



SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Mixture identification:

Trade name: BT Deo Invisible Spray MINISIZE 45ml

Product code: R960094

Product type and use: cosmetic deodorant

Aerosol

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use:

See label: instructions and precautions

LCS C Consumer Use

SU 0 Other

PC39 Cosmetics, personal care products

Uses advised against:

See label: instructions and precautions.

1.3. Details of the supplier of the safety data sheet

Company:

MANETTI & ROBERTS & C.p A.

Via Baldanzese, 177,

50041 Calenzano (FI) - Italy

+39 055 8835453 - fax +39 055 8835486

Competent person responsible for the safety data sheet:

safetyinfo@boltonmanitoba.it

1.4. Emergency telephone number

+39 055 8835453

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)



Danger, Aerosols 1, Extremely flammable aerosol. Pressurized container: may burst if heated.

Aquatic Chronic 3, Harmful to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Danger

Hazard statements:

H222, H229 Extremely flammable aerosol. Pressurized container: may burst if heated.



H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P273 Avoid release to the environment.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.

P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

None

Contains

benzyl salicylate: May produce an allergic reaction.

isoeugenol: May produce an allergic reaction.

2.3. Other hazards

PBT, vPvB or endocrine disruptor substances present in concentration $\geq 0.1\%$:

$\geq 8\% - < 10\%$ CYCLOPENTASILOXANE - CAS: 541-02-6, EC: 208-764-9:

PBT, vPvB

Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
$\geq 50\% - < 60\%$	BUTANE	CAS: 106-97-8 EC: 203-448-7 REACH No.: 01-21194746 91-32-XXXX	2.2/1 Flam. Gas 1 H220 2.5 Press. Gas H280
$\geq 15\% - < 20\%$	ISOBUTANE	CAS: 75-28-5 EC: 200-857-2 REACH No.: 01-21194853 95-27-XXXX	2.2/1 Flam. Gas 1 H220 2.5 Press. Gas H280
$\geq 10\% - < 15\%$	PROPANE	CAS: 74-98-6 EC: 200-827-9 REACH No.: 01-21194869 44-21-XXXX	2.2/1 Flam. Gas 1 H220 2.5 Press. Gas H280
$\geq 8\% - < 10\%$	CYCLOPENTASILOXANE	CAS: 541-02-6 EC: 208-764-9	The product is not classified as hazardous according to Regulation EC 1272/2008 (CLP).
$\geq 0,25\% - < 0,5\%$	hexamethylindanopyran	Index number: 603-212-00-7 CAS: 1222-05-5 EC: 214-946-9 REACH No.: 01-21194882	4.1/A1 Aquatic Acute 1 H400 4.1/C1 Aquatic Chronic 1 H410



		27-29-XXXX		
>= 0,1% - < 0,25%	benzyl salicylate	CAS: EC: REACH No.:	118-58-1 204-262-9 01-21199694 42-31-XXXX	3.3/2 Eye Irrit. 2 H319 3.4.2/1-1A-1B Skin Sens. 1,1A,1B H317 4.1/C3 Aquatic Chronic 3 H412
>= 0,0015% - <0,005%	isoeugenol	CAS: EC:	97-54-1 202-590-7	3.1/4/Dermal Acute Tox. 4 H312 3.1/4/Inhal Acute Tox. 4 H332 3.1/4/Oral Acute Tox. 4 H302 3.2/2 Skin Irrit. 2 H315 3.3/2 Eye Irrit. 2 H319 3.4.2/1A Skin Sens. 1A H317 3.8/3 STOT SE 3 H335 Specific Concentration Limits: C >= 0,01%: Skin Sens. 1A H317

SVHC, PBT, vPvB, endocrine disruptor substances:

>= 8% - < 10% CYCLOPENTASILOXANE
 CAS: 541-02-6, EC: 208-764-9
 PBT, vPvB, SVHC

For full text of the R, H and EUH sentences mentioned in this Section, see Section 16.
 Exposure limits in the workplace, if available, are listed in Section 8.1.

[1] Exempted: ionic mixture. See Regulation 1907/2006/EC, Annex 5, paragraphs 3 and 4 and "Guidance for Annex V - Exemptions from the obligation to register" (http://echa.europa.eu/documents/10162/13632/annex_v_en.pdf). This salt is potentially present on the basis of calculations and is included in the list of substances for the purposes of classification and labeling only. The starting substances of the ionic mixture are registered or exempted.

[2] Exempted: Included in Annex IV of Regulation 1907/2006/EC.

[3] Exempted: Included in Annex V of Regulation 1907/2006/EC.

[4] Polymer, exempted under Article. 2.9 of Regulation 1907/2006/EC.

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

4.2. Most important symptoms and effects, both acute and delayed

None

4.3. Indication of any immediate medical attention and special treatment needed

Treatment:

None



SECTION 5: Firefighting measures

- 5.1. Extinguishing media
 - Suitable extinguishing media:
CO2 or Dry chemical fire extinguisher.
 - Extinguishing media which must not be used for safety reasons:
None in particular.
- 5.2. Special hazards arising from the substance or mixture
 - Do not inhale explosion and combustion gases.
 - Burning produces heavy smoke.
- 5.3. Advice for firefighters
 - Use suitable breathing apparatus .
 - Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
 - Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures
 - Wear personal protection equipment.
 - Remove all sources of ignition.
 - Remove persons to safety.
 - See protective measures under point 7 and 8.
- 6.2. Environmental precautions
 - Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
 - Retain contaminated washing water and dispose it.
 - In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
 - Suitable material for taking up: absorbing material, organic, sand
- 6.3. Methods and material for containment and cleaning up
 - Wash with plenty of water.
- 6.4. Reference to other sections
 - See also section 8 and 13

SECTION 7: Handling and storage

- 7.1. Precautions for safe handling
 - Avoid contact with skin and eyes, inhalation of vapours and mists.
 - Don't use empty container before they have been cleaned.
 - Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
 - See also section 8 for recommended protective equipment.
 - Advice on general occupational hygiene:
Contaminated clothing should be changed before entering eating areas.
 - Do not eat or drink while working.
- 7.2. Conditions for safe storage, including any incompatibilities
 - Keep in a fresh and ventilated area.
 - Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.
 - Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.
 - Keep away from food, drink and feed.
 - Incompatible materials:
None in particular.
 - Instructions as regards storage premises:



Cool and adequately ventilated.
7.3. Specific end use(s)
None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
BUTANE - CAS: 106-97-8
TLV TWA - 1000 ppm - 0 mg/m3
ISOBUTANE - CAS: 75-28-5
TLV TWA - 1000 ppm - 0 mg/m3
PROPANE - CAS: 74-98-6
TLV TWA - 1000 ppm - 0 mg/m3
DNEL Exposure Limit Values
Not applicable
PNEC Exposure Limit Values
Not applicable
8.2. Exposure controls
Eye protection:
Eye glasses.
Protection for skin:
No special precaution must be adopted for normal use.
Protection for hands:
Butyl caoutchouc (butyl rubber).
waterproof gloves
NR (natural rubber, natural latex).
PE (polyethylene).
Respiratory protection:
Not needed for normal use.
Thermal Hazards:
None
Environmental exposure controls:
None
Appropriate engineering controls:
None



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Physical state:	Aerosol	--	--
Colour:	Not applicable	--	--
Odour:	characteristic	--	--



	floral		
Odour threshold:	ND	--	smell distinctly perceptible under normal use conditions.
Melting point/freezing point:	Not applicable	--	--
Boiling point or initial boiling point and boiling range:	Not applicable	--	--
Flammability:	Not applicable	--	--
Lower and upper explosion limit:	Not applicable	--	aerosol product
Flash point:	Not applicable	--	aerosol
Auto-ignition temperature:	Not applicable	--	--
Decomposition temperature:	Not applicable	--	--
pH:	Not applicable	--	--
Kinematic viscosity:	Not applicable	--	--
Solubility in water:	Complete	--	--
Solubility in oil:	Partial	--	--
Partition coefficient n-octanol/water (log value):	ND	--	mixture of many different substances
Vapour pressure:	Not applicable	--	--
Density and/or relative density:	Not applicable	--	--
Relative vapour density:	ND	--	it contains flammable gas heavier than air
Particle characteristics:			
Particle size:	Not applicable	--	--
Nanoforms:	N.A.	--	--

9.2. Other information
 No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

No known particular risks of reaction with other substances in normal conditions of use. It contains heavier air flammable gases that may accumulate and ignite in enclosed or inadequately ventilated

10.2. Chemical stability

The product is stable under normal storage conditions (between -10 ° C and + 50 ° C)
 Stable under normal conditions

10.3. Possibility of hazardous reactions

Without adequate ventilation, the accumulation of propellant gas released in the use or accidental loss canister could lead to hazardous atmospheres.

10.4. Conditions to avoid

Avoid conditions of handling, storage and use other than those explicitly indicated on the label and / or in Sections 7 and 8

10.5. Incompatible materials

There is no known specific problems of incompatibility



- Avoid contact with combustible materials. The product could catch fire.
- 10.6. Hazardous decomposition products
None.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological information of the product:

Not applicable

Toxicological information of the main substances found in the product:

Not applicable

If not differently specified, the information required in Regulation (EU)2020/878 listed below must be considered as N.A.:

- a) acute toxicity;
 - b) skin corrosion/irritation;
 - c) serious eye damage/irritation;
 - d) respiratory or skin sensitisation;
 - e) germ cell mutagenicity;
 - f) carcinogenicity;
 - g) reproductive toxicity;
 - h) STOT-single exposure;
 - i) STOT-repeated exposure;
 - j) aspiration hazard.
- 11.2. Information on other hazards
- Endocrine disrupting properties:
No endocrine disruptor substances present in concentration $\geq 0.1\%$

SECTION 12: Ecological information

- 12.1. Toxicity
Adopt good working practices, so that the product is not released into the environment.
Not applicable
- 12.2. Persistence and degradability
None
Not applicable
- 12.3. Bioaccumulative potential
Not applicable
- 12.4. Mobility in soil
Not applicable
- 12.5. Results of PBT and vPvB assessment
PBT Substances:
 $\geq 8\% - < 10\%$ CYCLOPENTASILOXANE - CAS: 541-02-6
vPvB Substances:
 $\geq 8\% - < 10\%$ CYCLOPENTASILOXANE - CAS: 541-02-6
- 12.6. Endocrine disrupting properties
No endocrine disruptor substances present in concentration $\geq 0.1\%$
- 12.7. Other adverse effects
None

SECTION 13: Disposal considerations

- 13.1. Waste treatment methods
Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.



SECTION 14: Transport information

- 14.1. UN number or ID number
ADR/RID-UN number: 1950
IATA-Un number: 1950
IMDG-Un number: 1950
- 14.2. UN proper shipping name
ADR-Shipping Name: AEROSOL, FLAMMABLE
IATA-Shipping Name: AEROSOL, FLAMMABLE
IMDG-Shipping Name: AEROSOL, FLAMMABLE
- 14.3. Transport hazard class(es)
ADR/RID-Class: 2
ADR-Label: 2.1
IATA-Class: 2.1
IATA-Label: flammable gas
IMDG-Class: 2
- 14.4. Packing group
IATA-Packing group: -
- 14.5. Environmental hazards
Marine pollutant: No
IMDG-EMS: F-D, S-U
- 14.6. Special precautions for user
ADR-Transport category (Tunnel restriction code): (D)
IMDG-Shipping Name: AEROSOL, FLAMMABLE
- 14.7. Maritime transport in bulk according to IMO instruments
Not applicable

SECTION 15: Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) n. 2020/878
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)
Regulation (EU) n. 2017/776 (ATP 10 CLP)
Regulation (EU) n. 2018/669 (ATP 11 CLP)
Regulation (EU) n. 2018/1480 (ATP 13 CLP)
Regulation (EU) n. 2019/521 (ATP 12 CLP)
Regulation (EU) n. 2020/217 (ATP 14 CLP)
Regulation (EU) n. 2020/1182 (ATP 15 CLP)
Regulation (EU) n. 2021/643 (ATP 16 CLP)
Regulation (EU) n. 2021/849 (ATP 17 CLP)



Regulation (EU) n. 2022/692 (ATP 18 CLP)
Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:
Restrictions related to the product:
Restriction 3
Restriction 40
Restrictions related to the substances contained:
Restriction 70
Restriction 75
Where applicable, refer to the following regulatory provisions :
Directive 2012/18/EU (Seveso III)
Regulation (EC) nr 648/2004 (detergents).
Dir. 2004/42/EC (VOC directive)
SVHC Substances:
Substances in candidate list (Art. 59 Reg. 1907/2006, REACH):
CYCLOPENTASILOXANE
PBT, vPvB
Provisions related to directive EU 2012/18 (Seveso III):
Seveso III category according to Annex 1, part 1
Product belongs to category: P3a

15.2. Chemical safety assessment
No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Text of phrases referred to under heading 3:
H220 Extremely flammable gas.
H280 Contains gas under pressure; may explode if heated.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.
H312 Harmful in contact with skin.
H332 Harmful if inhaled.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H335 May cause respiratory irritation.

Hazard class and hazard category	Code	Description
Flam. Gas 1	2.2/1	Flammable gas, Category 1
Aerosols 1	2.3/1	Aerosol, Category 1
Press. Gas	2.5	Gases under pressure
Acute Tox. 4	3.1/4/Dermal	Acute toxicity (dermal), Category 4
Acute Tox. 4	3.1/4/Inhal	Acute toxicity (inhalation), Category 4
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Skin Sens. 1,1A,1B	3.4.2/1-1A-1B	Skin Sensitisation, Category 1,1A,1B
Skin Sens. 1A	3.4.2/1A	Skin Sensitisation, Category 1A



STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Aerosols 1, H222, H229	On basis of test data
Aquatic Chronic 3, H412	Calculation method

This document was prepared by a competent person who has received appropriate training.
 Main bibliographic sources:

ACGIH - Threshold Limit Values for Chemical Substances (www.acgih.org)

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

User is responsible of complying all current and pertaining legislations, regulations and directives. Company is not liable for any damage to persons or goods, caused by improper usage of information given in this safety data sheet.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
N.A.:	Not applicable

BT Deo Invisible Spray MINISIZE 45ml
SAFETY DATA SHEET (Regulation (EU) 2020/878)



N.D.: Not available
PNEC: Predicted No Effect Concentration.
RID: Regulation Concerning the International Transport of Dangerous Goods
by Rail.
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
TLV: Threshold Limiting Value.
TWA: Time-weighted average
WGK: German Water Hazard Class.