

Material Safety Data Sheet

REVITALIZE GUM REMOVER



1. Product and company identification

Trade name of product : REVITALIZE GUM REMOVER

Product use : Cleaning product

Product dilution information : Not applicable

Supplier's information : Ecolab Inc. Institutional Division
370 N. Wabasha Street
St. Paul, MN 55102
1-800-352-5326

Code : 926568-03

Date of issue : 25-July-2012

EMERGENCY HEALTH INFORMATION: 1-800-328-0026
Outside United States and Canada CALL 1-651-222-5352 (in USA)

2. Hazards identification

Product AS SOLD

Physical state : Aerosol

Emergency overview : CAUTION !

MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.
CONTENTS UNDER PRESSURE.
Liquid can cause burns similar to frostbite.
Can cause central nervous system (CNS) depression.
Intentional misuse by deliberate inhalation may be harmful or fatal.

Avoid contact with eyes, skin and clothing. Avoid breathing vapors, spray or mists. Keep away from heat, sparks and flame. Keep away from heat and direct sunlight. Do not puncture, incinerate or store the container at temperatures above 49°C (120°F) or in direct sunlight. Use only with adequate ventilation. Wash thoroughly after handling.

Potential acute health effects

Product AS SOLD

Eyes : Moderately irritating to eyes. Liquid can cause burns similar to frostbite.

Skin : Moderately irritating to the skin. Liquid can cause burns similar to frostbite.

Inhalation : Moderately irritating to the respiratory system. High vapor concentrations can cause headaches, dizziness, drowsiness and nausea and may lead to unconsciousness. Intentional misuse by deliberate inhalation may be harmful or fatal.

Ingestion : May be harmful if swallowed.

See toxicological information (Section 11)

Product AT USE DILUTION

Product is sold ready to use.

Product AT USE DILUTION

Product is sold ready to use.

3. Composition/information on ingredients

Product AS SOLD

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>
1,1,1,2-tetrafluoroethane	811-97-2	>50

Product AT USE DILUTION

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>
Product is sold ready to use.		

4. First aid measures

	Product AS SOLD	Product AT USE DILUTION
Eye contact	: In case of contact, immediately flush eyes with plenty of water. Remove contact lenses and flush again. Get medical attention if irritation persists.	Product is sold ready to use.
Skin contact	: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if irritation persists. Wash clothing before reuse. Clean shoes thoroughly before reuse. Dermal contact with rapidly evaporating liquid could result in freezing of the tissues or frostbite. Try to warm up the frozen tissues and seek medical attention.	
Inhalation	: If inhaled, remove to fresh air.	
Ingestion	: Do not induce vomiting. Get medical attention if symptoms occur.	

5. Fire-fighting measures

Product AS SOLD

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
halogenated compounds

Fire-fighting media and instructions : Use an extinguishing agent suitable for the surrounding fire.

Use water spray to keep fire-exposed containers cool. Containers may explode when heated. Ruptured cylinders may rocket. Dike area of fire to prevent runoff.

In a fire or if heated, a pressure increase will occur and the container may burst. Bursting aerosol containers may be propelled from a fire at high speed.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

	Product AS SOLD	Product AT USE DILUTION
Personal precautions	: Use personal protective equipment as required.	Product is sold ready to use.
Environmental precautions	: Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.	
Methods for cleaning up	: Use a water rinse for final clean-up.	

7. Handling and storage

Handling	Product AS SOLD
	: Avoid contact with eyes, skin and clothing. Avoid breathing vapors, spray or mists. Liquid and vapor under pressure. Do not puncture or incinerate container. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.
Storage	: Keep out of reach of children. Store in a closed container. Do not puncture or incinerate container. Store between the following temperatures: 0 and 50°C

Product AT USE DILUTION
Product is sold ready to use.

8. Exposure controls/personal protection

Engineering measures	Product AS SOLD
	: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Product AT USE DILUTION
Product is sold ready to use.

Personal protection

Eyes	: Safety eyewear should be used when there is a likelihood of exposure.
Hands	: For prolonged or repeated handling, use the following type of gloves: Impervious gloves.
Skin	: No protective equipment is needed under normal use conditions.
Respiratory	: Avoid breathing vapors, spray or mists.

Product is sold ready to use.

Ingredient	Exposure limits
1,1,1,2-tetrafluoroethane	AIHA WEEL (United States, 5/2010). TWA: 1000 ppm 8 hour(s).

9. Physical and chemical properties

Physical state	Product AS SOLD	
	: Aerosol	
	Flash point	: > 100°C
	Color	: Colorless
	Odor	: Alcohol-like
	pH	: 7 [Conc. (% w/w): 100%]
	Boiling/condensation point	: <35°C (<95°F)
	Relative density	: 0.787 to 0.797
Solubility	: Very slightly soluble in the following materials: cold water and hot water.	

Product AT USE DILUTION
Product is sold ready to use.

10. Stability and reactivity

Product AS SOLD

Stability	: The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.
Reactivity	: Reactive or incompatible with the following materials: metals.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

10. Stability and reactivity

Hazardous polymerization : Under normal conditions of storage and use, hazardous polymerization will not occur.

11. Toxicological information

Potential acute health effects

Product AS SOLD

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Inhalation : Moderately irritating to the respiratory system. High vapor concentrations can cause headaches, dizziness, drowsiness and nausea and may lead to unconsciousness. Intentional misuse by deliberate inhalation may be harmful or fatal.

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Product AS SOLD

Other adverse effects

Target organs : Contains material which causes damage to the following organs: heart, testes.
Contains material which may cause damage to the following organs: central nervous system (CNS).

12. Ecological information

Ecotoxicity : Not reported

13. Disposal considerations

Product AS SOLD

Waste disposal : Diluted product can be flushed to sanitary sewer. Avoid disposal. Attempt to use product completely in accordance with intended use. Do not puncture or incinerate container. Discard empty container in trash.

Product AT USE DILUTION

Product is sold ready to use.

14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

Product AS SOLD

DOT

DOT Classification UN3159

DOT Proper shipping name 1,1,1,2-Tetrafluoroethane

Class 2.2

Packing group -

IMO/IMDG

IMO/IMDG Classification UN3159

IMO/IMDG Proper shipping name Aerosols, non-flammable

Class 2.2

Packing group -

For transport in bulk, see shipping documents for specific transportation information.

15. Regulatory information

Product AS SOLD

HCS Classification : Compressed gas
Irritating material
Target organ effects

Product AT USE DILUTION

Product is sold ready to use.

Product AS SOLD

U.S. Federal regulations

TSCA 8(b) inventory : All components are listed or exempted.
SARA 302/304/311/312 extremely hazardous substances: No listed substance
SARA 302/304 emergency planning and notification: No listed substance

SARA 313 Product name CAS number Concentration

Form R - Reporting requirements : No listed substance

California Prop. 65 : No listed substance

16. Other information

Product AS SOLD

Hazardous Material Information System (U.S.A.) :

Health	*	1
Flammability		2
Physical hazards		0

National Fire Protection Association (U.S.A.) :



NFPA Aerosol Level : Level 1

Date of issue : 25-July-2012
Responsible name : Regulatory Affairs
1-800-352-5326

☑ Indicates information that has changed from previously issued version.

Notice to reader

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, **NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.**