



## Safety Data Sheet

(Prepared in accordance with EC No 1907/2006 and EC No 453/2010 Annex II as amended)

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This Safety Data Sheet cancels and replaces all preceding SDS for this Product

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

#### 1.1 Product identifier – Iced Gingerbread

References: Prolitec 1050  
Firmenich 480344 KW

#### 1.2 Relevant identified uses of the substance and uses advised against

The Relevant Identified Use is low concentration air treatment applications with Prolitec AirQ Atmospheres series continuous-action micro-droplet generation and diffusion systems. For Relevant Identified use only.

#### 1.3 Details of the supplier of the safety data sheet

##### **Prolitec Inc.**

1235 W. Canal Street  
Milwaukee, WI 53233 USA  
Tel: +1 414 615 4630 Fax +1 414 615 4640  
Email: [sds@prolitec.com](mailto:sds@prolitec.com)

##### **UK Contact**

Ambius  
Unit E Acorn Industrial Estate, Crayford Road  
Crayford, Kent, DA1 4AL  
**UK Tel:** +44 (0) 800 085 8744

#### 1.4 Emergency telephone number

For chemical emergency (spill, leak, exposure or incident)  
Call INFOTRAC: +1-800-535-5053 (inside USA) or +1-352-323-3500 (outside USA).

### SECTION 2 HAZARDS IDENTIFICATION – Applicable to exposure to the concentrated liquid such as may occur in an accidental spill. Safety information for the Relevant Identified Use as defined in Section 1.2 above is contained in Section 16.

#### 2.1 Classification of the substance or mixture

##### 2.1.1 Classification according to Regulation (EC) N° 1272/2008 [CLP/GHS]

Skin Sensitization - Cat. 1B	H317
Eye Irritation - Cat. 2	H319
Environmental Hazard (chronic) - Cat. 3	H412

##### 2.1.2 Classification according to 67/548/EEC or 1999/45/EC (See Section 16 for full text of risk phrases)

##### **Symbols:**

Xi Irritant

**Risks Phrases:**

R43 May cause sensitisation by skin contact.  
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.1.3 Additional information

Full text of listed statements: See Section 16

**2.2 Label elements**

**Hazard pictograms:**



**Signal word:**

Warning

**Hazard statements:**

H317 May cause an allergic skin reaction.  
H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements:**

P273 Avoid release to the environment.  
P280 Wear protective gloves/eye protection.  
P302+352 IF ON SKIN: Wash with plenty of soap and water.  
P333+313 If skin irritation or rash occurs: Get medical advice/attention.

**Supplemental hazard information (EU):**

Contains: Cinnamal, Eugenol, Bourgeonal, Methyl Ionone, Alpha-Iso-, Hexyl Salicylate, Butylphenylmethylpropional, Alpha-Methylcinnamaldehyde. May produce an allergic reaction.

**Hazard inducers:**

2-Propenal, 2-methyl-3-phenyl  
2-Propenal, 3-phenyl-  
Benzenepropanal, 4-(1, 1-dimethylethyl)-.alpha.-methyl-Phenol, 2-methoxy-4-(2-propenyl)-  
Benzenepropanal, 4-(1, 1-dimethylethyl)

**2.3 Other hazards**

No data available at this time.

**SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 Substances**

Not applicable

**3.2 Mixtures**

7.5 - 10.0% 2-Propenal, 2-Methyl-3-Phenyl-  
N° CAS : 0000101-39-3 / N° EINECS: 202-938-8  
Classification: Xi - R43  
GHS Classification:  
Skin Sensitization - Cat. 1B [H317]

7.5 - 10.0% 2-Propenal, 3-Phenyl-  
N° CAS : 0000104-55-2 / N° EINECS: 203-213-9  
Classification: Xn - R21,R38,R43  
GHS Classification:  
Acute Toxicity (dermal) - Cat. 4 [H312]  
Eye Irritation - Cat.2 [H319]  
Skin Irritation - Cat. 2 [H315]  
Skin Sensitization - Cat. 1 [H317]

1.0 - 2.5% 4h-Pyran-4-One, 2-Ethyl-3-Hydroxy-  
N° CAS : 0004940-11-8 / N° EINECS: 225-582-5  
Classification: Xn - R22  
GHS Classification:  
Acute Toxicity (oral) - Cat. 4 [H302]

1.0 - 2.5% Benzaldehyde, 4-Hydroxy-3-Methoxy-  
N° CAS : 0000121-33-5 / N° EINECS: 204-465-2  
Classification: Xi - R36  
GHS Classification:  
Eye Irritation - Cat.2 [H319]

1.0 - 2.5% Benzenepropanal, 4-(1,1-Dimethylethyl)-.Alpha.-Methyl-  
N° CAS : 0000080-54-6 / N° EINECS: 201-289-8  
Classification: Xn N - R43,R22,R51/53,R62,R38  
GHS Classification:  
Acute Toxicity (oral) - Cat. 4 [H302]  
Skin Irritation - Cat. 2 [H315]  
Skin Sensitization - Cat. 1B [H317]  
Environmental Hazard (chronic) - Cat. 2 [H411]  
Reproductive Toxicity - Cat. 2 [H361]

1.0 - 2.5% Benzyl Benzoate  
N° CAS : 0000120-51-4 / N° EINECS: 204-402-9  
Classification: Xn N - R22,R51/53  
GHS Classification:  
Acute Toxicity (oral) - Cat. 4 [H302]  
Environmental Hazard (chronic) - Cat. 2 [H411]

1.0 - 2.5% 2-Butanone, 3-Hydroxy-  
N° CAS : 0000513-86-0 / N° EINECS: 208-174-1  
Classification: - R10  
GHS Classification:  
Flammable Liquid - Cat. 3 [H226]

0.5 - 1.0% Phenol, 2-Methoxy-4-(2-Propenyl)-  
N° CAS : 0000097-53-0 / N° EINECS: 202-589-1  
Classification: Xi - R43,R36

GHS Classification:

Eye Irritation - Cat.2 [H319]  
Skin Sensitization - Cat. 1B [H317]

0.5 - 1.0% Benzenepropanal, 4-(1,1-Dimethylethyl)-

N° CAS : 0018127-01-0 / N° EINECS: 242-016-2

Classification: Xn N - R43,R22,R51/53,R62

GHS Classification:

Acute Toxicity (oral) - Cat. 3 [H301]  
Skin Sensitization - Cat. 1B [H317]  
Environmental Hazard (chronic) - Cat. 2 [H411]  
Reproductive Toxicity - Cat. 2 [H361]

0.5 - 1.0% Limonene

N° CAS : 0000138-86-3 / N° EINECS: 205-341-0

Classification: Xn N - R38,R43,R50/53,R65,R10

GHS Classification:

Aspiration Hazard - Cat. 1 [H304]  
Flammable Liquid - Cat. 3 [H226]  
Skin Irritation - Cat. 2 [H315]  
Skin Sensitization - Cat. 1 [H317]  
Environmental Hazard (acute) - Cat. 1 [H400]  
Environmental Hazard (chronic) - Cat. 1 [H410]

0.5 - 1.0% Benzoic Acid, 2-Hydroxy-, Hexyl Ester

N° CAS : 0006259-76-3 / N° EINECS: 228-408-6

Classification: Xi N - R38,R50/53,R43

GHS Classification:

Eye Irritation - Cat.2 [H319]  
Skin Irritation - Cat. 2 [H315]  
Skin Sensitization - Cat. 1 [H317]  
Environmental Hazard (acute) - Cat. 1 [H400]  
Environmental Hazard (chronic) - Cat. 1 [H410]

0.1 - 0.5% Oxabicyclo[2.2.2]Octane, 1,3,3-Trimethyl-

N° CAS : 0000470-82-6 / N° EINECS: 207-431-5

Classification: - R10

GHS Classification:

Flammable Liquid - Cat. 3 [H226]

0.1 - 0.5% 1,6-Octadien-3-ol, 3,7-Dimethyl-

N° CAS : 0000078-70-6 / N° EINECS: 201-134-4

Classification: Xi - R38

GHS Classification:

Eye Irritation - Cat.2 [H319]  
Skin Irritation - Cat. 2 [H315]  
Flammable Liquid - Cat. 4 [H227]

0.1 - 0.5% Terpineol

N° CAS : 0008000-41-7 / N° EINECS: 232-268-1

Classification: Xi - R36/38

GHS Classification:

Eye Irritation - Cat.2 [H319]

Skin Irritation - Cat. 2 [H315]

0.1 - 0.5% 3-Buten-2-One, 3-Methyl-4-(2,6,6-Trimethyl-2-Cyclohexen-1-Yl)-

N° CAS : 0000127-51-5 / N° EINECS: 204-846-3

Classification: Xi N - R51/53,R43

GHS Classification:

Skin Sensitization - Cat. 1B [H317]

Environmental Hazard (chronic) - Cat. 2 [H411]

## **SECTION 4 FIRST AID MEASURES**

### **4.1 Description of first aid measures**

As in all cases of potential poisoning, obtain medical advice immediately.

In the case of eye contact:

Irrigate copiously with water for at least 10 minutes. Obtain medical advice if any irritation persists.

In the case of inhalation:

In case of situations other than the Relevant Identified Use: Remove the affected individual to fresh air environment. Obtain medical advice immediately if irritation persists.

In the case of skin contact:

Remove contaminated clothes. Wash skin with large volumes of water (or soap and water). If irritation persists, or any sign of tissue damage is apparent, obtain medical advice immediately.

In the case of ingestion:

In the event of accidental ingestion, rinse mouth with water. Give up to 1 tumbler (half pint) of milk. Do not induce vomiting. Obtain medical advice immediately.

### **4.2 Most important symptoms and effects, both acute and delayed**

No information available on the product

### **4.3 Indication of immediate medical attention and special treatment needed**

None known.

## **SECTION 5 FIRE FIGHTING MEASURES**

### **5.1 Extinguishing media**

Use adequate extinguishers with foam, carbon dioxide or dry chemical.

### **5.2 Special hazards arising from the substance or mixture**

None known.

### **5.3 Advice for firefighters**

Do not use a high pressure water stream. In case of insufficient ventilation, wear suitable respiratory equipment.

## **SECTION 6 ACCIDENTAL RELEASE MEASURES**

### **6.1 Personal precautions, protective equipment and emergency procedures**

6.1.1 For Non-emergency personnel:

Use protective gloves when handling a spillage. Do not smoke. Avoid naked flames or other potential sources of ignition such as electrical equipment. Avoid contact with skin or eyes and inhalation of vapor. Use normal washing routines. Ensure adequate ventilation in working areas following a spill. Follow First Aid Measures in 4 above.

6.1.2 For emergency responders:

Follow the recommendation in 6.1

**6.2 Environmental Precautions**

Do not discharge into drains, soil or the aquatic environment.

**6.3 Methods and material for containment and cleaning up**

6.3.1 For containment:

Small spills can be wiped up with a cloth or paper. For larger spills, use standard absorbents such as saw dust, sand or vermiculite

6.3.2 For cleaning up:

Use cloth or paper for spills from the smaller cartridges. If a larger cartridge is spilled use an absorbent such as saw dust, vermiculite or sand. Dispose of clean up materials in accordance with government regulations.

**6.4 References to other sections**

Please see also sections 4, 5, 7 and 16 for further information.

**SECTION 7 HANDLING AND STORAGE**

**7.1 Precautions for safe handling**

Always reseal any cartridge removed from an appliance.  
Keep cartridges in an upright position after unsealing.  
Avoid contact with skin and eyes  
Wear adequate protective gloves and eye protection  
No smoking; avoid sources of ignition  
Avoid exposing to high temperature during processing  
Do not ingest or apply to skin  
Follow good personal washing routines  
Where the product is handled maintain adequate ventilation

7.1.1 Protective measures

Keep strict control of dust accumulation. Maintain adequate ventilation, avoid naked flames and other sources of ignition.

7.1.2 Advice on general occupational hygiene

Use good washing routines.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in cartridges positioned upright in a master carton in a place without exposure to sunlight at room temperature.

**7.3 Specific end uses**

Environmental fragrance.

## SECTION 8 EXPOSURE CONTROLS

### Control parameters:

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Also see Section 16.3

### 8.1 Exposure controls

Avoid exposing to high temperatures; maintain adequate ventilation.

#### 8.2.1 Appropriate engineering controls

Maintain adequate ventilation where produce is handled.  
In the Relevant Identified Use – use only as directed

#### 8.2.2 Environmental exposure controls

In the Relevant Identified Use, use as directed.  
In handling of the liquid, minimize release into the environment

#### 8.2.3 Personal Protection

In the Relevant Identified Use and in handling the cartridges, personal protective wear is not required. In the bulk handling of the liquid or in accidental spill clean-up, protective gloves and safety glasses are required.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on the basic physical and chemical properties

(a) Appearance:	LIQUID colorless to pale yellow
(b) Odor	Strong perfume
(c) Odor Threshold	Not available
(d) pH	Not Available
(e) Melting Point/Freezing Point range °C	Not Available
(f) Initial Boiling Point/range °C	Not Available
(g) Flash Point	94°C / 201.2°F
(h) Evaporation Rate	Not Available
(i) Flammability	Low
(j) Upper/Lower Explosion Limits	Not Available
(k) Vapor Pressure	<.1 Hg @ 20°C
(l) Vapor Density	Not applicable
(m) Relative Density	.906 - .916
(n) Water Solubility	Not Applicable
(o) Partition coefficient (n-octanol/water):	Not Applicable
(p) Auto Ignition Temperature	Unknown
(q) Decomposition Temperature	Not Available
(r) Viscosity	Not Available
(s) Explosive Properties	None
(t) Oxidizing Properties	Not an oxidizing agent

### 9.2 Other information

None

## **SECTION 10 STABILITY AND REACTIVITY**

### **10.1 Reactivity**

No known reaction with water.

### **10.2 Chemical stability**

Presents no significant reactivity hazard. Normally stable even at elevated temperatures and pressures. Does not undergo explosive decomposition. It is not pyrophoric or an oxygen donor. Does not combine with other organic materials to form explosive mixtures. Will not undergo hazardous exothermic polymerization.

### **10.3 Possibility of hazardous reactions**

Not known.

### **10.4 Conditions to avoid**

Avoid contact with oxidizing agents.  
Avoid temperatures above 5° C below the flash point.  
Do not heat cartridge or closed containers.

### **10.5 Incompatible materials**

Avoid oxidizing agents.

### **10.6 Hazardous decomposition products**

Contact with water or storage under recommended conditions for one year should not produce dangerous decomposition products.

## **SECTION 11 TOXICOLOGICAL INFORMATION**

### **11.1 Information on toxicological effects**

This mixture has not been subjected to toxicological testing as an entity. According to available data on the constituents, the health classification criteria are met.

## **SECTION 12 ECOLOGICAL INFORMATION**

### **12.1 Toxicity**

This mixture has not been subjected to eco-toxicological testing as an entity. In view of the difficulty of using current standard eco-toxicological evaluation techniques to predict the impact of particular modes of release on vulnerable or localized parts of the ecosystem, this preparation should be considered and handled as if it displayed potential environmental hazards, and treated in consequence with all possible precaution.

### **12.2 Persistence and biodegradability**

Not determined

### **12.3 Bioaccumulative potential**

Not determined.



#### **12.4 Mobility in soil**

Not determined.

#### **12.5 Results of PBT and vPvB assessment**

Does not meet the requirements for assessment

#### **12.6 Other adverse effects**

None known.

### **SECTION 13 DISPOSAL CONSIDERATIONS**

#### **13.1 Waste treatment methods**

Best means of disposal of any product is through its proper use according to instructions. Disposal must be in accordance with local, state and national requirements.

This product is dangerous for the environment. Do not discharge to sewers, drains or water courses. This product must be disposed of as hazardous waste. The empty container may be disposed of as controlled waste in accordance with appropriate regulations. The containers are recyclable in some countries equipped to recycle Polypropylene.

### **SECTION 14 TRANSPORT INFORMATION**

**14.1 UN number:** Not Regulated

**14.2 Proper Shipping Name:** Not Regulated

**14.3 Transport Hazard Class:** Not Regulated

**14.4 Packing Group:** Not Regulated

**14.5 Environmental hazard:** Not Regulated

**14.6 Special Precautions for user:** None

### **SECTION 15 REGULATORY INFORMATION**

#### **15.1 EU Regulations**

No relevant information available at this time.

#### **15.2 Chemical safety assessment**

No data available at this time.

### **SECTION 16 OTHER SAFETY INFORMATION**

#### **16.1 Revisions**

17-June-13 Version 1.1

#### **16.2 Key literature references and sources of data**

**Research Institute for Fragrance Materials (RIFM)**

**OECD SIDS Organization for Economic Cooperation and Development (OECD),**  
United States Environmental Protection Agency. Voluntary Testing Program for High Volume Chemicals

**COUNCIL DIRECTIVE 98/24/EC of 7 April 1998**

The protection of the health and safety of workers from the risks related to chemical agents at work (fourteenth individual Directive within the meaning of Article 16(1) of Directive 89/391/EEC)

**EUROPEAN COMMISSION, Recommendation from the Scientific Committee for Occupational Exposure Limits, February, 2013 (SCOEL)**

**EU IUCLID International Uniform Chemical Information Data Base**

European Chemicals Agency European Commission Council Directive 98/24/EC – the first and the second lists of IOELs and amending Directives 91/322/EEC and 2000/39/EC. (98/24/EC)

**American Congress of Governmental and Industrial Hygienist (“ACGIH”)**

Threshold Limited Values (TLV) and Biological Exposure Indices (BEI) including TLV – TWA (time-weighted average; TLV–STEL (short term exposure limit); and TLV-C (ceiling). (ACGIH)

**Institut National de Recherche et de Sécurité (INRS)**

*Valeurs limites d'exposition professionnelle (Occupational Exposure Limits or OELs) aux agents chimiques en France*, Aide-mémoire technique ED 984. Comité Scientifique pour la Surveillance des Atmosphères de Travail (Scientific Committee for Surveillance of the Workplace), working under the High Council for the Prevention of Occupational Hazards Environment.

**U.S. Department of Labor, Occupational Safety and Health Administration (OSHA)**

29 CFR 1910.1200 Subpart Z, Table Z-1 TLV-TWA maximum continuous exposure limits.

**US State of California, Environmental Protection Agency**

Office of Health Hazard Assessment (OEHHA), Safe Drinking Water and Toxic Enforcement Act of 1986. Maximum continuous exposure TLV-TWA Limits.

**German Federal Ministry of Labor and Social Affairs (BMAS)**

TRGS 900 Arbeitsplatzgrenzwert (Occupational Exposure Limits) Ausschuss für Gefahrstoffe - AGS-Geschäftsführung - BAuA

**Bundesanstalt für Arbeitsschutz und Arbeitsmedizin;** Federal Institute for Occupational Safety and Health, Dortmund, Germany

**Instituto Nacional de Seguridad e Higiene en el Trabajo (INSHT), Spain**

Límites de exposición profesional para agentes químicos en España

**16.3 Workplace safety information for relevant identified use**

The ACGIH, the EU, EU member states, and other national organizations including those listed in 16.1 above have established occupational exposure limits (OELs) limits for concentrations of hazardous substances in workplace air (“Limits”). The Limits value is the limit of the time-weighted average of the concentration of a substance in the air within the breathing zone of a worker over a specified reference period which is usually 40 hours per week over 40 years. The Limits, depending on their source, are also called Indicated Occupational Exposure Limit (IOEL) or Threshold Limit Value (TLV-TWA).

16.3.1 The Product contains substances which are subject to workplace Limits.

16.3.2 Workplace Safety Evaluation

The Relevant Identified Use of the Product has been evaluated for workplace safety considering: (A) the average airborne concentration (reported as parts per million PPM) of the total mixture when the scent effect is assessed by humans as “Intolerable;” (B) the volume by weight of the substance (reported as a %) of the weight of the total mixture represented by the substance as a

proportion of the mixture ; (C) the maximum average potential airborne concentration of the substance; and (D) the safe Limit. The safety evaluation formula is  $A \text{ (ppm)} \times B \text{ (\%)} = C$  which is then compared to the Limits in D.

### 16.3.3 Workplace Safety Determination

The Relevant Identified Use of the Product is estimated to not exceed the Limits established by the organizations listed in 16.2.

### 16.3.4 Ozone

The Formulation contains no ozone and the Relevant Identified Use does not generate ozone. The Formulation contains no toxic chemical or chemicals subject to reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986.

### 16.3.5 Ingestion Toxicity

The probable oral lethal dosage of the Formulation for a 150 lbs person is 245.6 ml as determined using the Gosselin formula. According to the Hodge and Sterner scale the Toxicity Class for the Formulation is estimated at level 3 or “Moderately Toxic.” The Gosselin, Smith and Hodge Scale is Level 3 or “Moderately Toxic.”

### 16.3.6 IFRA Analysis and Safety Determination for Skin Contact

<u>FRAGRANCE</u>	<u>IFRA CLASS</u>	<u>IFRA ANALYSIS</u>
Iced Gingerbread	11A	Not restricted

IFRA Class 11A includes;

- Air Fresheners and Fragrancing of all types (plug-ins, solid substrate, membrane delivery, ambient, electrical) excluding aerosol products.
- Scent delivery systems using a dry air technology that releases a fragrance without sprays, aerosols or heated oils (technology of nebulization).

Based on safety data generated by the Research Institute for Fragrance Materials (“RIFM” [www.RIFM.org](http://www.RIFM.org)), its vendors and the open scientific literature. This data is evaluated in accordance with the principles laid down in Annex 1 to the International Fragrance Association (“IFRA” [www.ifraorg.org](http://www.ifraorg.org)) Code of Practice. Annex 1 requires consideration of possible effects in the skin, including skin irritation and sensitization with special attention paid to the effect of sunlight, should ingredients absorb ultra-violet radiation. Systemic toxicity should be considered in relation to the quantities used and likelihood of entering the body. Also considered is a history of safe-use of the ingredients at the concentration levels which may occur in the event of accidental release taking into account any reports of adverse effects reported by dermatologists or other medical professionals.

## 16.4 Full text of phrases used under section 2

S24	Avoid contact with skin.
S37	Wear suitable gloves.
S61	Avoid release to the environment. Refer to special instructions/ Safety data sheets.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/eye protection.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

	lenses, if present and easy to do. Continue rinsing.
P302+352	IF ON SKIN: Wash with plenty of soap and water.
P333+313	If skin irritation or rash occurs: Get medical advice/attention.
P391	Collect spillage.
P363	Wash contaminated clothing before reuse.
P337	If eye irritation persists:

### 16.5 Full text of phrases used under section 3

H226	Flammable liquid and vapour.
H312	Harmful in contact with skin.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H400	Very toxic to aquatic life.
H304	May be fatal if swallowed and enters airways.
H301	Toxic if swallowed.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H315	Causes skin irritation.
H227	Combustible liquid.
H302	Harmful if swallowed.
H361	Suspected of damaging fertility or the unborn child.
R10	Flammable.
R21	Harmful in contact with skin.
R22	Harmful if swallowed.
R36	Irritating to eyes.
R38	Irritating to skin.
R43	May cause sensitisation by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R62	Possible risk of impaired fertility.
R65	Harmful: may cause lung damage if swallowed.