

SAFETY DATA SHEET

According to OSHA Hazard Communication Standard Rule - 29 CFR 1910.1200 and the Canadian Hazardous Products Act



FREEDOM GREEN GUM

FGG20L

Version 3

SUBID:000001012371

Print Date 02-08-2014

Revision Date 02-07-2014

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Identification of the substance or mixture:

Product name : FREEDOM GREEN GUM
Additional identification : WGP800PET
MSDS Number : 000001012371

1.2 Use of the substance/mixture:

Use of the Substance/Preparation : Wash gum solution
Business group : GS

Transport Emergency

Non-transportation

Call CHEMTREC : +1 800 4249300
International : +1 703 5273887

Health Emergency Phone : +1 303 6235716
Agfa Information Phone : +1 201 4402500

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

GHS (Globally Harmonized System of Classification and Labelling of Chemicals)

This product is non hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

2.2 Label elements:

This product is not regulated according to the criteria of the United States, Occupational Safety and Health Administration (OSHA), Hazard Communication, 29 Code of Federal Regulation 1910.1200.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance related information:

CAS-No. : 7732-18-5

3.2 Hazard ingredients:

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The hazard and labelling information in this section is that of the individual ingredients. The corresponding information relative to this product as supplied is given in section 2.1.

Hazardous components

- Triethanolamine
CAS-No. : 102-71-6
- Concentration [%] : 1.0 - 5.0

Components with a community workplace exposure limit

- Triethanolamine

3.3 Remark:

Full text of each relevant H-phrase is listed in section 16.

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures:

- Eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- Skin contact : Wash immediately with plenty of water and soap. If symptoms persist, seek medical advice.
- Ingestion : Rinse mouth with plenty of water. Seek medical advice.
- Inhalation : Not relevant.

4.2 Most important symptoms and effects:

4.3 Indication of immediate medical attention and special treatment needed:

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media : All extinguishing media are suitable.

5.2 Special hazards arising from the substance or mixture:

Further information : Product is not combustible.

5.3 Advice for fire-fighters:

Special protective equipment for fire-fighters : Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes.

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SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Personal precautions : See section : Exposure controls / personal protection.
Additional advice : Wash away residues with plenty of water.

6.2 Environmental precautions:

Environmental precautions : For waste disposal see section 13.

6.3 Methods and material for containment and cleaning up:

Methods for cleaning up : Dike the spill if necessary. Soak up with absorbent material. Collect large spills into a properly labelled and sealable container. Prevent release into the drain, soil or surface water.

6.4 Reference to other sections:

For waste disposal see section 13.
For personal protection see section 8.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling:

Advice on protection against fire and explosion : Non-combustible (aqueous emulsion).

7.2 Conditions for safe storage:

Requirements for storage areas and containers : Keep container tightly closed. Protect from direct sunlight.
Advice on common storage : Store away from oxidizing agents.

7.3 Specific end use:

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:

8.1.1 Components with occupational exposure limits resp. biological occupational exposure limits requiring monitoring:

8.1.1.1 Occupational exposure limits:

Air limit values (US)

- Triethanolamine

CAS-No.: 102-71-6

Basis	Revision	Value	Type
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	Date	
ACGIH	01 2005	5 mg/m3 TWA

Air limit values (CA)

- Triethanolamine

CAS-No.: 102-71-6

Basis	Revision Date	Value	Type
CAD ON OEL	04 2005	3.1 mg/m3	TWAEV
CAD AB OEL	04 2004	5 mg/m3	TWA
CAD BC OEL	08 2004	5 mg/m3	TWA
OEL (QUE)	12 2008	5 mg/m3	TWA
CAD SK OEL	05 2009	5 mg/m3	8 HR ACL
CAD SK OEL	05 2009	10 mg/m3	15 MIN ACL
CAD MB OEL	03 2011	5 mg/m3	TWA

Biological limit values (US)

We are not aware of any national exposure limit.

Biological limit values (CA)

We are not aware of any national exposure limit.

8.1.1.2 Additional exposure limits under the conditions of use:

8.2 Exposure controls:

Occupational exposure controls:

➤ **Instruction measures to prevent exposure:**

➤ **Technical measures to prevent exposure:**

➤ **Personal measures to prevent exposure:**

Respiratory protection : Under normal conditions of use, respirator protection is not required. If respirators are used, institute a program in accordance with OSHA standard 29CFR1910.134 or Canada CSA Standard Z94.4-02.

Hand protection : Use chemical resistant gloves. In case of prolonged immersion or frequently repeated contact use gloves made of the materials: butyl rubber (thickness \geq 0.36 mm, breakthrough time > 480 min), nitrile rubber (thickness \geq 0.38 mm, breakthrough time > 480 min) or neoprene (thickness \geq 0.65 mm, breakthrough time > 240 min). For intermittent splash protection corresponding gloves with

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breakthrough times > 60 min can be used. Avoid gloves made of natural latex.

Eye protection : Safety glasses.

Personal protective equipment : Employees should wash their hands and face before eating, drinking, or using tobacco products. Educate and train employees in the safe use and handling of this product. Emergency showers and eye wash stations should be available.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Basic physical and chemical properties:

9.1.1 Appearance:

State of matter : Liquid

Form : Liquid.

Color : Yellow to brownish

Odor : Characteristic smell.

Odor threshold : No data available

9.1.2 Important health, safety and environmental information:

pH (25 °C) : 7.7

Melting point/range : < 0 °C

Boiling point/range : > 100 °C

Flash point : > 93.33 °C

Not combustible.

Vapour pressure (20 °C) : 23.00 hPa

Relative density (20 °C) : 1.017

Density : 1.023 g/cm³

Solubility/qualitative : Miscible with water at all ratios.

Water solubility : soluble

Evaporation rate : No data available

Flammability (solid, gas) : Product is not combustible.

9.2 Other information:

VOC content : 0.0 g/l
VOC content excluding water

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity:

10.2 Chemical stability:

Stability : The product is stable under normal conditions of storage and use.

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10.3 Possibility of hazardous reactions:

10.4 Conditions to avoid:

Conditions to avoid : Avoid contact with oxidizing agents. Remove all chemicals and rinse the processing tanks thoroughly with water before using any cleansing products.

10.5 Materials to avoid:

10.6 Hazardous decomposition products:

Hazardous decomposition products : None

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Toxicokinetics, metabolism and distribution:

- Triethanolamine
- No data available

Acute effects (toxicity tests):

> Acute Toxicity

- Triethanolamine

	Effect dose	Species	Value	Method
Acute oral toxicity	LD50	rat	> 5,000 mg/kg	Literature. Based on available data, the classification criteria are not met.
Acute oral toxicity	LD50	rat	6,400 mg/kg	OECD Test Guideline 401 Based on available data, the classification criteria are not met.
Acute dermal toxicity	LD50	rabbit	> 2,000 mg/kg	OECD Test Guideline 402 Based on available data, the classification criteria are not met.
Acute inhalation toxicity				No data available

> Specific target organ toxicity (STOT):

- Triethanolamine

Specific effects	Affected organs

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No data available

➤ **Irritant and corrosive effects:**

- Triethanolamine

	Exposure time	Species	Evaluation	Method
Primary irritation to the skin		rabbit	No skin irritation	OECD Test Guideline 404
Irritation to eyes		rabbit	No eye irritation	OECD Test Guideline 405
	No data available			

➤ **Irritation to the respiratory tract:**

- Triethanolamine

No data available

➤ **Sensitisation:**

- Triethanolamine

Species	Evaluation	Method
guinea pig	Did not cause sensitization on laboratory animals.	OECD Test Guideline 406

➤ **Aspiration hazard:**

- Triethanolamine

No data available

Sub-acute, sub-chronic and chronic toxicity

➤ **Repeated dose toxicity:**

- Triethanolamine

Based on available data, the classification criteria are not met.

➤ **Specific target organ toxicity (STOT):**

- Triethanolamine

No information available.

➤ **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**

- **Carcinogenicity**

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- Triethanolamine

Route of exposure	Species	Exposure time
Oral	mouse (female) Method: OECD Test Guideline 451 No carcinogenic effects observed at the doses tested.	

- **Mutagenicity**

- Triethanolamine

Based on available data, the classification criteria are not met.

- **Genetic toxicity in vitro**

- Triethanolamine

Type	Test system	Concentration	Result
Ames test	Based on available data, the classification criteria are not met. Method: OECD Test Guideline 476. Based on available data, the classification criteria are not met.		negative negative

- **Genetic toxicity in vivo**

- Triethanolamine

No data available

- **Teratogenicity**

- Triethanolamine

No data available

- **Toxicity to reproduction**

- Triethanolamine

Based on available data, the classification criteria are not met.

➤ **Summarised evaluation of the CMR properties:**

- Triethanolamine

Carcinogenicity : Based on available data, the classification criteria are not met.
Mutagenicity : Based on available data, the classification criteria are not met.
Teratogenicity : No data available
Toxicity to reproduction : Based on available data, the classification criteria are not met.

Experiences made in practice:

No toxicological effects known.

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SECTION 12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity:

- Triethanolamine

	Effect dose	Exposure time	Species	Value
Toxicity to fish	LC50	96 h	Pisces (fish)	450 to 7,900 mg/l
	Method: Literature. Based on available data, the classification criteria are not met.			
Toxicity to daphnia	EC50	48 h	Daphnia	> 2,500 mg/l
	Method: Literature. Based on available data, the classification criteria are not met.			
Toxicity to algae	EC50	72 h	Scenedesmus subspicatus (algae)	512 mg/l
	Based on available data, the classification criteria are not met.			
Toxicity to bacteria	EC5	16 h	Pseudomonas putida (bacteria)	> 10,000 mg/l
	Method: Literature.			

12.2 Persistence and degradability:

Physico-chemical removability

- Triethanolamine

No data available

Chemical Oxygen Demand (COD)

- Triethanolamine

No data available

Adsorbed organic bound halogens (AOX)

- Triethanolamine

Product does not contain any organic halogens.

Biodegradation

- Triethanolamine

According to the results of tests of biodegradability this product is considered as being readily biodegradable.

Biochemical Oxygen Demand (BOD)

- Triethanolamine

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No data available

12.3 Bioaccumulative potential:

Partition coefficient (n-octanol/water)

- Triethanolamine

Bioconcentration factor (BCF)

- Triethanolamine

Value	Species	Method
< 1		Literature.
Accumulation in aquatic organisms is unlikely.		

12.4 Mobility in soil:

- Triethanolamine
Soluble in water.

Henry's constant

- Triethanolamine

Value	Temperature	Method
		No information available.

Transport between environmental compartments

- Triethanolamine
Transport between environmental compartments can be expected.

12.5 Results of PBT and vPvB assessment:

- Triethanolamine

This product does not meet the criteria concerning PBT or vPvB substances as described in Annex XIII of the REACH regulation (1907/2006 EC)

12.6 Other adverse effects:

No information on ecology is available.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal methods

Waste disposal should be in accordance with existing federal, state and local environmental control laws. Discharge to sewer may require approval of permitting authority and may require pretreatment.

Empty containers.

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Recondition or dispose of empty container in accordance with governmental regulations.

US. RCRA Hazardous Waste Classification (40 CFR 261)

If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

SECTION 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

SECTION 15. REGULATORY INFORMATION

US. Toxic Substances Control Act (TSCA)

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substance Control Act (U.S, EPA TSCA) inventory.

US. OSHA Classification

This product is non hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

US. SARA 311/312 Hazard Categories

No SARA Hazards

US. California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects or any other harm.

State Right-to-Know Information

The following chemicals are specifically listed by individual states. Other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

US. Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000)

	<u>CAS-No.</u>	<u>Concentration [%]</u>
• Triethanolamine	102-71-6	>= 1.0 - <= 5.0

US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)

	<u>CAS-No.</u>	<u>Concentration [%]</u>
• Triethanolamine	102-71-6	>= 1.0 - <= 5.0

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US. Rhode Island Hazardous Substances Right-to-Know Act (R.I. Gen. Laws Section 28-21-1 et. seq.)

	<u>CAS-No.</u>	<u>Concentration</u> [%]
• Triethanolamine	102-71-6	>= 1.0 - <= 5.0

US. Massachusetts, New Jersey, Pennsylvania or Rhode Island Right to Know Substance Lists :
See Section 2.

Canadian WHMIS Classification

Not regulated.

Canadian Environmental Protection Act (CEPA)

This product contains the following components listed on the Canadian NDSL list. All other components are on the Canadian DSL list.

- Tristyryl phenol-polyethylene glycol ether

SECTION 16. OTHER INFORMATION

This information is furnished without warranty, expressed or implied, and is believed to be accurate to the best knowledge of DotWorks. The data on this SDS relates only to the specific material designated herein. DotWorks assumes no legal responsibility for use or reliance upon these data. This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.