SAFETY DATA SHEETS

Version: 1.0
Creation Date: November 12, 2024
Revision Date: September 05, 2025

SECTION 1: Identification

1.1 GHS Product identifier

Product name GREEN SOLKETAL

1.2 Other means of identification

Product number -
Other names 2-(hydroxymethyl)-2-methylpropane-1,3-diol; 1,2-O-Isopropylideneglycerol

1.3 Recommended use of the chemical and restrictions on use

Identified uses Chemical industry
Uses advised against no data available

1.4 Supplier's details

Company NUOL Green Chemistry
Address Heron Road, 17936 – Little Falls/MS - USA
Telephone -----

1.5 Emergency phone number

Emergency phone number -------
Service hours Monday to Friday, 9am-5pm (Standard time zone: CST / UTC-6).

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

Eye irritation, (Category 2) - H319: Causes serious eye irritation

2.2 GHS label elements, including precautionary statements

Pictogram(s)

Signal word Warning
Hazard statement(s) H319 Causes serious eye irritation
Precautionary statement(s)
Prevention Wash hands and face thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/
Response If on skin wash with plenty of water. If skin irritation occurs: Get medical help.
Take off contaminated clothing and wash it before reusing.
If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage None
Disposal None

2.3 Other hazards which do not result in classification

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

Chemical name	Common names and synonyms	CAS number	EC number	Concentration	Chemical Formula
GREEN SOLKETAL	2-(hydroxymethyl)-2-methylpropane-1,3-diol	100-79-8	202-888-7	<=100%	C22H38O7

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

If inhaled

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical. Consult a doctor.

Following skin contact

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

Following eye contact

Rinse with pure water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Following ingestion

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Immediately make victim drink water (two glasses at most). Call a doctor or Poison Control Center immediately.

4.2 Most important symptoms/effects, acute and delayed
no data available

4.3 Indication of immediate medical attention and special treatment needed, if necessary
no data available

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media
Water Foam Carbon dioxide (CO2) Dry powder.

5.2 Specific hazards arising from the chemical
Carbon oxides. Combustible. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Special protective actions for fire-fighters
Wear self-contained breathing apparatus for firefighting if necessary. Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved people should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so. When extinguishing fire, be sure to wear personal protective equipment. Prevent fire extinguishing water from contaminating surface water or the ground water system.

Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

6.2 Environmental precautions
Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Collect and arrange disposal. Cover drains. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Soak up with inert absorbent material and dispose of as hazardous waste. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations. Clean up affected area.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Handling in a well-ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam. Keep away from open flames, hot surfaces and sources of ignition.

7.2 Conditions for safe storage, including any incompatibility
Do not contaminate water, food, or feed by storage. Keep container tightly sealed when not in use. Store only in original container in a dry place inaccessible to children and pets.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure limit values

no data available

Biological limit values

no data available

8.2 Appropriate engineering controls
Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area. Also install safety shower and eye bath. Wash hands before breaks and at the end of workday.

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

Eye/face protection

Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Thermal hazards

Do not let product enter drains

SECTION 9: Physical and chemical properties

Physical state (20oC)	Liquid
Form	Liquid
Colour	Colorless
Odour	slight
Melting point/freezing point	Freezing point/ range: < -50 °C at 1.013 hPa
Boiling point or initial boiling point and boiling range	189 - 191 °C at 1.013 hPa
Flammability	no data available
Lower and upper explosion limit/flammability limit	no data available
Flash point	90 °C - closed cup
Auto-ignition temperature	390 °C at 1.005,6 - 1.007,4 hPa
Decomposition temperature	no data available
pH	no data available
Kinematic viscosity	Viscosity, kinematic: No data available Viscosity, dynamic: 12 mPa.s at 20 °C
Solubility	Water 172 g/l at 20 °C - OECD Test Guideline 105- soluble
Partition coefficient n-octanol/water	log Pow: -0,6 at 20 °C
Vapour pressure	0,32 - < 0,36 hPa at 20 °C
Density and/or relative density	1,064 at 20 °C
Relative vapour density	no data available
Particle characteristics	no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Avoid moisture. Strong heating

10.5 Incompatible materials

acids, Strong oxidizing agentes

10.6 Hazardous decomposition products

In the event of fire: see section 5.

SECTION 11: Toxicological information

Acute toxicity

- Oral: LD50 Oral - Rat - 7.000 mg/kg
- Inhalation: no data available
- Dermal: LD50 Dermal - Rat - male and female - > 2.000 mg/kg

Skin corrosion/irritation

No skin irritation (OECD Test Guideline 404) – 4h

Serious eye damage/irritation

Eye irritation (OECD Test Guideline 405) – 24h

Respiratory or skin sensitization

Not a skin sensitizer (OECD Test Guideline 406)

Germ cell mutagenicity

Negative (OECD Test Guideline 471 and 474)

Carcinogenicity

no data available

Reproductive toxicity

no data available

STOT-single exposure

no data available

STOT-repeated exposure

no data available

Aspiration hazard

no data available

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish flow-through test LC50 - Pimephales promelas (fathead minnow) - 16,7 g/l - 96 h
Toxicity to daphnia and other aquatic invertebrates static test EC50 - Daphnia magna (Water flea) - > 96 mg/l - 48 h (OECD Test Guideline 202)
Toxicity to algae static test EC50 - Pseudokirchneriella subcapitata - > 92 mg/l - 72 h (OECD Test Guideline 201)
Toxicity to bacteria Respiration inhibition EC50 - activated sludge - > 1.000 mg/l - 3 h (OECD Test Guideline 209)

12.2 Persistence and degradability

Biodegradability: aerobic - Exposure time 28 d Result: 25 % - Not readily biodegradable. (OECD Test Guideline 302B)

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Other adverse effects

no data available

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 13: Disposal considerations

13.1 Disposal methods

Product

Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Contaminated packaging

no data available

SECTION 14: Transport information

14.1 UN Number

ADR/RID: no data available IMDG: no data available IATA: no data available

14.2 UN Proper Shipping Name

ADR/RID: not dangerous goods IMDG: not dangerous goods IATA: not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: no data available IMDG: no data available IATA: no data available

14.4 Packing group, if applicable

ADR/RID: no data available IMDG: no data available IATA: no data available

14.5 Environmental hazards

ADR/RID: No IMDG: No IATA: No

14.6 Special precautions for user

no data available

14.7 Transport in bulk according to IMO instruments

no data available

Not classified as dangerous in the meaning of transport regulations.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

Chemical name	Common names and synonyms	CAS number	EC number	Chemical Formula
GREEN SOLKETAL	2-(hydroxymethyl)-2-methylpropane-1,3-diol	100-79-8	202-888-7	C22H38O7
United States Toxic Substances Control Act (TSCA) Inventory			Listed	

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
For this product a chemical safety assessment was not carried out.

SECTION 16: Other information

Information on revision

Creation Date	November 12, 2024
Revision Date	September 05, 2025

Full text of H-Statements

H319 Causes serious eye irritation.

Abbreviations and acronyms

- CAS: Chemical Abstracts Service
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- RID: Regulation concerning the International Carriage of Dangerous Goods by Rail
- IMDG: International Maritime Dangerous Goods
- IATA: International Air Transportation Association
- TWA: Time Weighted Average
- STEL: Short term exposure limit
- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- EC50: Effective Concentration 50%

References

- IPCS - The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home
- HSDB - Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm
- IARC - International Agency for Research on Cancer, website: http://www.iarc.fr/
- eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website: http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en
- CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple
- ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp
- ERG - Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg
- Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp
- ECHA - European Chemicals Agency, website: https://echa.europa.eu/