



SunLab Moisturising Lotion Spray SPF50

Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010
Issue date: 4/28/2023 Revision date: 11/26/2024 Version: 1.0

SECTION 1: Identification

1.1. Product identifier

Product form : Mixture
Trade name : SunLab Moisturising Lotion Spray SPF50
Type of product : Sunscreen products
Product code : 120269, 410616
Product group : Trade product

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

Use of the substance/mixture :

1.3. Supplier's details

Manufacturer

Shield Chemicals (Pty) Ltd
9 London Rd Apex
P.O. Box 1939
1501 Benoni – Gauteng
South Africa
T (011) 421 7111
Contact: Jayson Clark

1.4. Emergency telephone number

Emergency number : (011) 421 7111

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Aerosol, Category 1 H222;H229
Hazardous to the aquatic environment – Acute Hazard, Category 2 H401
Full text of H-statements: see section 16

2.2. Label elements

Labelling according to the United Nations GHS

Hazard pictograms (GHS ZA) :



Signal word (GHS-ZA) : Danger
Hazard statements (GHS ZA) : H222 - Extremely flammable aerosol
H229 - Pressurised container: May burst if heated
H401 - Toxic to aquatic life
Precautionary statements (GHS ZA) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 - Do not spray on an open flame or other ignition source.
P251 - Do not pierce or burn, even after use.
P273 - Avoid release to the environment.
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

SunLab Moisturising Lotion Spray SPF50

Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

2.3. Other hazards

Adverse physicochemical, human health and environmental effects : Pressurised container: May burst if heated, Extremely flammable aerosol, Toxic to aquatic life

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to the United Nations GHS |
|---|---|-------------|--|
| butane, liquefied, under pressure | CAS-No.: 106-97-8 EC Index-No.: 601-004-00-0 | 10.0 - 20.0 | Flam. Gas 1, H220 Pyr. Gas Not classified Press. Gas (Liq.), H280 Acute Tox. Not classified (Inhalation:gas) |
| octocrylene | CAS-No.: 6197-30-4 | 5.0 - 10.0 | Flam. Liq. Not classified Acute Tox. Not classified (Oral) Acute Tox. 5 (Dermal), H313 STOT RE Not classified Aquatic Acute 1, H400 |
| Butylmethoxy dibenzoylmethane | CAS-No.: 70356-09-1 | 1.0 - 5.0 | Acute Tox. Not classified (Oral) STOT RE Not classified Aquatic Acute 1, H400 |
| (3,3,5-trimethylcyclohexyl) 2-hydroxybenzoate | CAS-No.: 118-56-9 | 1.0 - 5.0 | Flam. Liq. Not classified Acute Tox. Not classified (Oral) Acute Tox. Not classified (Dermal) Aquatic Acute 3, H402 |
| Ethylhexyl salicylate | CAS-No.: 118-60-5 | 1.0 - 5.0 | Flam. Liq. Not classified Acute Tox. Not classified (Oral) Acute Tox. Not classified (Dermal) STOT RE Not classified Aquatic Acute 2, H401 |
| propane | CAS-No.: 74-98-6 EC Index-No.: 601-003-00-5 | 1.0 - 10.0 | Flam. Gas 1, H220 Pyr. Gas Not classified Press. Gas (Liq.), H280 Acute Tox. Not classified (Inhalation:gas) Aquatic Acute Not classified |

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Wash skin with plenty of water.
First-aid measures after eye contact : Rinse eyes with water as a precaution.
First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

No additional information available

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SunLab Moisturising Lotion Spray SPF50

Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Extremely flammable aerosol.
Explosion hazard : Pressurised container: May burst if heated.
Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.
Methods for cleaning up : Mechanically recover the product.
Other information : Dispose of materials or solid residues at an authorized site.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

SunLab Moisturising Lotion Spray SPF50

Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

| propane (74-98-6) | |
|--|-----------------------------|
| South Africa - Occupational Exposure Limits (Airborne Pollutants) | |
| Local name | Propane |
| OEL TWA | 1800 mg/m ³ |
| OEL TWA | 1000 ppm |
| Regulatory reference | Government Notice No. R 904 |
| butane, liquefied, under pressure (106-97-8) | |
| South Africa - Occupational Exposure Limits (Airborne Pollutants) | |
| Local name | n-Butane |
| OEL TWA | 1430 mg/m ³ |
| OEL TWA | 600 ppm |
| OEL STEL | 1780 mg/m ³ |
| OEL STEL | 750 ppm |
| Regulatory reference | Government Notice No. R 904 |

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Hand protection : Protective gloves
Eye protection : Safety glasses
Skin and body protection : Wear suitable protective clothing
Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Lotion.
Colour : White.
Odour : characteristic.
Odour threshold : No data available
pH : 6.1 – 7.1
pH solution : No data available
Relative evaporation rate (butylacetate=1) : No data available
Relative evaporation rate (ether=1) : No data available
Melting point : Not applicable
Freezing point : No data available
Boiling point : No data available
Flash point : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available

SunLab Moisturising Lotion Spray SPF50

Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

| | |
|---|---|
| Flammability | : Extremely flammable aerosol. |
| Vapour pressure | : No data available |
| Vapour pressure at 50°C | : No data available |
| Relative vapour density at 20°C | : No data available |
| Relative density | : No data available |
| Relative density of saturated gas/air mixture | : No data available |
| Density | : No data available |
| Relative gas density | : No data available |
| Solubility | : No data available |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Partition coefficient n-octanol/water (Log Kow) | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : 1500 – 2500 mPa·s |
| Explosive properties | : Pressurised container: May burst if heated. |
| Oxidising properties | : No data available |
| Explosive limits | : No data available |
| Lower explosion limit | : No data available |
| Upper explosion limit | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Extremely flammable aerosol. Pressurised container: May burst if heated.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|-----------------------------|------------------|
| Acute toxicity (oral) | : Not classified |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

| | |
|---|---|
| propane (74-98-6) | |
| LC50 Inhalation - Rat [ppm] | > 800000 ppm (15 minutes, Rat, Male / female, Experimental value, Inhalation (gases)) |
| butane, liquefied, under pressure (106-97-8) | |
| LC50 Inhalation - Rat | 1442.738 – 1443 mg/l 15 MIN |
| LC50 Inhalation - Rat [ppm] | 800000 ppm 15 MIN |

SunLab Moisturising Lotion Spray SPF50

Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

| Butylmethoxy dibenzoylmethane (70356-09-1) | |
|---|--|
| LD50 oral rat | > 16000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
| (3,3,5-trimethylcyclohexyl) 2-hydroxybenzoate (118-56-9) | |
| LD50 oral rat | > 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
| LD50 dermal rabbit | > 5000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |
| Ethylhexyl salicylate (118-60-5) | |
| LD50 oral rat | > 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
| LD50 dermal rat | > 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |
| octocrilene (6197-30-4) | |
| LD50 oral rat | > 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
| LD50 dermal rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)) |
| Skin corrosion/irritation | : Not classified pH: 6.1 – 7.1 |
| Serious eye damage/irritation | : Not classified pH: 6.1 – 7.1 |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |
| STOT-repeated exposure | : Not classified |
| Butylmethoxy dibenzoylmethane (70356-09-1) | |
| LOAEL (oral, rat, 90 days) | 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| NOAEL (oral, rat, 90 days) | 450 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| NOAEL (dermal, rat/rabbit, 90 days) | 360 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study) |
| Ethylhexyl salicylate (118-60-5) | |
| NOAEL (oral, rat, 90 days) | 250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| octocrilene (6197-30-4) | |
| LOAEL (oral, rat, 90 days) | 340 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents), Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents) |
| NOAEL (oral, rat, 90 days) | 175 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents), Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents) |
| Aspiration hazard | : Not classified |
| SunLab Moisturising Lotion Spray SPF50 | |
| Vaporizer | Aerosol |

SunLab Moisturising Lotion Spray SPF50

Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

| | |
|---|-------|
| propane (74-98-6) | |
| Animal studies and expert judgment for classification | False |
| butane, liquefied, under pressure (106-97-8) | |
| Animal studies and expert judgment for classification | False |
| Butylmethoxy dibenzoylmethane (70356-09-1) | |
| Animal studies and expert judgment for classification | False |
| (3,3,5-trimethylcyclohexyl) 2-hydroxybenzoate (118-56-9) | |
| Animal studies and expert judgment for classification | False |
| Ethylhexyl salicylate (118-60-5) | |
| Animal studies and expert judgment for classification | False |
| octocrilene (6197-30-4) | |
| Animal studies and expert judgment for classification | False |

SECTION 12: Ecological information

12.1. Toxicity

| | |
|---|--------------------------|
| Ecology - general | : Toxic to aquatic life. |
| Hazardous to the aquatic environment, short-term (acute) | : Toxic to aquatic life. |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified |

| | |
|---|---|
| propane (74-98-6) | |
| LC50 - Fish [1] | 50 mg/l (96 h, Pisces, Fresh water, QSAR, Estimated value) |
| Partition coefficient n-octanol/water (Log Pow) | 1.1 – 2.8 (Experimental value, 20 °C) |
| butane, liquefied, under pressure (106-97-8) | |
| LC50 - Fish [1] | 1000 mg/l (96 h, Pimephales promelas, QSAR) |
| Partition coefficient n-octanol/water (Log Pow) | 2.8 (Experimental value, 20 °C) |
| Butylmethoxy dibenzoylmethane (70356-09-1) | |
| LC50 - Fish [1] | > 0.03 mg/l Test organisms (species): Cyprinus carpio |
| EC50 - Crustacea [1] | > 0.03 mg/l Test organisms (species): Daphnia magna |
| (3,3,5-trimethylcyclohexyl) 2-hydroxybenzoate (118-56-9) | |
| LC50 - Fish [1] | > 82 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) |
| EC50 - Crustacea [1] | > 100 mg/l Test organisms (species): Daphnia magna |
| Ethylhexyl salicylate (118-60-5) | |
| LC50 - Fish [1] | > 82 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) |
| EC50 - Crustacea [1] | 10 mg/l Test organisms (species): Daphnia magna |
| octocrilene (6197-30-4) | |
| EC50 - Crustacea [1] | > 0.023 mg/l Test organisms (species): Daphnia magna |
| EC50 72h - Algae [1] | > 220 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |

SunLab Moisturising Lotion Spray SPF50

Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

12.2. Persistence and degradability

| SunLab Moisturising Lotion Spray SPF50 | |
|--|-------------------------------------|
| Persistence and degradability | No additional information available |
| propane (74-98-6) | |
| Persistence and degradability | Readily biodegradable in water. |
| butane, liquefied, under pressure (106-97-8) | |
| Persistence and degradability | Readily biodegradable in water. |

12.3. Bioaccumulative potential

| SunLab Moisturising Lotion Spray SPF50 | |
|---|--|
| Bioaccumulative potential | No additional information available |
| propane (74-98-6) | |
| Partition coefficient n-octanol/water (Log Pow) | 1.1 – 2.8 (Experimental value, 20 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |
| butane, liquefied, under pressure (106-97-8) | |
| Partition coefficient n-octanol/water (Log Pow) | 2.8 (Experimental value, 20 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |

12.4. Mobility in soil

| SunLab Moisturising Lotion Spray SPF50 | |
|---|---------------------------------------|
| Mobility in soil | No additional information available |
| propane (74-98-6) | |
| Surface tension | No data available in the literature |
| Partition coefficient n-octanol/water (Log Pow) | 1.1 – 2.8 (Experimental value, 20 °C) |
| Ecology - soil | Not applicable (gas). |
| butane, liquefied, under pressure (106-97-8) | |
| Surface tension | No data available in the literature |
| Partition coefficient n-octanol/water (Log Pow) | 2.8 (Experimental value, 20 °C) |
| Ecology - soil | Not applicable (gas). |

12.5. Other adverse effects

Ozone : Not classified
Other adverse effects : No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.




SECTION 14: Transport information

In accordance with SANS / IMDG / IATA

SunLab Moisturising Lotion Spray SPF50

Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

| SANS | IMDG | IATA |
|---|---|---|
| 14.1. UN number | | |
| 1950 | 1950 | 1950 |
| 14.2. Proper Shipping Name | | |
| AEROSOLS | AEROSOLS | Aerosols, flammable |
| 14.3. Transport hazard class(es) | | |
| 2.1 | 2.1 | 2.1 |
|  |  |  |
| 14.4. Packing group | | |
| Not applicable | Not applicable | Not applicable |
| 14.5. Environmental hazards | | |
| Dangerous for the environment : No | Dangerous for the environment : No Marine pollutant : No | Dangerous for the environment : No |
| No supplementary information available | | |

14.6. Special precautions for user

SANS

Special provisions (SANS) : 63, 190
 Limited quantities (SANS) : See SP277
 Limited quantities (SANS) : See SP277
 Packagings, large packagings and IBCs Packing instructions (SANS) : P003
 Packagings, large packagings and IBCs Special packing instructions (SANS) : PP17, PP87

IMDG

Special provisions (IMDG) : 63, 190, 277, 327, 344, 381, 959
 Packing instructions (IMDG) : P207, LP200
 Special packing provisions (IMDG) : PP87, L2
 EmS-No. (Fire) : F-D - FIRE SCHEDULE Delta - FLAMMABLE GASES
 EmS-No. (Spillage) : S-U - SPILLAGE SCHEDULE Uniform - GASES (FLAMMABLE, TOXIC OR CORROSIVE)
 Stowage category (IMDG) : None
 Stowage and handling (IMDG) : SW1, SW22
 Segregation (IMDG) : SG69

IATA

PCA Excepted quantities (IATA) : E0
 PCA Limited quantities (IATA) : Y203
 PCA limited quantity max net quantity (IATA) : 30kgG
 PCA packing instructions (IATA) : 203
 PCA max net quantity (IATA) : 75kg
 CAO packing instructions (IATA) : 203
 CAO max net quantity (IATA) : 150kg
 Special provisions (IATA) : A145, A167, A802
 ERG code (IATA) : 10L

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SunLab Moisturising Lotion Spray SPF50

Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

SECTION 15: Regulatory information

15.1. Safety, health, and environmental national regulations specific for the product

No additional information available

SECTION 16: Other information

Issue date : 28/04/2023

Revision date : 26/11/2024

| Full text of H-statements | |
|---------------------------|---|
| H220 | Extremely flammable gas |
| H280 | Contains gas under pressure; may explode if heated |
| H303 | May be harmful if swallowed |
| H304 | May be fatal if swallowed and enters airways |
| H313 | May be harmful in contact with skin |
| H314 | Causes severe skin burns and eye damage |
| H315 | Causes skin irritation |
| H318 | Causes serious eye damage |
| H319 | Causes serious eye irritation |
| H335 | May cause respiratory irritation |
| H373 | May cause damage to organs through prolonged or repeated exposure |
| H400 | Very toxic to aquatic life |
| H401 | Toxic to aquatic life |
| H402 | Harmful to aquatic life |
| H412 | Harmful to aquatic life with long lasting effects |

Safety Data Sheet (SDS), South Africa

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.