



# SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

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

### 1.1 Product identifier:

**Product name:** 4 X SPRAY 200 ML

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

**Identified uses:** Mould releasing agent.

**Uses advised against:** None known.

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

#### Manufacturer:

BLUESTAR SILICONI ITALIA SRL  
via Archimede, 602  
I-21042 Caronno Pertusella

**Telephone:** +39 (02) 964 141

**Fax:** +39 (02) 96450209

**E-mail:** fds.sil@bluestarsilicones.com

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**1.4 Emergency telephone number:** + 33 (0) 4 72 73 74 04

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture:

The product has been classified according to the legislation in force.

#### Classification according to Regulation (EC) No 1272/2008 as amended.:

##### Physical Hazards:

Flammable aerosol	Category 1	Extremely flammable aerosol. Pressurized container: May burst if heated.
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##### Health Hazards:

Skin irritation	Category 2	Causes skin irritation.
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##### Environmental Hazards:

Chronic hazards to the aquatic environment	Category 3	Harmful to aquatic life with long lasting effects.
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<b>Hazard summary:</b>	
<b>Physical Hazards:</b>	Extremely flammable aerosol. Contains gas under pressure; may explode if heated.
<b>Health Hazards:</b>	
<b>Inhalation:</b>	No specific symptoms noted.
<b>Eye contact:</b>	No specific symptoms noted.
<b>Skin Contact:</b>	Causes skin irritation.
<b>Ingestion:</b>	No specific symptoms noted.
<b>Other Health Effects:</b>	No data available.
<b>Environmental hazards:</b>	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**2.2 Label Elements:**

<b>Signal Words:</b>	Danger
<b>Hazard Statement(s):</b>	Extremely flammable aerosol. Pressurized container: May burst if heated. Causes skin irritation. Harmful to aquatic life with long lasting effects.
<b>Precautionary Statement:</b>	
<b>Prevention:</b>	Keep away from heat/sparks/open flames/hot surfaces. No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.
<b>Storage:</b>	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
<b>Disposal:</b>	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**2.3 Other hazards:** No data available.

<b>SECTION 3: Composition/information on ingredients</b>
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**3.2 Mixtures:**

**General information:** Mixture of additives.

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	Notes
butane	<33%	106-97-8	203-448-7		#
isobutane	<20%	75-28-5	200-857-2		#
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	<14%		927-510-4		
Hexanoic acid, 2-ethyl-, zinc	<1,0%	85203-81-2			

salt, basic					
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\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#: This substance has workplace exposure limit(s).

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

### Classification:

Chemical name	Classification		Notes
butane	DSD:	F+; R12	
	CLP:	Press. Gas ;H280, Flam. Gas 1;H220	Note C
isobutane	DSD:	F+; R12	
	CLP:	Press. Gas Liq. Gas;H280, Flam. Gas 1;H220	Note C, Note U
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	DSD:	F; R11 Xn; R65 R67 Xi; R38 N; R51/53	
	CLP:	Flam. Liq. 2;H225, Skin Irrit. 2;H315, Asp. Tox. 1;H304, STOT SE 3;H336, Aquatic Chronic 2;H411	
Hexanoic acid, 2-ethyl-, zinc salt, basic	DSD:	Xi; R36/38 Repr. 3; R63 R52/53	
	CLP:	Eye Irrit. 2;H319, Repr. 2;H361d, Aquatic Chronic 3;H412	

DSD: Directive 67/548/EEC.

CLP: Regulation No. 1272/2008.:

The full text for all R-phrases and H-statements is displayed in section 16.

## SECTION 4: First aid measures

**General:** Get medical attention if symptoms occur. Contaminated clothing to be placed in closed container until disposal or decontamination.

### 4.1 Description of first aid measures:

**Inhalation:** Move into fresh air and keep at rest.

**Eye contact:** In the event of contact with the eyes, rinse thoroughly with clean water. Continue to rinse for at least 15 minutes.

**Skin Contact:** Remove contaminated clothing and shoes. Wash with soap and water.

**Ingestion:** Do not induce vomiting. Rinse mouth thoroughly.

**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:

**Hazards:** No specific recommendations.

**Treatment:** No specific recommendations.

## SECTION 5: Firefighting measures

**General Fire Hazards:** No specific recommendations.

<b>5.1 Extinguishing media:</b>	
<b>Suitable extinguishing media:</b>	Extinguish with foam, carbon dioxide or dry powder.
<b>Unsuitable extinguishing media:</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>5.2 Special hazards arising from the substance or mixture:</b>	Highly flammable. Containers or vessels exposed to sustained heat, such as in a fire situation, may have a sudden boil-over/explosion resulting from vaporization of water in the bottom of the vessel, known as a BLEVE (Boiling Liquid Expanding Vapor Explosion).
<b>5.3 Advice for firefighters:</b>	
<b>Special fire fighting procedures:</b>	Water spray should be used to cool containers.
<b>Special protective equipment for fire-fighters:</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

## SECTION 6: Accidental release measures

<b>6.1 Personal precautions, protective equipment and emergency procedures:</b>	Do not breathe vapor. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Use personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment.
<b>6.2 Environmental Precautions:</b>	Collect spillage. Do not discharge into drains, water courses or onto the ground.
<b>6.3 Methods and material for containment and cleaning up:</b>	Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Container must be kept tightly closed. Use explosion-proof electrical/ventilating/lighting/equipment. Absorb with sand or other inert absorbent. To clean the floor and all objects contaminated by this material, use an appropriate solvent.(cf. : § 9) Flush area with plenty of water. Incinerate in suitable combustion chamber.
<b>Notification Procedures:</b>	Caution: Contaminated surfaces may be slippery. For waste disposal, see section 13 of the SDS.

## SECTION 7: Handling and storage:

<b>7.1 Precautions for safe handling:</b>	Adequate ventilation should be provided so that exposure limits are not exceeded. Avoid forming spray/aerosol mists. Ground container and transfer equipment to eliminate static electric sparks. Open container carefully and only in a dry, oxygen-free or inert atmosphere. Use explosion-proof electrical/ventilating/lighting/equipment.
<b>7.2 Conditions for safe storage, including any incompatibilities:</b>	Avoid discharge into drains, water courses or onto the ground. Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures. Nitrogen blanketing of containers is required. Avoid contact with oxidizing agents. Suitable containers: Steel drums coated with epoxy-resin.
<b>7.3 Specific end use(s):</b>	No data available.

**SECTION 8: Exposure controls/personal protection****8.1 Control Parameters:****Occupational Exposure Limits:**

Chemical name	type	Exposure Limit Values	Source
butane	TWA	1 000 ppm	Italy. Occupational Exposure Limits (2009)
isobutane	TWA	1 000 ppm	Italy. Occupational Exposure Limits (2009)

**8.2 Exposure controls:****Appropriate engineering controls:**

Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors. Use engineering controls to reduce air contamination to permissible exposure level. Get medical advice/attention.

**Individual protection measures, such as personal protective equipment:****General information:**

Provide sufficient ventilation during operations which cause vapor formation.

**Eye/face protection:**

Safety Glasses

**Skin protection:****Hand Protection:**

Rubber gloves are recommended.

**Other:**

It is a good industrial hygiene practice to minimize skin contact. Wear appropriate clothing to prevent any possibility of skin contact.

**Respiratory Protection:**

If ventilation is insufficient, suitable respiratory protection must be provided.

**Hygiene measures:**

Provide eyewash station and safety shower.

**Environmental Controls:**

No data available.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties:****Appearance:****Physical state:**

Gas

**Form:**

Gases under pressure

**Color:**

No data available.

**Odor:**

Ethereal.

**Odor Threshold:**

No data available.

**pH:**

not applicable

**Melting Point:**

No data available.

**Boiling Point:**

No data available.

**Flash Point:**

< 0 °C Compressed liquefied gas.

**Evaporation Rate:**

No data available.

**Flammability (solid, gas):**

No data available.

**Flammability Limit - Upper (%)-:**

9,5 %(V) Butane.

8,5 %(V) Propane.

7 %(V) Isohexanes.

<b>Flammability Limit - Lower (%)--:</b>	2,3 %(V) Butane. 1,5 %(V) Propane. 0,7 %(V) Isohexanes.
<b>Vapor pressure:</b>	2 500 hPa (20 °C) 5 000 hPa (50 °C)
<b>Vapor density (air=1):</b>	No data available.
<b>Relative density:</b>	0,6 (20 °C)
<b>Solubility(ies):</b>	
<b>Solubility in Water:</b>	Slightly Soluble
<b>Solubility (other):</b>	Common organic solvents.: Miscible (in all proportions).
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Autoignition Temperature:</b>	470 °C Propane.365 °C Butane.> 200 °C Isohexanes.
<b>Decomposition Temperature:</b>	No data available.
<b>Viscosity:</b>	No data available.
<b>Explosive properties:</b>	No data available.
<b>Oxidizing properties:</b>	According to the data on the components Not considered as oxidizing. (evaluation by structure-activity relationship)

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity:</b>	Not relevant.
<b>10.2 Chemical Stability:</b>	Stable
<b>10.3 Possibility of Hazardous Reactions:</b>	No data available.
<b>10.4 Conditions to Avoid:</b>	No other information noted.
<b>10.5 Incompatible Materials:</b>	Strong oxidizing agents. Flammable material.
<b>10.6 Hazardous Decomposition Products:</b>	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. Amorphous silica.

## SECTION 11: Toxicological information

### Information on likely routes of exposure

<b>Inhalation:</b>	No data available.
<b>Ingestion:</b>	No data available.
<b>Skin Contact:</b>	No data available.
<b>Eye contact:</b>	No data available.

### 11.1 Information on toxicological effects:

#### Acute toxicity:

<b>Oral:</b>	
<b>Product:</b>	No data available.

<b>Dermal:</b>	
<b>Product:</b>	No data available.

**Inhalation:**  
**Product:** Composition/information on ingredients

**Specified substance(s):**  
butane LC 50 (Rat, 4 h): 658 mg/l  
isobutane LC 50 (Rat, 15 min): 570 000 mg/l  
LC 50 (Mouse, 1 h): 52 mg/l

**Repeated dose toxicity:**  
**Product:** No data available.

**Skin Corrosion/Irritation:**  
**Product:** Causes skin irritation.

**Serious Eye Damage/Eye Irritation:**  
**Product:** Composition/information on ingredients

**Specified substance(s):**  
butane  
Hexanoic acid, 2-ethyl-, zinc salt, basic

**Respiratory or Skin Sensitization:**  
**Product:** No data available.

**Germ Cell Mutagenicity:**  
**In vitro:**  
**Product:** No data available.

**In vivo:**  
**Product:** No data available.

**Carcinogenicity:**  
**Product:** No data available.

**Reproductive toxicity:**  
**Product:** Composition/information on ingredients

**Specified substance(s):**  
Hexanoic acid, 2-ethyl-, zinc salt, basic Possible risk of harm to the unborn child.

**Reproductive toxicity (Fertility):**  
**Product:** No data available.

**Developmental toxicity  
(Teratogenicity):****Product:** No data available.**Specific Target Organ Toxicity - Single Exposure:****Product:** No data available.**Specific Target Organ Toxicity - Repeated Exposure:****Product:** No data available.**Aspiration Hazard:****Product:** No data available.**Other Adverse Effects:****SECTION 12: Ecological information****12.1 Toxicity:****Acute toxicity:****Fish:****Product:** Composition/information on ingredients**Specified substance(s):**

Hexanoic acid, 2-ethyl-, zinc salt, basic LC 50 (Carp (Cyprinus carpio), 96 h): 100 mg/l

**Aquatic Invertebrates:****Product:** No data available.**Chronic Toxicity:****Fish:****Product:** No data available.**Aquatic Invertebrates:****Product:** No data available.**Toxicity to Aquatic Plants:****Product:** No data available.**12.2 Persistence and Degradability:****Biodegradation:****Product:** Composition/information on ingredients**Specified substance(s):**

Hexanoic acid, 2-ethyl-, zinc salt, basic The product is easily biodegradable.

**BOD/COD Ratio:****Product:** No data available.**12.3 Bioaccumulative Potential:**



**Product:** No data available.

**Specified substance(s):**  
Hexanoic acid, 2-ethyl-, zinc salt, basic      The product is not bioaccumulating.

**12.4 Mobility in Soil:** No data available.

**12.5 Results of PBT and vPvB assessment:** No data available.

**12.6 Other Adverse Effects:** No data available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods:

**General information:** The user's attention is drawn to the possible existence of local regulations regarding disposal.

**Disposal methods:** Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Incinerate.

Contaminated packages should be as empty as possible. Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Recycle following cleaning or dispose of at an authorised site.

## SECTION 14: Transport information

### ADR

- 14.1 UN Number: UN 1950
- 14.2 Proper Shipping Name: AEROSOLS, FLAMMABLE
- 14.3 Transport Hazard Class(es)
- Class: 2
- Label(s): 2.1
- Hazard No. (ADR): –
- Tunnel restriction code: (D)
- 14.4 Packing Group: –
- 14.5 Environmental hazards: not applicable
- 14.6 Special precautions for user: –

**IMDG**

14.1 UN Number:	UN 1950
14.2 Proper Shipping Name:	AEROSOLS, FLAMMABLE
14.3 Transport Hazard Class(es)	
Class:	2.1
Label(s):	2.1
EmS No.:	F-D, S-U
14.4 Packing Group:	–
14.5 Environmental hazards:	Marine pollutant
14.6 Special precautions for user:	–

**IATA**

14.1 UN Number:	UN 1950
14.2 Proper Shipping Name:	AEROSOLS, FLAMMABLE
14.3 Transport Hazard Class(es):	
Class:	2.1
Label(s):	2.1
14.4 Packing Group:	–
14.5 Environmental hazards:	not applicable
14.6 Special precautions for user:	–
Other information	
Passenger and cargo aircraft:	Allowed.
Cargo aircraft only:	Allowed.

**Other information:** No special precautions.

**14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** not applicable.

<b>SECTION 15: Regulatory information</b>
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**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.:**

**National Regulations:**

**15.2 Chemical safety assessment:** No data available.

**SECTION 16: Other information****Revision Information:** Not relevant.**Key abbreviations or acronyms used:**

Note C	Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
Note U	When put on the market gases have to be classified as 'Gases under pressure', in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case.

**Key literature references and sources for data:** No data available.**Wording of the R-phrases and H-statements in section 2 and 3:**

H220	Extremely flammable gas.
H225	Highly flammable liquid and vapor.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
R11	Highly flammable.
R12	Extremely flammable.
R36/38	Irritating to eyes and skin.
R38	Irritating to skin.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R63	Possible risk of harm to the unborn child.
R65	Harmful: may cause lung damage if swallowed.
R67	Vapours may cause drowsiness and dizziness.

**Training information:** No data available.**Inventory Status**

Australia AICS:	Not in compliance with the inventory.
Canada DSL Inventory List:	Not in compliance with the inventory.
EINECS, ELINCS or NLP:	On or in compliance with the inventory
Japan (ENCS) List:	Not in compliance with the inventory.
China Inv. Existing Chemical Substances:	Not in compliance with the inventory.
Korea Existing Chemicals Inv. (KECI):	Not in compliance with the inventory.
Philippines PICCS:	Not in compliance with the inventory.
US TSCA Inventory:	Not in compliance with the inventory.
New Zealand Inventory of Chemicals:	Not in compliance with the inventory.

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The information given is based on data available for the material, the components of the material, and similar materials. The information is believed to be correct. It is given in good faith. This information should be used to make an independent determination of the methods to safeguard workers and the environment.

