# MATERIAL SAFETY DATA SHEET

# 1. Product and Company Identification

Material name

Glutose (Graps and Lemon Flavors)

Version #

Issue date

12-18-2012

Revision date

Supersedes date

CAS#

Mixture

Product code

5006915, 5006930, 5006945, 5007015, 5007030

Product use

Oral glucose gel.

Manufacturer/Supplier

Perrigo Company

3940 Quebec Ave North

Minneapolis, MN 55427 US

Telephone:

763-546-4676

**Emergency** 

Emergency Telephone: (888) 464-2986

Global Incident Response No.: (760) 476-3962

Giobal Response Access Code: 333304

#### 2. Hazards Identification

Physical state

Liquid.

**Appearance** 

Clear colorless viscous get with small bubbles throughout.

**Emergency overview** 

May cause eye irritation. May cause akin irritation. May be harmful if swallowed in large quantities.

For topical use only.

Consumers: Refer to the package for consumer-specific information about the directional use and

effects of this product.

Only information about the ingredients that are expected to contribute to the potential health

effects of the product are included.

Prescription only medicine.

**OSHA** regulatory status

Potential health effects

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

Routes of exposure

ingestion. Eye contact. Skin contact.

Eyes

May cause eye imitation.

Skin

May cause skin irritation.

inhalation

No inhalation hazard under normal conditions.

Ingestion

May be harmful if swallowed in large quantities. May cause abdominal pain, swelling and mild

diarrhea.

Target organs

Eves.

Chronic effects

Long-term usage may cause possible hypersensitization in susceptible individuals.

Potential environmental effects

The product is not classified as environmentally hazardous. However, this does not exclude the posaibility that large or frequent spllis can have a harmful or damaging effect on the environment.

### 3. Composition / Information on Ingredients

Components	CAS#	Percent
Dextrose Anhydrous	50-99-7	30-60
Glycerin	56-81-5	3-7
Lemon flavor	NA	1-5
Cellulose gum	NA	0.5-1.5

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**CPH MSDS NA** 

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#### 4. First Aid Measures

First aid procedures

Eye contact Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact

lenses. Get medical attention if Irritation develops or persists.

Skin contact Should skin imitation, allergic reaction, or rash occur, remove contaminated clothing if required,

then physically remove as much of the product as possible. Wash affected area with soap and water, then thoroughly flush the area with water. If irritation persists, seek medical advice.

Inhalation If symptomatic, move to fresh air. Get medical attention, if needed.

ingestion If symptomatic, seek medical advice.

# 5. Fire Fighting Measures

Flammable properties

None known.

Extinguishing media

Sultable extinguishing

medla

Extinguish with water spray, carbon dioxide, dry chemical or material appropriate for the

surrounding fire.

Unsultable extinguishing

albem

Not applicable.

Protection of firefighters

Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective clothing.

Fire fighting

equipment/instructions

Not available.

Hazardous combustion

products

Carbon oxides. May produce toxic fumes if heated to decomposition.

#### Accidental Release Measures

Personal precautions

Wear appropriate personal protective equipment (See Section 8).

Methods for cleaning up

Recover by pumping or with suitable absorbent. Flush area clean with lots of water. Be aware of

potential for surfaces to become slippery.

#### 7. Handling and Storage

Handling

Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.

Storage

Keep only in the original container. Store at controlled room temperature at 15-30 °C (59-86°F).

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### 8. Exposure Controls / Personal Protection

#### Occupational exposure limits

Components

#### **US. ACGIH Threshold Limit Values**

Components	Тура	Value	Form	
Glycerin (CAS 56-81-5)	TWA	10 mg/m3	Mist.	
US OSHA Table 7-11 Imite for A	ir Conteminante (20 CFR 1910 1	000)		

#### CO. CONA TEDIC 2-1 Elitiliza for All Collegialitatica (20 Of A 10 10.1000)

Camponents	Туре	Value	Form
Glycerin (CAS 58-81-5)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.

#### Canada, Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Aditibananta	. A ba	ASIGO		
Glycerin (CAS 56-81-5)	TWA	10 mg/m3	Miet.	

# Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/87, as amended)

Components	Туре	Value	Form
Glycerin (CAS 56-81-5)	TWA	3 mg/m3	Respirable mist.
		10 mg/m3	Mist.

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# Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Туре	Value	Form	
Glycerin (CAS 56-81-5)	TWA	10 mg/m3	Mist.	
Canada. Quebec OELs. (Ministry	of Labor - Regulation Respect	ing the Quality of the Work E	nvironment)	
Componenta	Туре	Value	Form	
Glycerin (CAS 56-81-5)	TWA	10 mg/m3	Mist.	
Mexico. Occupational Exposure	Limit Values			
Components	Туре	Value	Form	
Glycerin (CAS 56-81-5)	TWA	10 mg/m3	Mist.	

#### Engineering controls

The health hazard risks of handling this material are dependent on factors, such as physical form and quantity. Site-specific risk assessments should be conducted to determine the appropriate exposure control measures. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

#### Personal protective equipment

Eye / face protection

None required for consumer use. In laboratory, medical or industrial settings, safety glasses with side shields are recommended. The use of goggles or full face protection may be required depending on the industrial exposure setting. Contact a health and safety professional for specific information.

Skin protection

None required for consumer use. In laboratory, medical or industrial settings, gloves and lab coats are recommended. The use of additional personal protective equipment such as shoe coverings, gauntlets, hood or head coverings may be necessary. Contact a health and safety professional for specific information.

Respiratory protection

None required for consumer use. Respirators may be required for certain laboratory and manufacturing tasks if engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (where exposure limits have not been established). Workplace risk assessments should be completed before specifying and implementing respirator usage. All respirators must conform to specifications for efficiency and performance. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 29 CFR 1910.134. Respirator type: Air-purifying reapirator with an appropriate, air-purifying filter, cartridge or canister. Contact a health and safety professional or manufacturer for specific information.

General hygiene considerations

Wash hands after handling. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

# 9. Physical & Chemical Properties

Appearance

Clear colorless viscous gel with small bubbles throughout.

Physical state

Liquid. Liquid Gel

Form Color

Colorless. Slight lemon.

Odor Odor threshold

Not available. Not available.

рH Vapor pressure Vapor density

Not available. Not available.

**Bolling point** Melting point/Freezing point Not available. Not available.

Solubility (water) Specific gravity

Soluble in water. Not available.

Flash point

Not available.

Flammability fimits in air, upper, % by volume

Not available.

Flammability limits in air,

lower, % by volume

Not available.

Auto-ignition temperature

Not available.

# 10. Chemical Stability & Reactivity Information

Chemical stability

Stable.

Conditions to avoid

Elevated temperatures.

incompatible materials

None known.

Hazardous decomposition

None known,

products

Possibility of hazardous

Hazardous polymerization does not occur.

reactions

# 11. Toxicological information

Sensitization

Not a skin or respiratory sensitizer.

Local effects

May cause eye irritation.

Chronic effects

Long-term usage may cause possible hypersensitization in susceptible individuals. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Carcinogenicity Mutagenicity

This product is not expected to cause mutagenic or genotoxic effects.

Reproductive effects

This product is not expected to cause reproductive or developmental effects.

# 12. Ecological Information

**Ecotoxicity** 

This product's components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability

No data available.

Bloaccumulation /

Accumulation

No data available.

Partition coefficient

Glycerin

-1.76

Mobility in environmental

media

No negative effects on the aquatic environment are known.

# 13. Disposal Considerations

Disposal Instructions

Dispose in accordance with applicable federal, state, and local regulations. No specific disposal

method required.

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Dispose of empty containers according to applicable federal, state/provincial and/or local

regulations.

# 14. Transport Information

Not regulated as a hazardous material by DOT.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

TDG

Not regulated as dangerous goods.

#### 16. Regulatory Information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

One or more components are not listed on TSCA.

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

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CPH MSDS NA

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# Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

#### CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No.

Section 302 extremely

hazardous aubstance (40 CFR 355, Appendix A)

Section 311/312 (40 CFR

Yes

370)

Drug Enforcement

Not controlled

Administration (DEA) (21 CFR

1308.11-15)

Canadian regulations

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS

contains all the information required by the CPR.

WHMIS status

Non-controlled

#### Inventory status

Country(s) or region	Inventory name	On Inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Nó
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances Liet (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	Na
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

"A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

State regulations

This product does not contain a chemical known to the State of California to cause cancer, birth

defects or other reproductive harm.

#### US - California Proposition 66 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed

US - New Jersey RTK - Substances: Listed substance

Glycerin (CAS 56-81-5)

Listed.

US. Massachusetts RTK - Substance Liet

Glycerin (CAS 56-81-5)

Listed.

US. New Jersey Worker and Community Right-to-Know Act

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

Glycerin (CAS 56-81-5)

Listed.

#### 16. Other Information

Further Information

HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings

Health: 1 Flammability: 1 Physical hazard: 0

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CPH MSDS NA

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NFPA ratings

Health: 1 Flammability: 1 Instability: 0

Disclaimer

This MSDS has been prepared for occupational exposure. Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequence of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).