



Last revised date : 06/01/2024

Safety Data Sheet(SDS)

1. Identification of the substance/mixture and of the company/undertaking

- 1) Product identifier : ASA LI931C
- 2) Relevant identified uses of the substance or mixture and uses advised against
 - Relevant identified uses
48.Others (Manufacture of plastics products)
 - Uses advised against
Used only recommended uses
- 3) Supplier information
 - Company name [Manufacturer]
Company : LG Chem Ohio Petrochemical, Inc.
Address : 310 Rayann Pkwy, Ravenna, OH-44266

Emergency number : 1-800-424-9300

2. HAZARD IDENTIFICATION

- 1) Hazard classification
No data available
- 2) Allocation label elements
Hazard pictograms

- NONE

Hazard statements

No data available

Precautionary statements

No data available
- 3) Other hazards

- Product NFPA Level

Health	Flammability	Reactivity
2	0	0

(※ 0 = Stable , 1 = Low , 2 = Medium , 3 = High , 4 = Very High)

3. Composition/Information on ingredients

Components	Common name	CAS No.	PCT(wt%)
2-Propenoic acid butyl ester polymer with ethenylbenzene and 2-propenenitrile	2-Propenoic acid butyl ester polymer with ethenylbenzene and 2-propenenitrile	26299-47-8	90 ~ 99
Poly[imino(1,6-dioxo-1,6-hexanediyl)imino-1,6-hexanediyl]	Poly[imino(1,6-dioxo-1,6-hexanediyl)imino-1,6-hexanediyl]	32131-17-2	1 ~ 5
Decanedioic acid bis(2,2,6,6-tetramethyl-4-piperidiny) ester	Decanedioic acid bis(2,2,6,6-tetramethyl-4-piperidiny) ester	52829-07-9	< 1

4. FIRST AID MEASURES

- 1) Following eye contact
No data available
- 2) Following skin contact
No data available
- 3) Following inhalation
No data available
- 4) Following ingestion
No data available
- 5) Advice to physician
No data available

5. FIRE FIGHTING MEASURES

- 1) Suitable (and unsuitable) extinguishing media
 - Suitable extinguishing media
 - No data available
 - Unsuitable extinguishing media
 - No data available
- 2) Special hazards arising from the substance or mixture
 - Pyrolytic product
 - No data available
 - Risk of fire and explosion
 - No data available
 - Other
 - No data available
- 3) Special protective equipment for firefighters
 - No data available

6. ACCIDENTAL RELEASE MEASURES

- 1) Health considerations and protective equipment
No data available
- 2) Environmental precautions
No data available
- 3) For cleaning up
No data available

7. HANDLING AND STORAGE

- 1) Precautions for safe handling
No data available
- 2) Conditions for safe storage (including any incompatibilities)
No data available

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components	Occupational exposure limits	ACGIH	Biological standard
2-Propenoic acid butyl ester polymer with ethenylbenzene and 2-propenenitrile	TWA : Not applicable STEL : Not applicable	TWA : Not applicable STEL : Not applicable	Not applicable
Poly[imino(1,6-dioxo-1,6-hexanediyl)imino-1,6-hexanediyl]	TWA : Not applicable STEL : Not applicable	TWA : Not applicable STEL : Not applicable	Not applicable
Decanedioic acid bis(2,2,6,6-tetramethyl-4-piperidinyI) ester	TWA : Not applicable STEL : Not applicable	TWA : Not applicable STEL : Not applicable	Not applicable

- 2) Appropriate engineering controls
 - Not applicable
- 3) Personal protection equipment
 - Respiratory protection
 - If high frequency of use or exposure, wear air respirator.
 - Wear breathing protection, which needs a confirmation from the Korea Occupational Safety and Health Agency.
 - Eye protection
 - Wear suitable protective goggles and face shields.
 - Hand protection
 - Wear suitable protective gloves.
 - Body protection
 - Wear suitable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	No data available
Physical state	solid
Colour	No data available
Odour	No data available
Odour threshold	No data available
pH	No data available
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability(solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Solubility(ies)	No data available
Vapour density	No data available
Relative density	1.07
n-octanol/water partition coefficient	No data available
Auto ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Molecular weight(mass)	No data available

10. STABILITY AND REACTIVITY

- 1) Stability and hazardous reactivity
No data available
- 2) Conditions to avoid
No data available
- 3) Incompatible materials
No data available
- 4) Hazardous decomposition products
No data available

11. TOXICOLOGICAL INFORMATION

- 1) Exposure route information
 - Inhalation

- Not applicable
- Skin Contact
 - Not applicable
- Eye Contact
 - Not applicable
- Ingestion
 - Not applicable

2) Health hazard information

- Acute toxicity
 - Acute toxicity(Oral) PRODUCT : Not classified
 - 2-Propenoic acid butyl ester polymer with ethenylbenzene and 2-propenenitrile : LD50> 5000 mg / kg experimental species: Rat, (GE Specialty Chemicals)
 - Poly[imino(1,6-dioxo-1,6-hexanediyl)imino-1,6-hexanediyl] : No data available
 - Decanedioic acid bis(2,2,6,6-tetramethyl-4-piperidiny) ester : No data available
 - Acute toxicity(Dermal) PRODUCT : Not classified
 - 2-Propenoic acid butyl ester polymer with ethenylbenzene and 2-propenenitrile : LD50> 2000 mg / kg experimental species: Rabbit, (GE Specialty Chemicals)
 - Poly[imino(1,6-dioxo-1,6-hexanediyl)imino-1,6-hexanediyl] : No data available
 - Decanedioic acid bis(2,2,6,6-tetramethyl-4-piperidiny) ester : No data available
 - Acute toxicity(Inhalation:Gases) PRODUCT : Not classified
 - 2-Propenoic acid butyl ester polymer with ethenylbenzene and 2-propenenitrile : LD50> 2000 mg / kg experimental species: Rabbit, (GE Specialty Chemicals)
 - Poly[imino(1,6-dioxo-1,6-hexanediyl)imino-1,6-hexanediyl] : No data available
 - Decanedioic acid bis(2,2,6,6-tetramethyl-4-piperidiny) ester : No data available
 - Acute toxicity(Inhalation:Vapours) PRODUCT : Not classified
 - 2-Propenoic acid butyl ester polymer with ethenylbenzene and 2-propenenitrile : No data available
 - Poly[imino(1,6-dioxo-1,6-hexanediyl)imino-1,6-hexanediyl] : No data available
 - Decanedioic acid bis(2,2,6,6-tetramethyl-4-piperidiny) ester : No data available
 - Acute toxicity(Inhalation:Dust/mist) PRODUCT : Not classified(ATEmix = 9.075mg/L)
 - 2-Propenoic acid butyl ester polymer with ethenylbenzene and 2-propenenitrile : No data available
 - Poly[imino(1,6-dioxo-1,6-hexanediyl)imino-1,6-hexanediyl] : LC50 7.26 mg / l 4 hr experiment
Species: Rat, Source: Corporate Solution From Thomson
Micromedex(<http://csi.micromedex.com>)
 - Decanedioic acid bis(2,2,6,6-tetramethyl-4-piperidiny) ester : LC50 500 mg / m³ 4 hr
experimental species: Rat, Source: National Library of Medicine(NLM)
- Skin corrosion/irritation PRODUCT : Not classified
 - 2-Propenoic acid butyl ester polymer with ethenylbenzene and 2-propenenitrile : No data available
 - Poly[imino(1,6-dioxo-1,6-hexanediyl)imino-1,6-hexanediyl] : Causes severe skin irritation (which may cause burns)
 - Decanedioic acid bis(2,2,6,6-tetramethyl-4-piperidiny) ester : No data available

- Serious eye damage/eye irritation PRODUCT : Not classified
 - 2-Propenoic acid butyl ester polymer with ethenylbenzene and 2-propenenitrile : No data available
 - Poly[imino(1,6-dioxo-1,6-hexanediyl)imino-1,6-hexanediyl] : The search eye irritation irritation of the skin on the basis of suspicion
 - Decanedioic acid bis(2,2,6,6-tetramethyl-4-piperidiny) ester : No data available
- Respiratory sensitization PRODUCT : Not classified
 - 2-Propenoic acid butyl ester polymer with ethenylbenzene and 2-propenenitrile : No data available
 - Poly[imino(1,6-dioxo-1,6-hexanediyl)imino-1,6-hexanediyl] : No data available
 - Decanedioic acid bis(2,2,6,6-tetramethyl-4-piperidiny) ester : No data available
- Skin sensitization PRODUCT : Not classified
 - 2-Propenoic acid butyl ester polymer with ethenylbenzene and 2-propenenitrile : No data available
 - Poly[imino(1,6-dioxo-1,6-hexanediyl)imino-1,6-hexanediyl] : No data available
 - Decanedioic acid bis(2,2,6,6-tetramethyl-4-piperidiny) ester : No data available
- Carcinogenicity PRODUCT : Not classified
 - 2-Propenoic acid butyl ester polymer with ethenylbenzene and 2-propenenitrile : No data available
 - Poly[imino(1,6-dioxo-1,6-hexanediyl)imino-1,6-hexanediyl] : No data available
 - Decanedioic acid bis(2,2,6,6-tetramethyl-4-piperidiny) ester : No data available
- Germ cell mutagenicity PRODUCT : Not classified
 - 2-Propenoic acid butyl ester polymer with ethenylbenzene and 2-propenenitrile : No data available
 - Poly[imino(1,6-dioxo-1,6-hexanediyl)imino-1,6-hexanediyl] : No data available
 - Decanedioic acid bis(2,2,6,6-tetramethyl-4-piperidiny) ester : No data available
- Reproductive toxicity PRODUCT : Not classified
 - 2-Propenoic acid butyl ester polymer with ethenylbenzene and 2-propenenitrile : No data available
 - Poly[imino(1,6-dioxo-1,6-hexanediyl)imino-1,6-hexanediyl] : No data available
 - Decanedioic acid bis(2,2,6,6-tetramethyl-4-piperidiny) ester : No data available
- Specific target organ toxicity single exposure PRODUCT : Not classified
 - 2-Propenoic acid butyl ester polymer with ethenylbenzene and 2-propenenitrile : No data available
 - Poly[imino(1,6-dioxo-1,6-hexanediyl)imino-1,6-hexanediyl] : When inhaled causes irritation of the airway
 - Decanedioic acid bis(2,2,6,6-tetramethyl-4-piperidiny) ester : No data available
- Specific target organ toxicity repeated exposure PRODUCT : Not classified
 - 2-Propenoic acid butyl ester polymer with ethenylbenzene and 2-propenenitrile : No data available
 - Poly[imino(1,6-dioxo-1,6-hexanediyl)imino-1,6-hexanediyl] : No data available
 - Decanedioic acid bis(2,2,6,6-tetramethyl-4-piperidiny) ester : No data available
- Aspiration hazard PRODUCT : Not classified

- 2-Propenoic acid butyl ester polymer with ethenylbenzene and 2-propenenitrile : No data available
- Poly[imino(1,6-dioxo-1,6-hexanediyl)imino-1,6-hexanediyl] : No data available
- Decanedioic acid bis(2,2,6,6-tetramethyl-4-piperidiny) ester : No data available

12. ECOLOGICAL INFORMATION

1) Aquatic toxicity > PRODUCT : Not classified

- Fish

- 2-Propenoic acid butyl ester polymer with ethenylbenzene and 2-propenenitrile : No data available
- Poly[imino(1,6-dioxo-1,6-hexanediyl)imino-1,6-hexanediyl] : No data available
- Decanedioic acid bis(2,2,6,6-tetramethyl-4-piperidiny) ester : LC50 4.3 mg / l 96 hr
Oncorhynchus mykiss (solubility <1mg / L), Source: OECD Screening Information Data Set(<http://cs3-hq.oecd.org/scripts/hpv/>)

- Crustacea

- 2-Propenoic acid butyl ester polymer with ethenylbenzene and 2-propenenitrile : No data available
- Poly[imino(1,6-dioxo-1,6-hexanediyl)imino-1,6-hexanediyl] : No data available
- Decanedioic acid bis(2,2,6,6-tetramethyl-4-piperidiny) ester : No data available

- Aquatic Algae

- 2-Propenoic acid butyl ester polymer with ethenylbenzene and 2-propenenitrile : No data available
- Poly[imino(1,6-dioxo-1,6-hexanediyl)imino-1,6-hexanediyl] : No data available
- Decanedioic acid bis(2,2,6,6-tetramethyl-4-piperidiny) ester : EC50 1.9 mg / l 96 hr
Scenedesmus subspicatus (solubility <1mg / L), Source: OECD Screening Information Data Set(<http://cs3-hq.oecd.org/scripts/hpv/>)

2) Persistence and degradation

- n-octanol water partition coefficient

- 2-Propenoic acid butyl ester polymer with ethenylbenzene and 2-propenenitrile : (Not applicable)
- Poly[imino(1,6-dioxo-1,6-hexanediyl)imino-1,6-hexanediyl] : No data available
- Decanedioic acid bis(2,2,6,6-tetramethyl-4-piperidiny) ester : 6.50 log Kow (estimated)

- Degradation

- 2-Propenoic acid butyl ester polymer with ethenylbenzene and 2-propenenitrile : No data available
- Poly[imino(1,6-dioxo-1,6-hexanediyl)imino-1,6-hexanediyl] : No data available
- Decanedioic acid bis(2,2,6,6-tetramethyl-4-piperidiny) ester : No data available

- Biodegradation

- 2-Propenoic acid butyl ester polymer with ethenylbenzene and 2-propenenitrile : No data available
- Poly[imino(1,6-dioxo-1,6-hexanediyl)imino-1,6-hexanediyl] : No data available
- Decanedioic acid bis(2,2,6,6-tetramethyl-4-piperidiny) ester : ~ 10 24 (%) (%) 28 day (biodegradable), Source: OECD Screening Information Data Set(<http://cs3-hq.oecd.org/scripts/hpv/>)

3) Bioaccumulative potential

- 2-Propenoic acid butyl ester polymer with ethenylbenzene and 2-propenenitrile : No data available
- Poly[imino(1,6-dioxo-1,6-hexanediyl)imino-1,6-hexanediyl] : No data available

- Decanedioic acid bis(2,2,6,6-tetramethyl-4-piperidiny) ester : 638 (solubility <1mg / L),
Source: Quantitative Structure Activity Relation(QSAR)

4) Mobility in soil

- 2-Propenoic acid butyl ester polymer with ethenylbenzene and 2-propenenitrile : No data available
- Poly[imino(1,6-dioxo-1,6-hexanediyl)imino-1,6-hexanediyl] : No data available
- Decanedioic acid bis(2,2,6,6-tetramethyl-4-piperidiny) ester : No data available

5) Other adverse effects > PRODUCT : Not classified

- 2-Propenoic acid butyl ester polymer with ethenylbenzene and 2-propenenitrile : No data available
- Poly[imino(1,6-dioxo-1,6-hexanediyl)imino-1,6-hexanediyl] : No data available
- Decanedioic acid bis(2,2,6,6-tetramethyl-4-piperidiny) ester : No data available

13. DISPOSAL CONSIDERATIONS

1) Disposal methods

- Every commercial waste producer shall either treat wastes generated from his/her place of business by him/herself or commission the treatment of such wastes to a person who has license for a waste treatment business under Article 26(3), a person who recycles of such wastes under Article 44(2), a person who has installed and operates a waste disposal facility under Article 4 or 5, a person who has completed the registration of a business of discharging wastes into the sea under Article 18 of the Marine Environment Management Act.

2) Precautions (including disposal of contaminated container of package)

- Do not allow spill material to enter sewers, storm water drains, soil, etc.

14. TRANSPORT INFORMATION

1) UN No. : Not applicable

2) Proper shipping name : Not applicable

3) Class or division : Not applicable

4) Packing group : Not applicable

5) Marine pollutant : Not applicable

6) Special safety response for transportation or transportation measure :

Emergency measures in case of fire : Not applicable

Emergency measures in the effluent : Not applicable

- ADR

- Tunnel restriction code : Not applicable

- IMDG

- Marine pollutant : Not applicable

- Air transport(IATA)

- UN No. : Not applicable
- Proper shipping name : Not applicable
- Class or division : Not applicable
- Packing group : Not applicable

15. REGULATORY INFORMATION

- Global Inventory - USA. List of Active Substances on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory (as amended through 20 February 2024)
 - 2-Propenoic acid butyl ester polymer with ethenylbenzene and 2-propenenitrile
 - Poly[imino(1,6-dioxo-1,6-hexanediyl)imino-1,6-hexanediyl]
 - Decanedioic acid bis(2,2,6,6-tetramethyl-4-piperidiny) ester
- ETC regulation - EPCRA (SARA Title III) Section 302 Extremely Hazardous Substance (EHS) (40 CFR 355, Appendix A)
Not applicable
- ETC regulation - OSHA Hazard Communication Standard: On One of the Floor Lists of the OSHA HCS (29 CFR 1910.1200)
Not applicable
- ETC regulation - EPCRA (SARA Title III) Section 313 Toxic Chemical Release Inventory (TRI) Reporting (as amended through 31 October 2023)
Not applicable
- ETC regulation - CERCLA Hazardous Substances [other than radionuclides] (40 CFR 302.4) (as amended by 75 FR 78918, Dec. 17, 2010)
Not applicable
- ETC regulation - RCRA Appendix VII: Hazardous Wastes (40 CFR 261, App. VII, Basis for Listing Hazardous Waste)
Not applicable
- ETC regulation - CERCLA. Radionuclides and their Reportable Quantities (40 CFR 302.4, App. B)

Not applicable
- ETC regulation - RCRA D List of Characteristic Hazardous Wastes (40 CFR 261.21-24)

Not applicable
- ETC regulation - RCRA F List of Hazardous Wastes from Non-Specific Sources (40 CFR 261.31(a)) (as amended by 73 FR 31756, June 4, 2008)
Not applicable
- ETC regulation - RCRA K List of Hazardous Wastes from Specific Sources (40 CFR 261.32)

Not applicable
- ETC regulation - RCRA P List of Hazardous Wastes (40 CFR 261.33(e) and 40 CFR 302 [CERCLA])
Not applicable
- ETC regulation - RCRA U List of Hazardous Wastes (40 CFR 261.33(f) and 40 CFR 302 [CERCLA], as amended 75 FR 78918, Dec 17, 2010)
Not applicable
- ETC regulation - DOT Hazardous Materials Table Listings (49 CFR 172.101, as amended through October 31, 2013)
Not applicable

- ETC regulation - EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

Not applicable

16. OTHER INFORMATION

1) Reference

- CERI
- Corporate Solution From Thomson Micromedex(<http://csi.micromedex.com>)
- Directivw 87/302/EEC, GLP . IUCLID
- ECHA
- ECHA registration materials
- ECOSAR
- EPA
- EU IUCLID
- IUCLID
- International Uniform Chemical Information Database(IUCLID)(<http://ecb.jrc.it/esis>)
- NCIS existing chemical safety testing
- National Library of Medicine(NLM)
- OECD SIDS
- OECD SIDS, EU IUCLID
- OECD Screening Information Data Set(<http://cs3-hq.oecd.org/scripts/hpv/>)
- OECD TG 301 C . OECD SIDS
- OECD TG404, OECD SIDS
- OECD TG423, Ministry of existing chemical safety testing (2001-2004)
- OSHA
- QSAR
- Quantitative Structure Activity Relation(QSAR)
- SIDS

2) Revision date

- Revised date count : 0
- Last revised date : 06/01/2024
- Last revised history :

3) Other