

## 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 – Dark Chocolate

References: Prolitec 9097

Firmenich 401285 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 Air/Q Atmospheres series continuous-action micro-droplet generation and diffusion systems. For Relevant Identified use only. Workplace Safety Information for the Relevant Identified Use is contained in Section 16.

#### 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 only 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]

Eye Irritation - Cat. 2

H319

Environmental Hazard (chronic) - Cat. 2

H412

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

**Symbols:**

## **Risks Phrases:**

### **2.1.3 Additional information**

Full text of listed statements: See Section 16

## **2.2 Label elements**

### **Hazard pictograms:**



### **Signal word:**

Warning

### **Hazard statements:**

H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

### **Precautionary statements:**

P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves and 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.
P337+313	If eye irritation persists: Get medical advice/attention.
P391	Collect spillage.

### **Supplemental hazard information (EU):**

Contains: ----

### **Hazard inducers:**

2-phenoxyethanol  
Benzaldehyde, 4-hydroxy-3-methoxy-

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

5.0 - 7.5%  
2-Phenoxyethanol  
N° CAS : 0000122-99-6  
N° EINECS: 204-589-7

Classification: Xn - R22,R36  
GHS Classification:  
Acute Toxicity (oral) - Cat. 4 [H302]  
Eye Irritation - Cat.2 [H319]

2.5 - 5.0%  
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%  
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]

## 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. See Relevant Identified Use.

## SECTION 8 EXPOSURE CONTROLS

### 8.1 Control parameters:

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Also see Section 16.3

### 8.2 Exposure controls

Avoid exposing to high temperatures; maintain adequate ventilation.

#### 8.2.1 Appropriate engineering controls

Maintain adequate ventilation where product 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 Colourless 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	>100°C / >212°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	.913 - .923
(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

**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:** Not Regulated

## **SECTION 15 REGULATORY INFORMATION**

### **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**

#### **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-2013: Version 1.1 – First version validated for publication

27-Jan-2014: Version 1.2 – Updates to sections 1, 16

## 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 may contain substances which are subject to workplace Limits. (Please refer to section 8.1.)

16.3.2 Workplace Safety Evaluation

If fragrance mixture contains a substance subject to workplace limitations (See Section 8.1), 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 lowest safe limit according to the sources listed in 16.2. The safety evaluation formula is  $A \text{ (ppm)} \times B \text{ (\%)} = C$ , which is then compared to the Limits in D, and there is a margin of safety (MoS) of at least 100.

16.3.3 Workplace Safety Determination

If fragrance mixture contains a substance subject to workplace limitations (See Section 8.1), 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 Fire and Explosion Information

Flashpoint: The Flash or Ignition point is determined by the **Pensky–Martens closed-cup flash-point test**. A brass cup is filled with the pure liquid and fitted with a cover. The sample is heated and stirred at specified rates. An ignition source is directed into the cup at regular intervals with simultaneous interruption of stirring until a flash that spreads throughout the inside of the cup is seen. The corresponding temperature is its flash point or ignition point. In this test, the liquid and the vapor in the brass cup are assumed to be in equilibrium which, among other things, means that the vapor concentration is condensing into liquid at the same rate as the vapor is produced off the liquid surface – the so-called “saturation point.”

Explosive Limits: In the Relevant Identified Use, the measure of risk of flammability is the *Flammable or Explosive Range*. This is the range of concentration of the vapor emitted by Prolitec Appliances will burn (or explode) if an ignition source such as an open flame is introduced. Below the explosive or flammable range the concentration of the mixture is too low to burn and above the upper explosive or flammable limit the mixture is too high or rich to burn. This is usually referred to as the LEL or Lower Explosive Limit and UEL Upper Explosive Limit.

Risk Assessment The Formulation in the Relevant Identified Use as directed does not present concentrations within the explosive range at any step or stage.

16.3.6 Ingestion Toxicity

For information on the probable oral lethal dosage of the Formulation, please contact [sds@prolitec.com](mailto:sds@prolitec.com).

16.3.7 IFRA Analysis and Safety Determination for Skin Contact

<u>FRAGRANCE</u>	<u>IFRA CLASS</u>	<u>IFRA ANALYSIS</u>
Dark Chocolate	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 system 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

S61	Avoid release to the environment. Refer to special instructions/ Safety data sheets.
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 and 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.
P337+313	If eye irritation persists: Get medical advice/attention.
P391	Collect spillage.

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

H411	Toxic to aquatic life with long lasting effects.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
R22	Harmful if swallowed.
R36	Irritating to eyes.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.