

Safety Data Sheet BUMPER SPRAY

Safety Data Sheet dated 19/5/2015, version 2

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

1.1. Product identifier

Mixture identification:

Trade name: BUMPER SPRAY

Trade code: 2002

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

Recommended use:

Special varnish for plastic

Uses advised against:

Not suitable for use in homemaker (DIY) applications.

1.3. Details of the supplier of the safety data sheet

Supplier:

IMPA Spa - Via Crevada 9/E - 31020 SAN PIETRO DI FELETTO (TV) - ITALY

Competent person responsible for the safety data sheet:

msdsref@impa.it

1.4. Emergency telephone number

IMPA Spa - Phone ++39-0438-4548 - Fax ++39-0438-454915 (8.30 - 17.30)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Directive criteria, 67/548/EEC, 1999/45/EC and following amendments thereof:

Properties / Symbols:


 F+ Extremely flammable


R Phrases:

R12 Extremely flammable.


R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

EC regulation criteria 1272/2008 (CLP):

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

 Warning, Skin Irrit. 2, Causes skin irritation.

 Warning, Eye Irrit. 2, Causes serious eye irritation.

 Warning, STOT RE 2, May cause damage to organs through prolonged or repeated exposure.

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

2.2. Label elements

Symbols:



Danger

Hazard statements:

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

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

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.

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P251 Do not pierce or burn, even after use.
P260 Do not breathe fume/gas/mist/vapours/spray.
P280 Wear protective gloves/clothing and eye/face protection.
P314 Get medical advice/attention if you feel unwell.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Special Provisions:

None

Contains:

Aromatic hydrocarbons, C8

2.3. Other hazards

No other known hazard

vPvB Substances: None - PBT Substances: None

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of EEC directive 67/548 and CLP regulation and related classification:

>= 30% - < 40% dimethyl ether

REACH No.: 01-2119472128-37, Index number: 603-019-00-8, CAS: 115-10-6, EC: 204-065-8
F+; R12; substance with a Community workplace exposure limit

⚠ 2.2/1 Flam. Gas 1 H220

⚠ 2.5 Press. Gas H280

>= 10% - < 12.5% Aromatic hydrocarbons, C8

REACH No.: 01-2119486136-34, CAS: 90989-38-1, EC: 292-694-9

Xn, Xi; R10-20/21-65-48/20-36/37/38

⚠ 2.6/3 Flam. Liq. 3 H226

⚠ 3.1/4/Dermal Acute Tox. 4 H312

⚠ 3.1/4/Inhal Acute Tox. 4 H332

⚠ 3.10/1 Asp. Tox. 1 H304

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.3/2 Eye Irrit. 2 H319

⚠ 3.8/3 STOT SE 3 H335

⚠ 3.9/2 STOT RE 2 H373

DECLJ*

>= 7% - < 10% isobutyl acetate

REACH No.: 01-2119488971-22, Index number: 607-026-00-7, CAS: 110-19-0, EC: 203-745-1
F; R11-66

⚠ 2.6/2 Flam. Liq. 2 H225

⚠ 3.8/3 STOT SE 3 H336

EUH066

>= 7% - < 10% Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

REACH No.: 01-2119475515-33, EC: 927-510-4

F, Xn, Xi, N; R11-38-65-67-51/53

⚠ 2.6/2 Flam. Liq. 2 H225

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.10/1 Asp. Tox. 1 H304

⚠ 3.8/3 STOT SE 3 H336

⚠ 4.1/C2 Aquatic Chronic 2 H411

DECLP*

>= 1% - < 3% acetone

REACH No.: 01-2119471330-49, Index number: 606-001-00-8, CAS: 67-64-1, EC: 200-662-2

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F,Xi; R11-36-66-67
⚠ 2.6/2 Flam. Liq. 2 H225
⚠ 3.3/2 Eye Irrit. 2 H319
⚠ 3.8/3 STOT SE 3 H336
EUH066

>= 1% - < 3% ethyl acetate

REACH No.: 01-2119475103-46, Index number: 607-022-00-5, CAS: 141-78-6, EC: 205-500-4
F,Xi; R11-36-66-67
⚠ 2.6/2 Flam. Liq. 2 H225
⚠ 3.3/2 Eye Irrit. 2 H319
⚠ 3.8/3 STOT SE 3 H336
EUH066

>= 0.5% - < 1% Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

REACH No.: 01-2119458049-33, EC: 919-446-0
Xn,N; R10-66-67-65-51/53
⚠ 2.6/3 Flam. Liq. 3 H226
⚠ 3.10/1 Asp. Tox. 1 H304
⚠ 3.8/3 STOT SE 3 H336
⚠ 4.1/C2 Aquatic Chronic 2 H411
EUH066
DECLP*

>= 0.5% - < 1% 2-methoxy-1-methylethyl acetate

REACH No.: 01-2119475791-29, Index number: 607-195-00-7, CAS: 108-65-6, EC: 203-603-9
R10; substance with a Community workplace exposure limit
⚠ 2.6/3 Flam. Liq. 3 H226

>= 0.1% - < 0.5% Hydrocarbons, C9, aromatics

REACH No.: 01-2119455851-35, EC: 918-668-5
Xn,Xi,N; R10-37-51/53-65-66-67
⚠ 2.6/3 Flam. Liq. 3 H226
⚠ 3.10/1 Asp. Tox. 1 H304
⚠ 3.8/3 STOT SE 3 H335
⚠ 3.8/3 STOT SE 3 H336
⚠ 4.1/C2 Aquatic Chronic 2 H411
EUH066
DECLP*

< 0.1% methanol

REACH No.: 01-2119433307-44, Index number: 603-001-00-X, CAS: 67-56-1, EC: 200-659-6
F,T; R11-23/24/25-39/23/24/25
⚠ 2.6/2 Flam. Liq. 2 H225
⚠ 3.8/1 STOT SE 1 H370
⚠ 3.1/3/Oral Acute Tox. 3 H301
⚠ 3.1/3/Dermal Acute Tox. 3 H311
⚠ 3.1/3/Inhal Acute Tox. 3 H331

< 0.1% phenol

REACH No.: 01-2119471329-32, Index number: 604-001-00-2, CAS: 108-95-2, EC: 203-632-7
Muta. Cat. 3,T,Xn,C; R23/24/25-34-48/20/21/22-68
⚠ 3.5/2 Muta. 2 H341
⚠ 3.9/2 STOT RE 2 H373
⚠ 3.2/1B Skin Corr. 1B H314
⚠ 3.1/3/Oral Acute Tox. 3 H301
⚠ 3.1/3/Dermal Acute Tox. 3 H311
⚠ 3.1/3/Inhal Acute Tox. 3 H331

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*DECLJ: Substance classified accordingly to Note J of the Annex I of directive 67/548/EEC. The classification as a carcinogen need not apply if it can be shown that the substance contains less than 0.1% weight/weight of benzene

*DECLP: Substance classified accordingly to Note P of the Annex I of directive 67/548/EEC. The classification as a carcinogen need not apply if it can be shown that the substance contains less than 0.1% weight/weight of benzene

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:

Ventilate the premises. The patient is to be removed immediately from the premises contaminated and made to rest in a well ventilated area. Should the patient feel unwell, consult a physician.

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

None known

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

If you feel unwell, seek medical advice.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

CO₂, powder extinguisher, foam, water spray.

Extinguishing media which must not be used for safety reasons:

Water jet.

5.2. Special hazards arising from the substance or mixture

Burning produces heavy smoke.

Do not inhale explosion and/or combustion gases (carbon monoxide, carbon dioxide, oxides of nitrogen).

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

Remove all sources of ignition.

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.

6.3. Methods and material for containment and cleaning up

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Suitable material for collection: inert absorbent material (e.g. sand, vermiculite)

After the product has been recovered, rinse the area and materials involved.

- 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

Always keep in a well ventilated place.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Avoid accumulating electrostatic charge.

Keep away from food, drink and feed.

Possible gas microleaks will go down and, if mixed with air and in presence of primers, may become deflagrating.

See chapter 10.5

Instructions as regards storage premises:

Keep container tightly closed in a cool, well-ventilated place, away from heat.

7.3. Specific end use(s)

See chapter 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

dimethyl ether - CAS: 115-10-6

EU - LTE(8h): 1920 mg/m³, 1000 ppm - Notes: Bold-type: Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)

WEL -- Country: UNITED KINGDOM - LTE: 766 mg/m³, 400 ppm - STE: 958 mg/m³, 500 ppm

Aromatic hydrocarbons, C8 - CAS: 90989-38-1

ACGIH - LTE: 434 mg/m³, 100 ppm - STE: 651 mg/m³, 150 ppm

isobutyl acetate - CAS: 110-19-0

ACGIH, 150 ppm - Notes: Eye and URT irr

WEL -- Country: UNITED KINGDOM - LTE: 724 mg/m³, 150 ppm - STE: 903 mg/m³, 187 ppm

acetone - CAS: 67-64-1

WEL -- Country: UNITED KINGDOM - LTE: 1210 mg/m³, 500 ppm - STE: 3620 mg/m³, 1500 ppm

EU - LTE(8h): 1210 mg/m³, 500 ppm - Notes: Bold-type: Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)

ACGIH, 500 ppm, 750 ppm - Notes: (A4), BEI - (URT and eye irr, CNS impair, hematologic eff)

ethyl acetate - CAS: 141-78-6

ACGIH, 400 ppm - Notes: URT and eye irr

WEL -- Country: UNITED KINGDOM - LTE: 730 mg/m³, 200 ppm - STE: 1460 mg/m³, 400 ppm

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

ACGIH - LTE: 300 mg/m³, 52 ppm

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

EU - LTE(8h): 275 mg/m³, 50 ppm - STE: 550 mg/m³, 100 ppm - Notes: Indicative

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Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)

WEL -- Country: UNITED KINGDOM - LTE: 274 mg/m³, 50 ppm - STE: 548 mg/m³, 100 ppm

Hydrocarbons, C₉, aromatics

ACGIH - LTE: 100 mg/m³

methanol - CAS: 67-56-1

WEL -- Country: UNITED KINGDOM - LTE: 266 mg/m³, 200 ppm - STE: 333 mg/m³, 250 ppm

EU - LTE(8h): 260 mg/m³, 200 ppm - Notes: Bold-type: Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)

ACGIH, 200 ppm, 250 ppm - Notes: Skin BEI - Headache, eye dam, dizziness, nausea

phenol - CAS: 108-95-2

EU - LTE(8h): 8 mg/m³, 2 ppm - STE: 16 mg/m³, 4 ppm - Notes: 15 minutes average value (for references see bibliography)

ACGIH, 5 ppm - Notes: Skin, A₄, BEI - URT irr, lung dam, CNS impair

DNEL Exposure Limit Values

Aromatic hydrocarbons, C₈ - CAS: 90989-38-1

Worker Professional: 0.077 mg/l - Consumer: 0.0148 mg/l - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 180 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 1.6 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Hydrocarbons, C₉, aromatics

Worker Professional: 25 mg/l - Consumer: 11 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 0.150 mg/l - Consumer: 0.032 mg/l - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 11 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

Aromatic hydrocarbons, C₈ - CAS: 90989-38-1

Target: Marine water - Value: 0.327 mg/l

Target: Fresh Water - Value: 0.327 mg/l

Target: Marine water sediments - Value: 12.46 mg/kg

Target: Fresh Water - Value: 12.46 mg/kg

Target: Soil (agricultural) - Value: 2.31 mg/kg

8.2. Exposure controls

Eye protection:

Eye glasses.

Skin protection:

Coat.

Hands protection:

Suitable material:

NBR (nitrile rubber).

FKM (fluoro rubber).

The selection of suitable gloves does not only depend on the material, but also on other quality characteristics and varies from manufacturer to another one, and on the manner and times of use of the mixture.

Respiratory protection:

Combination filtering device (DIN EN 141).

Environmental exposure controls:

See chapter 6.2

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance and colour: under pressure colored liquid

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Odour:	of solvent
Odour threshold:	nd
pH:	nd
Melting point / freezing point:	nd
Initial boiling point and boiling range:	< 35 °C
Solid/gas flammability:	nd
Upper/lower flammability or explosive limits:	nd
Vapour density:	nd
Flash point:	< -1 °C
Evaporation rate:	nd
Vapour pressure:	nd
Relative density:	0.89 ± 0.01
Solubility in water:	not soluble
Solubility in oil:	nd
Partition coefficient (n-octanol/water):	nd
Auto-ignition temperature:	nd
Decomposition temperature:	nd
Viscosity:	nd
Explosive properties:	none
Oxidizing properties:	none
9.2. Other information	
Miscibility:	nd
Conductivity:	nd

Legend:

na = not applicable - nd = not available

SECTION 10: Stability and reactivity

- 10.1. Reactivity
Stable under normal conditions
- 10.2. Chemical stability
Stable under normal conditions
- 10.3. Possibility of hazardous reactions
Because of heat or fire the preparation can release carbon oxides and vapours which may be harmful to health.
- 10.4. Conditions to avoid
Avoid to keep near heat sources.
- 10.5. Incompatible materials
Avoid contact with oxidizing materials or powerful oxidising agents. The product could catch fire.
See chapter 10.3
- 10.6. Hazardous decomposition products
No hazardous decomposition products when stored and handled correctly.
See chapter 5.2

SECTION 11: Toxicological information

- 11.1. Information on toxicological effects
Toxicological information of the main substances found in the mixture:
Aromatic hydrocarbons, C8 - CAS: 90989-38-1
 - a) acute toxicity:
Test: LC50 - Route: Inhalation Vapour - Species: Rat 27124 mg/m³ - Duration: 4h
Test: LD50 - Route: Oral - Species: Rat 3223 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit 12126 mg/kgHydrocarbons, C7, n-alkanes, isoalkanes, cyclics
 - a) acute toxicity:
Test: LC50 - Route: Inhalation Vapour - Species: Rat > 23.3 mg/l - Duration: 4hacetone - CAS: 67-64-1
 - a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat 5800 mg/kg

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ethyl acetate - CAS: 141-78-6

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rabbit 5620 mg/kg

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 4 ml/kg

Test: LC50 - Route: Inhalation Vapour - Species: Rat > 13.1 mg/l - Duration: 4h

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 8530 mg/kg

Test: LD50 - Route: Skin - Species: Rat > 5000 mg/kg

Hydrocarbons, C9, aromatics

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 3592 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 3160 mg/kg

Test: LC50 - Route: Inhalation Vapour - Species: Rat > 6193 mg/m³ - Duration: 4h

methanol - CAS: 67-56-1

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 5630 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit 15800 mg/kg

Test: LC50 - Route: Inhalation Vapour - Species: Rat 83.9 mg/l - Duration: 4h

phenol - CAS: 108-95-2

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 317 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit 630 mg/kg

If not differently specified, the information required in Regulation 453/2010/EC 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

Adopt sound working practices, so that the product is not released into the environment.

The product does not contain substances which can be harmful to the ozone.

12.1. Toxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Aromatic hydrocarbons, C8 - CAS: 90989-38-1

a) Aquatic acute toxicity:

Endpoint: IC50 - Species: Algae 2.2 mg/l - Duration h: 72

Endpoint: EC50 - Species: Daphnia 1.0 mg/l - Duration h: 24

Endpoint: LC50 - Species: Fish 2.6 mg/l - Duration h: 96

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia 3 mg/l - Duration h: 48

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 50 mg/l - Duration h: 96

Endpoint: IC50 - Species: Algae 4.6 mg/l - Duration h: 72

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- Endpoint: EC50 - Species: Daphnia 10 mg/l - Duration h: 48
Hydrocarbons, C9, aromatics
a) Aquatic acute toxicity:
Endpoint: EC50 - Species: Daphnia 3.2 mg/l - Duration h: 48
Endpoint: IC50 - Species: Algae 2.9 mg/l - Duration h: 72
Endpoint: LC50 - Species: Fish 9.2 mg/l - Duration h: 96
- 12.2. Persistence and degradability
N.A.
- 12.3. Bioaccumulative potential
N.A.
- 12.4. Mobility in soil
N.A.
- 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. 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
ADR-UN Number: 1950
IATA-UN Number: 1950
IMDG-UN Number: 1950
- 14.2. UN proper shipping name
ADR-Shipping Name: AEROSOLS, flammable
IATA-Shipping Name: AEROSOLS, flammable
IMDG-Shipping Name: AEROSOLS, flammable
- 14.3. Transport hazard class(es)
ADR-Class: 2
ADR-Label: 2.1
ADR - Hazard identification number: -
IATA-Class: 2
IATA-Label: -
IMDG-Class: 2
- 14.4. Packing group
ADR-Packing Group: -
IATA-Packing group: -
IMDG-Packing group: -
- 14.5. Environmental hazards
ADR-Environmental Pollutant: No
IMDG-Marine pollutant: No
- 14.6. Special precautions for user
ADR-Subsidiary risks: See SP63
ADR-S.P.: 190 327 344 625
ADR-Tunnel Restriction Code: (D)
IATA-Passenger Aircraft: -
IATA-Subsidiary risks: See SP63
IATA-Cargo Aircraft: -
IATA-S.P.: -
IATA-ERG: -

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IMDG-EmS:	F-D , S-U
IMDG-Subsidiary risks:	See SP63
IMDG-Storage category:	-
IMDG-Storage notes:	Protected from sources of heat. For AEROSOLS with a maximum capacity of 1 litre: Category A. Segregation as for class 9 but "separated from" class 1 except division 1.4. For AEROSOLS with a capacity above 1 litre: Category B. Segregation as for the appropriate sub-division of class 2. For WASTE AEROSOLS: Category C. Clear of living quarters. Segregation as for the appropriate sub-division of class 2.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
N.A.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Dir. 67/548/EEC (Classification, packaging and labelling of dangerous substances)
Dir. 1999/45/EC (Classification, packaging and labelling of dangerous preparations)
Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Dir. 2006/8/EC
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. 453/2010 (Annex I)
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)

Volatile Organic compounds - VOCs = 68.50 %

Volatile CMR substances = 0.01 %

Halogenated VOCs which are assigned the risk phrase R40 = 0.00 %

Where applicable, refer to the following Italian regulatory provisions :

Directive 82/501/EEC ('Activities linked to risks of serious accidents') and subsequent amendments.
1999/13/EC (VOC directive)

15.2. Chemical safety assessment
No

SECTION 16: Other information

Text of phrases referred to under heading 3:

R10 Flammable.
R11 Highly flammable.
R12 Extremely flammable.
R20/21 Harmful by inhalation and in contact with skin.
R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
R34 Causes burns.
R36 Irritating to eyes.
R36/37/38 Irritating to eyes, respiratory system and skin.
R37 Irritating to respiratory system.
R38 Irritating to skin.
R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

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R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R48/20/21/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 Harmful: may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.
R68 Possible risk of irreversible effects.

H220 Extremely flammable gas.
H280 Contains gas under pressure; may explode if heated.
H226 Flammable liquid and vapour.
H312 Harmful in contact with skin.
H332 Harmful if inhaled.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H225 Highly flammable liquid and vapour.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.
H370 Causes damage to organs.
H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H331 Toxic if inhaled.
H341 Suspected of causing genetic defects.
H314 Causes severe skin burns and eye damage.

Paragraphs modified from the previous revision:

SECTION 2: Hazards identification
SECTION 8: Exposure controls/personal protection
SECTION 9: Physical and chemical properties
SECTION 11: Toxicological information
SECTION 12: Ecological information
SECTION 14: Transport information
SECTION 15: Regulatory information

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,
Commission of the European Communities
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van
Nostrand Reinold
CCNL - Appendix 1 "TLV for 1989-90"

Safety data sheets of raw materials suppliers.

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 MSDS cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of
Dangerous Goods by Road.
CAS: Chemical Abstracts Service (division of the American Chemical
Society).

Safety Data Sheet

BUMPER SPRAY

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.
LTE:	Long-term exposure.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STE:	Short-term exposure.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWATLV:	Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
WGK:	German Water Hazard Class.
N.A.	Not Applicable / Not Available