flammable aerosols: Material is not a flammable aerosol

Oxidizing gases: material is not an oxidizing gas

Gases under pressure: Material is not a gas under pressure Flammable liquids: Material is not a flammable liquid Flammable solids: Material is not a flammable solid.

Self-reactive substances and mixtures: Material is not a self-reactive substance or mixture.

Pyrophoric liquid: Material is not a pyrophoric liquid

According to Regulation (EC) No 1907/2006 (REACH)

Version: 2.1/EN 9 Revision Date: 1-17-2023

Pyrophoric solid: Material is not a pyrophoric solid.

Self heating substances and mixtures: Material is not a self-heating substance or mixture Substances or mixtures which, in contact with water emit flammable gases: Material is not a

Substance or mixture which, in contact with water emits a flammable gases.

Oxidizing liquids: Material is not an oxidizing liquid. Oxidizing solids: Material is not an oxidizing solid. Organic peroxides: Material is not an organic peroxide. Metal corrosion: Material does not cause metal corrosion.

#### 9.2 Other information

None

# Section 10: Stability and reactivity

# 10.1 Reactivity

Material may slowly hydrolyze to non-toxic components in presence of water. Oxidizers, reducing agents, nucleophiles, and other aggressive reagents may react with the material in accordance with the reagent's normal effects.

# 10.2 Chemical stability

When stored properly material is stable for two years.

# 10.3 Possibility of hazardous reactions

None

#### 10.4 conditions to avoid:

Heat and water may cause degradation of the material. Material should not be exposed to any reagent which reacts with it. These conditions do not present a danger but may damage the material potentially rendering it unusable.

## 10.5 incompatible materials:

Strong oxidizers/aggressive nucleophiles/reducing agents.

# 10.6 hazardous decomposition products:

None

#### Section 11: Toxicological information

The toxicological properties of the substance have not been established.

Acute data: no data Subchronic data: no data

## Section 12: Ecological information.

The ecological impact of the substance has not been established.

## Section 13: Disposal considerations

According to Regulation (EC) No 1907/2006 (REACH)

Version: 2.1/EN 10 Revision Date: 1-17-2023

The material is not listed in USA 40 CFR Part 261.33 for hazardous disposal. The material must be disposed of in compliance with all Federal, State and Local Regulations.

#### **Section 14: Transport information**

Refer to bill of lading or container label for DOT or other transportation hazard classification, if any. Material is not considered hazardous for transportation.

# **Section 15 Regulatory information**

15.1 The material is not a regulated or restricted substance. Material is not intended for clinical or human usage.

## 15.1.1 EU regulations

None

#### 15.1.2 National/State Regulations

*Prop 65* – Column A identifies those items which are known to the State of California to cause cancer.

Column B identifies those items which are known to the State of California to cause reproductive toxicity.

CAS# Column A Column B
NA no no

State Regulatory Information – If a CAS# is listed below, this material is subject to the listed state right-to-know requirements.

CAS#: NA not listed

SARA Toxic Release Chemicals (as defined in Section 313 of SARA Title III) – This list identifies the toxic chemicals, including their de minimis concentrations, for which reporting is required under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA). The list is also referred to as the Toxics Release Inventory (TRI) List.

CAS#Regulated NameDe Minimis Conc.% Rep. Thres.NAnot listednot listed

SARA Extremely Hazardous Substances and TPQs — This list includes hazardous chemicals as defined in 29 CFR 1910.1200(c) and extremely hazardous substances regulated under Section 302 of SARA Title III with their threshold planning quantities (TPQs), as listed in 40 CFR 355, Appendices A and B.

CAS#	<u>Regulated Name</u>	<u>TPQ (pounds)</u>	EHS-RQ
(pounds)			
NA	not listed	not listed	not listed

According to Regulation (EC) No 1907/2006 (REACH)

Version: 2.1/EN 11 Revision Date: 1-17-2023

CERCLA – The hazardous substances and their reportable quantities (RQs) are listed in the federal regulations at 40 CFR Part 302, Table 302.4. Release of a CERCLA hazardous substance in an amount equal to or greater than its RQ, in any 24-hour period, must be reported to the National Response Center at (800) 424-8802.

<u>CAS#</u> Regulated Name RQ (pounds)
NA not listed not listed

#### 15.2 Chemical safety assessment:

For this substance a chemical safety assessment is not required

#### **Section 16: Other information**

Akina, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. Akina, Inc. makes no representations or warranties, either expressed or implied, of merchantability, fitness for particular purposes with respect to the information set forth herein or to which the information refers. Accordingly, Akina, Inc. will not be responsible for damages resulting from the use of or reliance upon this information.