

SAFETY DATA SHEETS

This SDS packet was issued with item:

075893839

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

075893805 075893813 075893821 075893847 078579960

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 24.10.2008

Revision: 18.09.2008

1 Identification of the substance/preparation and of the company/undertaking

· **Product details**

· **Trade name:** Arti Spray blue, green, red and white

· **Article number:** BK 287, BK 288, BK 286, BK 285

· **Application of the substance / the preparation** Auxiliary for dental technology

· **Manufacturer/Supplier:**

Dr. Jean Bausch KG

Oskar Schindler Strasse 4

50769 Köln, Germany

Tel. ++49 (0)221 70936-0

Fax. ++49 (0)221 70936-66

· **Further information obtainable from:** Tel. ++49 (0)221 70936-0

· **Information in case of emergency:**

Tel. ++49 (0)30 19240

Fax. ++49 (0)30 32680721

Landesberatungsstelle für Vergiftungserscheinungen, Pulsstrasse 3-7, 14059 Berlin, Germany

2 Hazards identification

· **Hazard description:**



F+ Extremely flammable

· **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Warning! Pressurized container.

R 12 Extremely flammable.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Keep out of the reach of children

· **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

· **GHS label elements**



Danger

2.2/1 - Extremely flammable gas.

2.3/1 - Extremely flammable aerosol.

· **Prevention:**

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.

· **Response:**

Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

Eliminate all ignition sources if safe to do so.

· **Storage:**

Store in a well-ventilated place.

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

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3 Composition/information on ingredients

- **Chemical characterization**

- **Description:**

Mixture of substances listed below with nonhazardous additions.
Active substance with propellant

- **Dangerous components:**

CAS: 75-28-5	isobutane	 F+; R 12	90.0%
EINECS: 200-857-2		Danger:  2.2/1	
		Warning:  2.5/L	

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.

5 Fire-fighting measures

- **Suitable extinguishing agents:**
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:** No special measures required.
- **Measures for cleaning/collecting:** Ensure adequate ventilation.

7 Handling and storage

- **Handling:**
- **Information for safe handling:** Open and handle receptacle with care.
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool location.
Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep container tightly sealed.
Do not seal receptacle gas tight.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.

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8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Ingredients with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
- **Respiratory protection:** Not required.
- **Protection of hands:** Not required.
- **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **As protection from splashes gloves made of the following materials are suitable:** Natural rubber, NR
- **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

· General Information

Form: Aerosol
Colour: Different according to colouring
Odour: Characteristic

· Change in condition

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: -11°C

· **Flash point:** Not applicable, as aerosol.

· **Ignition temperature:** 460°C

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· Explosion limits:

Lower: 1.8 Vol %
Upper: 8.5 Vol %

· **Vapour pressure at 20°C:** 3000 hPa

· **Density at 20°C:** 0.6 g/cm³

· **Solubility in / Miscibility with water:** Not miscible or difficult to mix.

· Solvent content:

Organic solvents: 0.0 %

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Trade name: Arti Spray blue, green, red and white

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· Solids content: 1-5 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.

12 Ecological information

- **General notes:** Generally not hazardous for water

13 Disposal considerations

- **Product:**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue

16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 05 00	gases in pressure containers and discarded chemicals
16 05 04	gases in pressure containers (including halons) containing dangerous substances

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **Land transport ADR/RID (cross-border)**



- **ADR/RID class:** 2 5F Gases.
- **Danger code (Kemler):** -
- **UN-Number:** 1950
- **Packaging group:** -
- **Hazard label:** 2.1

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Trade name: Arti Spray blue, green, red and white

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· **Description of goods:** 1950 AEROSOLS· **Maritime transport IMDG:**

· **IMDG Class:** 2.1
 · **UN Number:** 1950
 · **Label** 2.1
 · **Packaging group:** -
 · **EMS Number:** F-D,S-U
 · **Marine pollutant:** No
 · **Proper shipping name:** AEROSOLS

· **Air transport ICAO-TI and IATA-DGR:**

· **ICAO/IATA Class:** 2.1
 · **UN/ID Number:** 1950
 · **Label** 2.1
 · **Packaging group:** -
 · **Proper shipping name:** AEROSOLS, flammable

· **UN "Model Regulation":** UN1950, AEROSOLS, 2.1

15 Regulatory information

· **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· **Code letter and hazard designation of product:**

F+ Extremely flammable

· **Risk phrases:**

12 Extremely flammable.

· **Safety phrases:**

9 Keep container in a well-ventilated place.

16 Keep away from sources of ignition - No smoking.

· **Special labelling of certain preparations:**

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Keep out of the reach of children

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant R-phrases**

12 Extremely flammable.

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· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Reglement internationale concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

GB

Sicherheitsdatenblatt

gemäß Verordnung (EG) Nr. 1907/2006 (REACH)



Trade name: Bausch Arti-Spray® blue, green, red and white
Product No.: BK 287, BK 288, BK 286, BK 285
Product group: Occlusion-Spray
Version: 002 / EN

Erstellungsdatum: 28.03.2017

SECTION 1: Identification of the Substance or Mixture and Company

1.1 Name of the product

Bausch Occlusion-Spray BK 285, BK 286, BK 287, BK 288

1.2 Recommended use

Universal color indicator to test the occlusal contacts and accurate fit of crowns and bridges.

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

1.2.1 Relevante identifizierte Verwendungen

No information available at present.

1.2.2 Uses advised against

No information available at present.

1.3 Details of the supplier of the safety data sheet

Dr. Jean Bausch GmbH & Co. KG, Oskar-Schindler-Str.4, 50769 Köln
Phone +49 (0)221-70936-0, Fax +49 (0)221-70936-66
info@bauschdental.de, <http://bauschdental.de>

E-mail address of the competent person: pb@bauschdental.de

Contact person for information: Peter Bausch (CEO)

National contact person: Peter Bausch (CEO)

1.4 Emergency phone

Peter Bausch (CEO) Phone +49 (0)221-70936-20, Mobil +49 (0)172-2601451

ABSCHNITT 2: Hazard(s) identification

2.1. Classification of Substance or Mixture

2.1.1 Classification according to Regulation (EG) Nr. 1272/2008 [CLP]

**Hazard Class and
Hazard Category**

Warnings



GHS02 flame

Flammable Aerosol

H222-H229

Extremely flammable aerosol.
Pressurized container: May burst if heated.

Sicherheitsdatenblatt

gemäß Verordnung (EG) Nr. 1907/2006 (REACH)



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Product group: Occlusion-Spray
Version: 002 / EN

Erstellungsdatum: 28.03.2017

2.1.2. Classification according to Directives 67/548/EWG and 1999/45/EG



F+; Extremely flammable

R12: Extremely flammable.

Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the „General Classification guideline for preparations of the EU“ in the latest valid version.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C.

Do not pierce or burn, even after use.

Keep out of the reach of children.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

2.2 Label elements

2.2.1 Labeling according to Regulation (EC) Nr. 1272/2008 [CLP]

The product is classified and labelled according to the CLP regulation.

Hazard pictograms:



GHS02

Signal word:

Danger

Hazard statements:

H222-H229 Extremely flammable aerosol. Pressurized container: May burst if heated.

Precautionary statements:

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

Additional information:

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.

2.3 Other hazards (Results of PBT and vPvB assessment)

PBT: Not applicable

vPvB: Not applicable

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gemäß Verordnung (EG) Nr. 1907/2006 (REACH)



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Version: 002 / EN

Erstellungsdatum: 28.03.2017

Section 3: Composition/information on ingredients

3.1 Substance

This product is a mixture.

3.2 Mixtures

3.2.1 Description/Chemical Characterization

Mixture of substances listed below with nonhazardous additions.

3.2.2 Dangerous components

CAS: 75-28-5	isobutane	F+ R12	50-100%
EINECS: 200-857-2		Flam. Gas 1, H220; Press. Gas, H280	

Additional information: For the wording of the listed risk phrases refer to section 16.

Section 4: First-aid measures

4.1 Description of the First-aid measures

4.1.1 General Information

Remove contaminated clothing immediately. Or seek the occurrence of ill health doctor.

4.1.2 After Inhalation

Supply fresh air; consult doctor in case of complaints.

4.1.3 After Skin contact

Generally the product does not irritate the skin.

4.1.4 After Eye contact

Remove contact lense(s) from eye(s). Rinse opened eye for several minutes under running water.
Consult doctor in case of complaints.

4.1.5 After Ingestion:

If symptoms persist consult doctor.

4.2 Information for doctor

4.2.1 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.2.2 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

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Product group: Occlusion-Spray
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Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: Water with full jet.

5.2 Special hazards arising from the substance or mixture

No further relevant information available.

5.3 Advice for firefighters

Protective equipment: No special measures required.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions

No special measures required.

6.3 Methods and material for containment and cleaning up

Ensure adequate ventilation.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Section 7: Handling and storage

7.1 Handling

Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Information about fire - and explosion protection

Do not spray onto a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities

Storage

Store in a cool location.

Observe official regulations on storing packagings with pressurized containers.

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Product group: Occlusion-Spray
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Information about storage in one common storage facility

Not required.

Further information about storage conditions

Keep container tightly sealed.

Do not seal receptacle gas tight.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

Specific end use(s) No further relevant information available.

Section 8: Limiting exposure controls / personal protection

8.1 Control Parameters

Ingredients with limit values that require monitoring at the workplace

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

8.2.1 Personal protective equipment

General protective and hygienic measures:

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation.

Protection of hands:

Not required.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

As protection from splashes gloves made of the following materials are suitable:

Natural rubber, NR

Butyl rubber, BR

Nitrile rubber, NBR

Eye protection:



Tightly sealed goggles

Sicherheitsdatenblatt

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 Product group: Occlusion-Spray
 Version: 002 / EN

Erstellungsdatum: 28.03.2017

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

9.1.1 Appearance	
Form	Aerosol.
Colour	Different according to colouring.
Odour	Pleasant.
Odour threshold	Not determined.
9.1.2. Security-related data base	Value
pH (20°C)	Not determined.
Melting point/Melting range	-159,4°C
Boiling point/Boiling range	-44°C
Flash point	Not applicable, as aerosol.
Flammability (solid, gaseous)	Not applicable.
Ignition temperature	460°C
Decomposition temperature	Not determined.
Self-igniting	Product is not selfigniting.
Danger of explosion	Not determined.
Explosion limits	
Lower	1,8 Vol % (Propan/Butan)
Upper	8,5 Vol % (Propan/Butan)
Vapour pressure (20°C):	3000hPa
Density (20°C)	0,6 g/cm³
Relative density	Not determined.
Vapour density (Luft=1)	Not determined.
Evaporation rate:	Not applicable.
Solubility in / Miscibility with water (20°C):	0,049 g/l
Partition coefficient (n-Octanol/Wasser)	Not determined.
Viscosity	
Dynamic	Not determined.
Kinematic	Not determined.
Solvent content	
Organic solvents	0,0%
VOC (EC)	98%
Solids content	< 5 %
Other information	No further relevant information available

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Section 10: Stability and Reactivity

10.1 Reactivity

There is no data available concerning the product.

10.2 Chemical Stability

There is no data available concerning the product.

10.3 Thermal decomposition / conditions to be avoided

No decomposition if used according to specifications.

10.4 Possibility of hazardous reactions

No dangerous reactions known.

10.5 Conditions to avoid

No further relevant information available.

10.6 Incompatible materials

No further relevant information available.

10.7 Hazardous decomposition products

No dangerous decomposition products known.

Section 11: Toxicological Information

Information on toxicological effects of the mixture

Acute toxicity

LD/LC50 values relevant for classification		
106-97-8 Butan		
Inhalative	LC50/4h	658 mg/l (rat)

Primary irritant effect:

on the skin: No irritant effect.

on the eye: No irritant effect.

Sensitization: No sensitizing effects known.

Subacute to chronic toxicity: Not determined.

Toxicokinetics, metabolism and distribution: Not determined.

Acute effects (acute toxicity, irritation and corrosivity): Not determined.

Repeated dose toxicity: Not determined.

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction): Not determined.

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Section 12: Ecological information

Toxicity

Aquatic Toxicity: No further relevant information available.

Persistence and degradability: No further relevant information available.

Behaviour in environmental systems -

Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

Ecotoxicological effects:

Remark: The product is high-volatile.

Additional ecological information -

General notes: Generally not hazardous for water.

Results of PBT and vPvB assessment -

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects: No further relevant information available.

Section 13: Information for Disposal

Waste treatment methods

Recommendation:

Must be specially treated adhering to official regulations.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue	
16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 05 00	gases in pressure containers and discarded chemicals
16 05 04	gases in pressure containers (including halons) containing dangerous substances

Uncleaned packaging:

Recommendation

Disposal must be made according to official regulations.

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Section 14: Transport Information

UN-Number ADR, IMDG, IATA	UN1950
UN proper shipping name ADR IMDG IATA	1950 AEROSOLS AEROSOLS AEROSOLS, flammable
Transport hazard class(es) ADR  Klasse Gefahrzettel	2 5F Gases 2.1
IMDG, IATA  Class Label	2.1 2.1
Packing group ADR, IMDG, IATA	Void
Environmental hazards Marine pollutant	No
Special precautions for user Danger code (Kemler) EMS-Nummer	Warning: Gases. - F-D,S-U
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
ADR Excepted quantities (EQ) Limited quantities (LQ) Transport category Tunnel restriction code	E0 1L 2 D
UN „Model Regulation“	UN1950, AEROSOLS, 2.1

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Section 15: Regulatory Information

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

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS02

Signal word Danger

Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

Precautionary statements

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

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

Section 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H220 Extremely flammable gas.
H280 Contains gas under pressure; may explode if heated.

R12 Extremely flammable.

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16.1 Abbreviations and acronyms

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

16.2 Update Notes

There are no update notes available at present.

Issued by:

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