

Product ID: 5036011

800628

* * * Section 1 - Chemical Product and Company Identification * * *

Product Use: Cosmetic ingredient

Manufacturer Information DSM Nutritional Products, Inc.

45 Waterview Blvd.

Parsippany, NJ 07054-1298

Phone: 908-475-7373

Emergency # 1-800-424-9300 (24 HR CHEMTREC)

* * * Section 2 - Hazards Identification * * *

Emergency Overview

Product is a colorless liquid. Liquid is not irritative.

Potential Health Effects: Eyes
This product is non-irritating
Potential Health Effects: Skin

This product is non-irritating and non-sensitizing

Potential Health Effects: Ingestion

No significant adverse effects are expected upon ingestion of small amounts of this product. Ingestion of very

large amounts may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Potential Health Effects: Inhalation

Inhalation of high concentrations of mists or vapors may cause irritation to the respiratory tract.

HMIS Ratings: Health: 1 Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

* * * Section 3 - Composition / Information on Ingredients * * *

CAS#	Component	Percent
56-81-5	Glycerin	60-100

Component Information/Information on Non-Hazardous Components

This product is considered not hazardous under 29 CFR 1910.1200 (Hazard Communication).

This product is not regulated according to criteria of the Canadian Controlled Products Regulations.

* * * Section 4 - First Aid Measures * * *

First Aid: Eyes

Flush with water for 15 minutes while holding the eyelids wide open. Seek medical attention if irritation develops.

First Aid: Skin

Immediately take off all contaminated clothing. For skin contact, wash immediately with soap and water. Do not use solvents to remove product residues from skin. If irritation persists, get medical attention.

First Aid: Ingestion

Product is not considered hazardous in small amounts. Call a physician if symptoms develop or persist. If ingestion of a large amount does occur, seek medical attention.

First Aid: Inhalation

Move person to non-contaminated air. Call a physician if symptoms develop or persist.

First Aid: Notes to Physician

Provide general supportive measures and treat symptomatically.

* * * Section 5 - Fire Fighting Measures * * *

General Fire Hazards

See Section 9 for Flammability Properties.



Product ID: 5036011

800628

Product does not readily ignite.

Hazardous Combustion Products

Hazardous combustion products may include carbon monoxide, carbon dioxide and hydrocarbon fragments.

Extinguishing Media

Water, carbon dioxide, foam, dry powder.

Fire Fighting Equipment/Instructions

Fire fighters should wear full-face, self contained breathing apparatus and impervious protective clothing. Fire fighters should avoid inhaling any combustion products.

NFPA Ratings: Health: 1 Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

* * * Section 6 - Accidental Release Measures * * *

Containment Procedures

Stop the flow of material, if this is without risk.

Clean-Up Procedures

Absorb spill with inert material. Shovel material into appropriate container for disposal. Thoroughly wash the area with water after a spill or leak clean-up.

Evacuation Procedures

None necessary.

Special Procedures

Regulations vary. Consult local authorities before disposal.

* * * Section 7 - Handling and Storage * * *

Handling Procedures

Product should be processed in closed systems, if possible in an inert atmosphere. Avoid eye contact. Avoid breathing vapors or mists of this product. Wash thoroughly after handling.

Storage Procedures

Keep the container tightly closed and in a cool, well-ventilated place.

* * * Section 8 - Exposure Controls / Personal Protection * * *

A: Component Exposure Limits

Consult local authorities for acceptable exposure limits.

Glycerin (56-81-5)

ACGIH: 10 mg/m3 TWA (mist)

OSHA: 10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)

Alberta: 10 mg/m3 TWA

British Columbia: 10 mg/m3 TWA; 3 mg/m3 TWA (respirable)

Manitoba: 10 mg/m3 TWA (mist)
New Brunswick: 10 mg/m3 TWA
NW Territories: 10 mg/m3 TWA (mist)

20 mg/m3 STEL (mist)

Nova Scotia: 10 mg/m3 TWA (mist) Nunavut: 10 mg/m3 TWA (mist) 20 mg/m3 STEL (mist)

Ontario: 10 mg/m3 TWAEV
Quebec: 10 mg/m3 TWAEV (mist)
Saskatchewan: 10 mg/m3 TWA (mist)

20 mg/m3 STEL (mist)

Yukon: 30 mppcf TWA; 10 mg/m3 TWA

Engineering Controls

Ventilation should effectively remove and prevent buildup of any vapor or mist generated from the handling of this product.



SYN®-AKE **Material Safety Data Sheet:**

Product ID: 5036011

800628

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Wear safety glasses with side shields.

Personal Protective Equipment: Skin

Use impervious gloves.

Personal Protective Equipment: Respiratory

If ventilation is not sufficient to effectively prevent buildup of mists or vapors, appropriate NIOSH respiratory

protection must be provided.

Personal Protective Equipment: General

Eye wash fountain and emergency showers are recommended.

Section 9 - Physical & Chemical Properties

Appearance: Colorless liquid Odor: Slight **Physical State:** liquid pH: 4.5-5.5 Vapor Pressure: Not Available Vapor Density: Not Available **Boiling Point:** About 115°C (239°F) Melting Point: Not Available

Solubility (H2O): Specific Gravity: Soluble 1.21 Flash Point: >220°C (428°F) Flash Point Method: Not Available

OSHA Flammability IIIB

Classification:

Section 10 - Chemical Stability & Reactivity Information

Chemical Stability

Stable under normal conditions.

Chemical Stability: Conditions to Avoid

Avoid extremes in temperature.

Incompatibility

None identified.

Hazardous Decomposition

Hazardous combustion products may include carbon monoxide, carbon dioxide and hydrocarbon fragments.

Possibility of Hazardous Reactions

Will not occur.

Section 11 - Toxicological Information

Acute Dose Effects

A: General Product Information

SYN®-AKE is expected to be safe for cosmetic use.

B: Component Analysis - LD50/LC50

Glycerin (56-81-5)

Inhalation LC50 Rat: >570 mg/m3/1H; Oral LD50 Rat:12600 mg/kg; Dermal LD50 Rat:>21900 mg/kg

Carcinogenicity

A: General Product Information

No information available for the product.

B: Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

Mutagenicity

Not mutagenic

Page 3 of 5 Issue Date: 01/27/09 Revision: 2.0000



Product ID: 5036011

800628

* * * Section 12 - Ecological Information * * *

Ecotoxicity

A: General Product Information

This product is not expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Glycerin (56-81-5)

Test & Species Conditions

96 Hr LC50 Oncorhynchus mykiss 51000-57000 mg/L 24 Hr EC50 Daphnia magna >500 mg/L

* * * Section 13 - Disposal Considerations * * *

US EPA Waste Number & Descriptions

A: General Product Information

Material, if discarded, is not expected to be a characteristic hazardous waste under RCRA.

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

* * * Section 14 - Transportation Information * * *

International Transportation Regulations

Not classified as hazardous material under DOT, IATA, IMDG, and TDG.

* * * Section 15 - Regulatory Information * * *

US Federal Regulations

A: General Product Information

Components of this product have been checked against the non-confidential TSCA inventory by CAS Registry Number. Components not identified on this non-confidential inventory are either exempt from listing (i.e. polymers, hydrates) or are listed on the confidential inventory as declared by the supplier.

B: Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

Acute Health: No Chronic Health: No Fire: No Pressure: No Reactive: No

State Regulations

A: General Product Information

Other state regulations may apply. Check individual state requirements.

B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Glycerin	56-81-5	No	Yes	Yes	Yes	Yes	Yes

Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

Additional Regulatory Information

A: General Product Information

No additional information available.



Product ID: 5036011

800628

B: Component Analysis - Inventory

Component	CAS#	TSCA	CAN	EEC	
Glycerin	56-81-5	Yes	DSL	EINECS	

* * * Section 16 - Other Information * * *

Other Information

The information herein is presented in good faith and believed to be accurate as of the effective date given. However, no warranty, expressed or implied, is given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists. CERCLA = Comprehensive Environmental Response, Compensation and Liability Act. CFR = Code of Federal Regulations. DSL = Canadian Domestic Substance List. DOT= Department of Transportation. EINECS = European Inventory of New and Existing Chemical Substances. EPA = Environmental Protection Agency. HEPA = High Efficiency Particulate Air. HMIS = Hazardous Material Identification System. IARC = International Agency for Research on Cancer. IATA= International Air Transport Association. IMDG= International Maritime Dangerous Good. NFPA = National Fire Protection Association. NIOSH = National Institute of Occupational Safety and Health. NJTSR = New Jersey Trade Secret Registry. NTP = National Toxicology Program. OSHA = Occupational Safety and Health Administration. NA = Not available or Not Applicable. SARA = Superfund Amendments and Reauthorization Act. TLV = Threshold Limit Value. TSCA = Toxic Substance Control Act. WHMIS = Workplace Hazardous Materials Information System.

End of Sheet 5036011