



Material Safety Data Sheet(MSDS)

SMA'RT FermentDiol

SECTION 1 : PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Name : SMA'RT FermentDiol
Use of the Substance/Preparation : Cosmetic additive

1.2 Manufacturer/Supplier/Distributor Information

Manufacturer : SMA Collaboratives LLC
Address : 2301 NW 30th Place
Pompano Beach, FL 33069

Supplier/Distributor : SMA Collaboratives LLC
Address : 2301 NW 30th Place
Pompano Beach, FL 33069

24 Hour Emergency Response Information
CHEMTREC;
1-800-424-9300 WITHIN THE U.S.A.

SECTION 2: HAZARDS IDENTIFICATION

Classification in accordance to Directive No. 1272/2008/EC (CLP)

2.1 Hazard . Risk Classification : This product is not classified.

2.2 Label elements including precautionary statements

Symbol : None
Signal Word : None
Hazard Risk Statement : None
Precautionary Statement : None

2.3 Other Hazard . Risk which are not included in the classification criteria

Physical hazards : None
Ecological hazards : None

SECTION 3: INGREDIENT

3.1 Substances

Product Name : SMA'RT FermentDiol

Composition : Butylene Glycol

INCI name	CAS No.	EC No	Composition
Butylene Glycol	107-88-0	203-529-7	100

3.2 Mixtures

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

no data available

SECTION 5: FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information

no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

Evacuate personnel to safe areas.

For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Normal measures for preventive fire protection.

DNEL & PNEC

1,3-Butylene glycol (Butane-1,3-diol), CAS: 107-88-0

General population

DN(M)EL – long-term exposure – systemic effects – Oral 25-mg/kg bw/day

Environment

PNEC aqua - freshwater 0.85 mg/l

PNEC aqua – marine water 0.085 mg/l

PNEC aqua – intermittent releases 2 mg/l

PNEC STP 10 mg/l

PNEC sediment – freshwater 1.78 mg/kg

PNEC sediment – marine water 0.178 mg/l

PNEC soil 0.13 mg/kg

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Respiratory Protection : At a minimum, workers should wear a NIOSH-approved full-face air-purifying respirator.
- 8.2 Eye Protection : Chemical Safety goggles.
- 8.3 General Hygiene Measures : wash thoroughly after handling
- 8.4 Ventilation : Mechanical exhaust required.
- 8.5 Skin Protection : Chemical resistant gloves.
-
-

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Appearance :
 physical state : Liquid
 color : Colorless
- 9.2 Odour: No data available
- 9.3 Odour threshold: No data available
- 9.4 pH: No data available
- 9.5 Melting point/freezing point: -57°C
- 9.6 Initial boiling point and boiling range: 209°C @ 1013 hPa
- 9.7 Flash point : 115°C
- 9.8 Evaporation rate: No data available
- 9.9 Flammability (solid, gas): No data available
- 9.10 Upper/lower flammability or explosive limits: No data available
- 9.11 Vapor pressure: No data available
- 9.12 Solubility: No data available
- 9.13 Vapor density: No data available
- 9.14 Relative density: No data available
- 9.15 Partition coefficient: n-octanol/water: No data available
- 9.16 Auto-ignition temperature: 410°C
- 9.17 Decomposition temperature: No data available
- 9.18 Viscosity: 131.8 mPa*s @ 20°C
- 9.19 Particle Size : No data available
- 9.20 Molecular mass: No data available
-
-

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

no data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

no data available

10.5 Incompatible materials

Strong oxidizing agents Strong oxidizing agents, Strong bases

10.6 Hazardous decomposition products

Other decomposition products - no data available

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Principle Routes of Exposure Inhalation, Eye contact, Skin contact, Ingestion

1,3-Butylene glycol (Butane-1,3-diol) (107-88-0)

Routes of Exposure	Endpoint	Values	Species	Method
Oral	LD50	22800 mg/kg	rat, male	
Inhalative	LC0	290 mg/m ³	rat, male	OECD 403

Irritation and corrosion

(Butane-1,3-diol) (107-88-0)

Target Organ Effects	Species	Result	Method
Skin	rabbit	No skin irritation	
Eye	rabbit	Mild eye irritation	

Sensitization

(Butane-1,3-diol)(107-88-0)

Target Organ Effects	Species	Evaluation	Method
Skin	Human	experience not sensitizing	

Subacute, subchronic and prolonged toxicity

(Butane-1,3-diol) (107-88-0)

Type	Dose	Species	Method	
Chronic toxicity	NOAEL : 5000 Mg/kg/d	rat, male/female	Oral	two-year

Carcinogenicity, Mutagenicity, Reproductive toxicity
(Butane-1,3-diol) (107-88-0)

Type	Dose	Species	Evaluation	Method	
Mutagenicity		Rat, Male/female	Negative		In vivo
Reproductive Toxicity	LOAEL 12000 mg/kg/d	Rat		Oral	
Reproductive Toxicity	LOAEL 5000 mg/kg/d	Rat		Oral	
Developmental Toxicity	LOAEL 2500 mg/kg/d	Rat		Oral	Maternal Toxicity
Developmental Toxicity	LOAEL 12000 mg/kg/d	Rat		Oral	Teratogenicity
Developmental Toxicity	LOAEL 5000 mg/kg/d	Rat		Oral	Fetal toxicity
Developmental Toxicity	LOAEL 2500 mg/kg/d	Rat		Oral	Fetal toxicity
Carcinogenicity	LOAEL 5000 mg/kg/d	Rat		Oral	

Main symptoms

Cough.

Note

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: ECOLOGICAL INFORMATION

Acute aquatic toxicity

1,3-Butylene glycol (Butane-1,3-diol) (107-88-0)

Species	Exposure Time	Dose	Method
Daphnia magna(Water flea)	48H	EC50:>1000 mg/l	OECD202
Desmodesmus subspicatus	72H	EC50:>1070 mg/l	OECD201
		(growth period)	
Oryzias latipes(Medaka)	96H	LC50:>100 mg/l	OECD203
Activated sludge(bacteriae)	3H	EC20:>100 mg/l	OECD209

Long term toxicity

Type	Species	Dose	Method
Reproductive toxicity	Daphnia magna(Water flea)	EC50:>85 mg/l/21d	OECD202

Biodegradation

81 % (29d), activated sludge (domestic) aerobic, non-adapted, OEDC 301B.

PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic(PBT), nor very persistent nor very bioaccumulating (vPvB)

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

SECTION 14:TRANSPORT INFORMATION

Land transport

ADR Not classified as a dangerous good under transport regulations

RID Not classified as a dangerous good under transport regulations

Inland waterway transport

AND Not classified as a dangerous good under transport regulations

Sea transport

IMDG Not classified as a dangerous good under transport regulations

Air transport

IATA/ICAO Not classified as a dangerous good under transport regulations

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
no data available

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

16. Other information

16.1 Information source and references: SMA Collaboratives LLC

16.2 Issuing date: May 17th, 2014

16.3 Revision number and date: Ver 1.7 September 1, 2022

16.4 others