

Safety Data Sheet as per Globally Harmonized System (GHS)

Galguard LipoG

Version No. 3 Revised on: June 15, 2021

1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

GHS Product identifier

Trade Name	: Galguard LipoG
Chemical identity of ingredients that contribute to classification	: Undecylenoyl Glycine, Capryloyl Glycine
Recommended use of the chemical and restrictions on use	
Use of the substance/mixture	: Ingredient in Personal and Home Care products
Supplier's details	: Galaxy Surfactants Limited C-49/2, TTC Industrial Area Pawne, Navi Mumbai, 400703, India Tel: +91-22-27616666 / +91-22-39135500 e-mail: galaxy@galaxysurfactants.com
Emergency telephone number	: For product information: +91-9967540569 / +91-9867673376 (Language: English) For Incident (Spill, Leak, Fire, Exposure, or Accident) CHEMTREC (Day or Night): +1 703-741-5970 / 1-800-424-9300

2. HAZARD IDENTIFICATION

Classification of the substance or mixture:

Eye damage Category 1; H318

Acute aquatic toxicity Category 2; H401

Chronic aquatic toxicity Category 3; H412

GHS label elements, including precautionary statements

Hazard pictogram:



Signal word: Danger

Hazard statement(s):

H318: Causes serious eye damage.

H401: Toxic to aquatic life.

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Most important symptoms/effects,
acute and delayed

Eye contact : Causes serious eye damage

Indication of immediate medical attention and
special treatment needed, if necessary

Treatment : Treat symptomatically

5. FIRE- FIGHTING MEASURES

Suitable extinguishing media : Dry chemical powder, carbon dioxide, foam, water spray

Unsuitable extinguishing media : Do not use direct water stream, which may spread fire

Specific hazards arising from the chemical : Development of hazardous combustion products like oxides
of carbon, nitrogen or vapours possible in the event of fire

Special protective equipment and precautions
for fire-fighters : Wear personal protective equipment and self-contained
breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment
and emergency procedures : Use personal protective equipment. Wash hands after exposure
with the product. Avoid breathing dust. Avoid contact with skin,
eyes and clothing

Environmental precautions : Do not discharge into drains, surface water or ground water

Methods and materials for containment
and cleaning up : Collect in suitable and properly labelled container. Avoid dust
formation. Dispose off collected material in accordance with
regulations

7. HANDLING AND STORAGE

Precautions for safe handling : Follow general occupational hygiene such as, wash hands after
use. Remove contaminated clothing. Avoid spill. Use appropriate
personal protective equipment while handling the material.
Avoid dusting during usage. Use proper dust collection system
to avoid particle contamination in the production area. Follow
safe procedures for loading and un-loading of product

§Conditions for safe storage, including
any incompatibilities : Store the material in a clean, dry place at < 40°C away from
direct heat and sunlight. Keep the container tightly closed. Colour
of the product may deteriorate on exposure to heat and sunlight.
In original sealed condition, when stored as suggested, the shelf

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	life of product is two years. Once drum/bag is opened, consume the product within a week
	Stacking of drums/bags: palletized - Single, both while transport and single during storage
§Suitable packing materials	: Paper fiber drums with HDPE liner/Kraft paper bags with HDPE liner
Unsuitable packing materials	: Metal containers

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational exposure limits	: Not known
Biological limit values	: Not known
Appropriate engineering controls	: Proper plant design, technical measures and working operations should minimize human exposure
Individual protection measures, such as personal protective equipment (PPE)	: Eye/face protection: Safety goggles Skin protection: Apron, rubber gloves and shoes Respiratory protection : Dust mask is required when dust is generated

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state	: Flakes
Colour	: Pale yellow to yellow
Odour	: Fatty
Odour threshold	: No data available
pH (1% aqueous dispersion)	: 2.5 - 3.5 at 25°C
Melting point	: 85 - 95°C
Initial boiling point and boiling range	: Not applicable
Flash point	: Not applicable
Evaporation rate	: Not applicable
Flammability (solid, gas)	: Not flammable
Upper/lower flammability or explosive limits	: Not applicable
Vapour pressure	: Not applicable

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Vapour density	: Not applicable
Bulk density	: 550 - 650 g/l
Solubility(ies)	: Insoluble in water, soluble in methanol and isopropyl alcohol
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: > 100°C
Viscosity	: Not applicable

10. STABILITY AND REACTIVITY

Reactivity	: No hazardous reactions, if stored and handled as prescribed (Refer Section 7)
Chemical stability	: Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure
Possibility of hazardous reactions	: Not anticipated when used or handled as prescribed
Conditions to avoid	: Sunlight, heat, flame and other sources of ignition
Incompatible materials	: Acids, alkali, oxidising or reducing agents
Hazardous decomposition products	: Will not form, if stored or handled as prescribed

11. TOXICOLOGICAL INFORMATION

§Toxicological information of Undecylenoyl Glycine

Acute oral toxicity (Rat)	: LD ₀ : > 2000 mg/kg bw (OECD Guideline 401)
Acute dermal toxicity (Rat)	: LD ₀ : > 2000 mg/kg bw (OECD Guideline 402/EU Method B.3)
Acute inhalation toxicity	: No data available
Skin corrosion/irritation (Rabbit)	: Not irritating (OECD Guideline 404)
Serious eye damage/irritation (Rabbit)	: Irritating with effects not fully reversible within 21 days (OECD Guideline 405)
Respiratory or skin sensitization (Guinea pig)	: Not sensitizing (OECD Guideline 406)

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Germ cell mutagenicity

- In vitro mammalian cell gene mutation test : Negative
(OECD Guideline 490)
- In vitro mammalian chromosome aberration test : Negative
(OECD Guideline 473)
- Bacterial reverse mutation assay (in vitro) : Negative
(OECD Guideline 471/Directive 92/69/EEC Method B14/EPA (TSCA))
- Carcinogenicity : No data available
- Reproductive toxicity : Not classified

Toxicity to reproduction (Rat):
NOAEL (Parental toxicity): 200 mg/kg bw/day (nominal)
NOEL (reproduction (mating and fertility)/offspring toxicity):
200 mg/kg bw/day (nominal)
(OECD Guideline 422)
Read-across approach

Toxicity to reproduction (Rat):
NOAEL (reproductive performance): 450 mg/kg bw/day
NOAEL (parental toxicity): 150 mg/kg bw/day
(OECD Guideline 421)
Read-across approach

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Repeated dose toxicity: Oral (Rat):
NOAEL: 150 mg/kg bw/day
NOEL: 15 mg/kg bw/day
(OECD Guideline 407 / EU Method B.7)

Aspiration hazard : Not classified

Toxicological information of Capryloyl Glycine

Acute oral toxicity (Rat) : LD₅₀: > 10000 mg/kg bw

Acute dermal toxicity (Rat) : LD₅₀: > 2000 mg/kg bw
(OECD Guideline 402)

Acute inhalation toxicity : No data available

Skin corrosion/irritation (Rabbit) : Irritating
(OECD Guideline 404)

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Serious eye damage/irritation (Rabbit)	: Irritating (OECD Guideline 405)
Respiratory or skin sensitization (Guinea pig)	: Not sensitizing (Guideline: BIOGIR SA Protocole SMK)
Germ cell mutagenicity	
Bacterial reverse mutation assay (in vitro)	: Non-mutagenic (OECD Guideline 471)
Mammalian cell gene mutation assay (in vitro)	: Non-mutagenic (OECD Guideline 476)
In vitro mammalian chromosome aberration test	: Negative (OECD Guideline 473)
Carcinogenicity	: No data available
Reproductive toxicity	: Not classified Toxicity to reproduction: Oral (Rat): NOAEL parental toxicity: 200 mg/kg bw/day NOEL reproduction (mating and fertility): 200 mg/kg bw/day NOEL offspring toxicity: 200 mg/kg bw/day (OECD Guideline 422)
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified Repeated dose toxicity: Oral (Rat): NOAEL: 200 mg/kg bw/day (OECD Guideline 422)
Aspiration hazard	: Not classified
Information on the likely routes of exposure	: Inhalation, dermal and oral
Symptoms related to the physical, chemical and toxicological characteristics	: Eye contact: Causes serious eye damage
Delayed and immediate effects and also chronic effects from short and long term exposure	: Short term exposure: Not known Long term exposure: Not known

12. ECOLOGICAL INFORMATION

§Ecological information of Undecylenoyl Glycine

Short-term toxicity to fish	: LC ₅₀ (96 h): 131 mg/l (QSAR method)
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Long-term toxicity to fish	: No data available
Short-term toxicity to aquatic invertebrates	: Daphnia magna EC ₅₀ (48 h): > 100 mg/l (OECD Guideline 202)
Long-term toxicity to aquatic invertebrates	: No data available
Toxicity to aquatic algae	: Desmodesmus subspicatus EC ₅₀ (72 h): ≥ 10 - ≤ 100 mg/l (based on growth rate) NOEC (72 h): 1 mg/l (based on growth rate) (Equivalent or similar to OECD Guideline 201)
Persistence and degradability	: Not readily biodegradable; 62% after 28 days (CO ₂ evolution) OECD Guideline 301 B (Ready Biodegradability: CO ₂ Evolution Test)
Bioaccumulative potential	: Log P _{ow} : 2.2 at 20°C (HPLC method)
Mobility in soil	: Adsorption coefficient Log K _{oc} : 2.16 (QSAR calculation)
Other adverse effects	: Not known

Ecological information of Capryloyl Glycine

Short-term toxicity to fish	: Danio rerio LC ₅₀ (96 h): > 100 mg/l (OECD Guideline 203)
Long-term toxicity to fish	: No data available
Short-term toxicity to aquatic invertebrates	: Daphnia magna EC ₅₀ (48 h): > 100 mg/l (OECD Guideline 202)
Long-term toxicity to aquatic invertebrates	: No data available
Toxicity to aquatic algae	: Green alga EC ₅₀ (96 h): 4.644 mg/l (QSAR)
Persistence and degradability	: Readily biodegradable; 86 % after 28 days (CO ₂ evolution) OECD Guideline 301 B (Ready Biodegradability: CO ₂ Evolution Test)
Bioaccumulative potential	: Log P _{ow} : 2.052 (OECD Guideline 117/EU Method A.8)
Mobility in soil	: Log K _{oc} : < 1.25 (OECD Guideline 121)
Other adverse effects	: Not known

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13. DISPOSAL CONSIDERATIONS

Disposal methods : Dispose off contents/container in accordance with local/regional/national/international regulations

14. TRANSPORT INFORMATION

Land transport

ADR/RID : Not classified as dangerous goods as per transport regulation
 UN Number : Not applicable
 UN proper shipping name : Not applicable
 Transport hazard class(es) : Not applicable
 Packing group : Not applicable
 Environmental hazards : Not applicable

Inland water ways transport

ADN : Not classified as dangerous goods as per transport regulation
 UN Number : Not applicable
 UN proper shipping name : Not applicable
 Transport hazard class(es) : Not applicable
 Packing group : Not applicable
 Environmental hazards : Not applicable

Sea transport

IMDG code : Not classified as dangerous goods as per transport regulation
 UN Number : Not applicable
 UN proper shipping name : Not applicable
 Transport hazard class(es) : Not applicable
 Packing group : Not applicable
 Marine pollutant : Not applicable

Air transport

ICAO-TI/IATA-DGR : Not classified as dangerous goods as per transport regulation
 UN Number : Not applicable
 UN proper shipping name : Not applicable
 Transport hazard class(es) : Not applicable
 Packing group : Not applicable
 Environmental hazards : Not applicable

15. REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product in question : Refer to all applicable national, international and local regulations or provisions



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16. OTHER INFORMATION

Revision Number	: GHS / Revision 2
Indication of changes	: Indicated with symbol '§'
Legend/acronym	: GHS - Globally Harmonized System STOT - Specific Target Organ Toxicity
Source of information	: In-house and literature

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