



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

1.1. Product identifier

Mixture identification:
Trade name: MERITO - SPRAY
Product code: 1F0032
Product type and use: Ironing aid
Aerosol

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

Recommended use:

See label: instructions and precautions

Uses advised against:

See label: instructions and precautions.

1.3. Details of the supplier of the safety data sheet

Company:
BOLTON MANITOBA SPA
Via Pirelli, 19
20124 Milano - Italy
Tel. +39 02 6709 333 - Fax +39 0362 378 228
Distributor:
Alf. Mizzi & Sons (Mktg) Group
Zachary House
Marsa Industrial Estate -
MARSA LQA 06 -MALTA - tel. 00356 2554 0000

+39 02 6709 333

Competent person responsible for the safety data sheet:

safetyinfo@boltonmanitoba.it

1.4. Emergency telephone number

+39 02 6709 333

00356 2554 0000

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

Warning, Aerosols 3, Pressurized container: may burst if heated.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:

None

Warning

Hazard statements:

H229 Pressurized container: may burst if heated.

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.

P251 Do not pierce or burn, even after use.



P271 Use only outdoors or in a well-ventilated area.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.

Special Provisions:

None

Contains

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]; and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1): May produce an allergic reaction.

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

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
>= 10% - < 12,5%	Hydrocarbons, C3-4; Petroleum gas	Index number: 649-199-00-1 CAS: 68476-40-4 EC: 270-681-9 REACH No.: 01-2119486557-22-XXXX	⚠ 2.5 Press. Gas H280 ⚠ 2.2/1 Flam. Gas 1 H220
>= 0,1% - < 0,25%	disodium tetraborate decahydrate; borax decahydrate	Index number: 005-011-01-1 CAS: 1303-96-4 EC: 215-540-4 REACH No.: 01-2119490790-32-XXXX	⚠ 3.7/1B Repr. 1B H360 ⚠ 3.3/2 Eye Irrit. 2 H319 Specific Concentration Limits: C >= 8,5%: Repr. 1B H360FD
< 0,002%	reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]; and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	Index number: 613-167-00-5 CAS: 55965-84-9 REACH No.: 01-2120764691-48-XXXX	⚠ 3.2/1B Skin Corr. 1B H314 ⚠ 3.4.2/1A Skin Sens. 1A H317 ⚠ 4.1/A1 Aquatic Acute 1 H400 M=100. ⚠ 4.1/C1 Aquatic Chronic 1 H410 M=100. ⚠ 3.1/3/Oral Acute Tox. 3 H301 ⚠ 3.1/2/Dermal Acute Tox. 2 H310 ⚠ 3.1/2/Inhal Acute Tox. 2 H330 EUH071 Specific Concentration Limits: C >= 0,6%: Eye Dam. 1 H318 C >= 0,0015%: Skin Sens. 1A H317 0,06% <= C < 0.6%: Skin Irrit. 2 H315 0,06% <= C < 0.6%: Eye Irrit. 2 H319



			C >= 0,6%: Skin Corr. 1C H314
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SVHC Substances:

>= 0,1% - < 0,25% disodium tetraborate decahydrate; borax decahydrate
REACH No.: 01-2119490790-32-XXXX, Index number: 005-011-01-1, CAS: 1303-96-4,
EC: 215-540-4
Substance 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:

Water.

Carbon dioxide (CO₂).

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 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.
Contaminated clothing should be changed before entering eating areas.
Do not eat or drink while working.
See also section 8 for recommended protective equipment.
- 7.2. Conditions for safe storage, including any incompatibilities
Keep in a fresh and ventilated area.
Store at below 20 °C. 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:
Adequately ventilated premises.
- 7.3. Specific end use(s)
None in particular

SECTION 8: Exposure controls/personal protection

- 8.1. Control parameters
Hydrocarbons, C3-4; Petroleum gas - CAS: 68476-40-4
TLV TWA - 1000 ppm - 0 mg/m³
disodium tetraborate decahydrate; borax decahydrate - CAS: 1303-96-4
ACGIH - TWA(8h): 2 mg/m³ - STEL: 6 mg/m³ - Notes: (I), A4 - URT irr
- DNEL Exposure Limit Values
disodium tetraborate decahydrate; borax decahydrate - CAS: 1303-96-4
Worker Industry: 22.3 03 - Consumer: 22.3 03 - Exposure: Human Inhalation - Frequency: Short Term (acute)
Worker Industry: 12.8 03 - Consumer: 6.5 03 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Industry: 42478 19141.05 - Consumer: 1.5 19141.05 - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 1.5 19141.05 - Exposure: Human Oral - Frequency: Short Term, systemic effects
Consumer: 1.5 19141.05 - Exposure: Human Oral - Frequency: Long Term, systemic effects



PNEC Exposure Limit Values

disodium tetraborate decahydrate; borax decahydrate - CAS: 1303-96-4

Target: Marine water - Value: 1.35 mg/l

Target: Fresh Water - Value: 1.35 mg/l

Target: Marine water sediments - Value: 1.8 mg/kg

Target: Soil (agricultural) - Value: 5.4 mg/kg

8.2. Exposure controls

Eye protection:

Eye glasses.

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Not needed for normal use.

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:
Appearance:	Aerosol delivered in the form of fine aerosol. Liquid (non-aerosol): opaque liquid.	--	--
Colour:	White	--	--
Odour:	Characteristic	--	--
Odour threshold:	N.D.	--	smell distinctly perceptible under normal use conditions.
pH:	9.4	--	--
Melting point / freezing point:	Not Relevant	--	--
Initial boiling point and boiling range:	Not applicable	--	--
Flash point:	Not applicable	--	aerosol



Evaporation rate:	Not applicable	--	--
Solid/gas flammability:	Not applicable	--	aerosol product
Upper/lower flammability or explosive limits:	Not applicable	--	aerosol product
Vapour pressure:	~ 440kPa @20°C bar / 20°C	--	--
Vapour density:	ND	--	it contains flammable gas heavier than air
Relative density:	0.9 kg/l	--	--
Solubility in water:	Partial	--	--
Solubility in oil:	Partial	--	--
Partition coefficient (n-octanol/water):	Not applicable	--	mixture of many different substances
Auto-ignition temperature:	Not applicable	--	--
Decomposition temperature:	Not applicable	--	--
Viscosity:	Not applicable	--	--
Explosive properties:	Not applicable	--	--
Oxidizing properties:	Not applicable	--	--

9.2. Other information

Properties	Value	Method:	Notes:
Miscibility:	Not Relevant	--	--
Fat Solubility:	Not Relevant	--	--
Conductivity:	Not Relevant	--	--
Substance Groups relevant properties	Not Relevant	--	--

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
Keep in a ventilated area, away from heat, moisture.
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
None in particular.
- 10.6. Hazardous decomposition products
None.

SECTION 11: Toxicological information

- 11.1. Information on toxicological effects
Toxicological information of the product:
Not applicable
- Toxicological information of the main substances found in the product:
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]; and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) - CAS: 55965-84-9
- a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat 2230 mg/kg
Test: LD50 - Route: Skin - Species: Rat > 4700 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat 5.6 mg/l
- If not differently specified, the information required in Regulation (EU)2015/830 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.

SECTION 12: Ecological information

- 12.1. Toxicity
Adopt good working practices, so that the product is not released into the environment.
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]; and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) - CAS: 55965-84-9
- a) Aquatic acute toxicity:
Endpoint: 9 - Species: Algae 0.379 mg/l - Duration h: 72
Endpoint: EC50 - Species: Daphnia 1.02 mg/l - Duration h: 48
Endpoint: LC50 - Species: Fish 0.58 mg/l - Duration h: 96
- b) Aquatic chronic toxicity:
Endpoint: NOEC - Species: Algae 0.01 mg/l - Duration h: 72
- 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
vPvB Substances: None - PBT Substances: None
- 12.6. Other adverse effects
None

SECTION 13: Disposal considerations

- 13.1. Waste treatment methods
Recover if possible. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information

- 14.1. UN number
 - ADR/RID-UN number: 1950
 - IATA-Un number: 1950
 - IMDG-Un number: 1950
- 14.2. UN proper shipping name
 - ADR-Shipping Name: AEROSOL, ASPHYXIANT
 - IATA-Technical name: AEROSOL, NON FLAMMABLE
 - IMDG-Technical name: AEROSOL
- 14.3. Transport hazard class(es)
 - ADR/RID-Class: 2
 - ADR-Label: 2.2
 - IATA-Class: 2
 - IATA-Label: non flammable gas
 - IMDG-Class: 2
- 14.4. Packing group
- 14.5. Environmental hazards
 - Marine pollutant: No
- 14.6. Special precautions for user
 - ADR-Tunnel Restriction Code: (E)
 - IMDG-Technical name: AEROSOL
 - IMDG-EMS: F-D, S-U
- 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
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) 2015/830
 - 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)
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 28

Restriction 29

Restriction 30

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):

disodium tetraborate decahydrate; borax decahydrate

Toxic to reproduction

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:

H360 May damage fertility or the unborn child.

H319 Causes serious eye irritation.

H280 Contains gas under pressure; may explode if heated.

H220 Extremely flammable gas.

H360FD May damage fertility. May damage the unborn child.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H301 Toxic if swallowed.

H310 Fatal in contact with skin.

H330 Fatal if inhaled.

EUH071 Corrosive to the respiratory tract.

H318 Causes serious eye damage.

H315 Causes skin irritation.

Hazard class and hazard category	Code	Description
Flam. Gas 1	2.2/1	Flammable gas, Category 1
Aerosols 3	2.3/3	Aerosol, Category 3
Press. Gas	2.5	Gases under pressure
Acute Tox. 2	3.1/2/Dermal	Acute toxicity (dermal), Category 2



Acute Tox. 2	3.1/2/Inhal	Acute toxicity (inhalation), Category 2
Acute Tox. 3	3.1/3/Oral	Acute toxicity (oral), Category 3
Skin Corr. 1B	3.2/1B	Skin corrosion, Category 1B
Skin Corr. 1C	3.2/1C	Skin corrosion, Category 1C
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Skin Sens. 1A	3.4.2/1A	Skin Sensitisation, Category 1A
Repr. 1B	3.7/1B	Reproductive toxicity, Category 1B
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1

Paragraphs modified from the previous revision:

SECTION 3: Composition/information on ingredients

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 3, H229	On basis of test data

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).

MERITO - SPRAY
SAFETY DATA SHEET (Regulation (EU) 2015/830)



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
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.