



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 17/1/2018  
Version: 6  
Language: en-GB,IE  
Date of print: 8/3/2018

## Casting-Spray

Material number 09

Page: 1 of 11

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

#### 1.1 Product identifier

Trade name: Casting-Spray

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

General use: Wetting agent for impression and duplicating silicones and Impregum

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

Company name: Marcadent GmbH  
Street/POB-No.: Bernhard Hahn Str. 30  
Postal Code, city: 41812 Erkelenz  
Germany  
WWW: www.marcadent.de  
E-mail: info@marcadent.de  
Telephone: +49 (0)2431-80 558-45  
Telefax: +49 (0)2431-80 558-63  
Dept. responsible for information:  
Telephone: +49 (0)2431 8055845, E-mail: info@marcadent.de

#### 1.4 Emergency telephone number

Telephone: +49 (0)2431 8055845  
Only available during office hours.

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification according to EC regulation 1272/2008 (CLP)

Flam. Liq. 2; H225 Highly flammable liquid and vapour.  
Eye Irrit. 2; H319 Causes serious eye irritation.  
STOT SE 3; H336 May cause drowsiness or dizziness.

#### 2.2 Label elements

##### Labelling (CLP)



Signal word:

**Danger**

Hazard statements: H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 17/1/2018  
Version: 6  
Language: en-GB,IE  
Date of print: 8/3/2018

## Casting-Spray

Material number 09

Page: 2 of 11

### Precautionary statements:

- P102 Keep out of reach of children.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P243 Take action to prevent static discharges.
- P261 Avoid breathing vapours.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves and eye protection.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P501 Dispose of contents/container to hazardous or special waste collection point.

### Special labelling

Text for labelling: Contains Isopropyl alcohol.

### 2.3 Other hazards

High concentrations of vapours irritate the eyes and mucous membranes. Higher doses may lead to a narcotic effect.  
Prolonged/repetitive skin contact may cause skin defatting or dermatitis.  
May cause sensitisation especially in sensitive humans.  
Potentially explosive mixtures may form if adequate ventilation is not provided.

### Results of PBT and vPvB assessment:

No data available

## SECTION 3: Composition / information on ingredients

3.1 Substances: not applicable

### 3.2 Mixtures

Chemical characterisation: Mixture of the substance mentioned below with non-hazardous additions

Hazardous ingredients:

Ingredient	Designation	Content	Classification
EC No. 200-661-7 CAS 67-63-0	Isopropyl alcohol	< 60 %	Flam. Liq. 2; H225. Eye Irrit. 2; H319. STOT SE 3; H336.

Full text of H- and EUH-statements: see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General information: Move victim to fresh air.
- In case of inhalation: Move victim to fresh air; if necessary, provide artificial respiration or oxygen. If the casualty has difficulty breathing, call a doctor immediately.
- Following skin contact: Thoroughly wash skin with soap and water. In case of skin reactions, consult a physician.



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 17/1/2018  
Version: 6  
Language: en-GB,IE  
Date of print: 8/3/2018

## Casting-Spray

Material number 09

Page: 3 of 11

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Seek the attention of an ophthalmologist immediately.

After swallowing: Rinse mouth immediately and drink plenty of water.  
Do not induce vomiting. Never give anything by mouth to an unconscious person.  
Immediately get medical attention.

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

Nausea, vomiting, abdominal pain, gastrointestinal complaints, blood pressure drop.  
After intake of large amounts: Unconsciousness, coma, breathing paralysis (death).

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

Attention in case of vomiting and stomach pumping: danger of aspiration. Accelerate intestinal transit. Rinse mouth immediately and drink plenty of water. Give sodium sulfate as laxative (1 tablespoon in 1 glass of water) with plenty of activated coal. Otherwise, continue with symptomatic treatment.

If breathing becomes irregular or ceases, apply rescue breathing or artificial respiration immediately, where required supply oxygen.

Supervision and correction of circulation, balance of acid-base and electrolyte as well as blood-sugar level. During the after-treatment a diet rich in carbohydrates, proteins and vitamins, poor in fats.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media:

Carbon dioxide, extinguishing powder, alcohol resistant foam.

Extinguishing media which must not be used for safety reasons:

Full water jet

### 5.2 Special hazards arising from the substance or mixture

Highly flammable liquid and vapour. Liquid evaporates quickly.

Vapours are heavier than air and will spread at floor level. Vapours can form explosive mixtures with air. Beware of reignition.

May form dangerous gases and vapours in case of fire. In case of fire may be liberated: Carbon monoxide and carbon dioxide.

### 5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Additional information: Hazchem-Code: •2YE

Heating will lead to pressure increase: Danger of bursting and explosion. Use fine water spray to cool endangered containers.

Move undamaged containers from immediate hazard area if it can be done safely.

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Suppress gases/vapours/mists with water spray jet.

Do not allow fire water to penetrate into surface or ground water.

Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 17/1/2018  
Version: 6  
Language: en-GB,IE  
Date of print: 8/3/2018

## Casting-Spray

Material number 09

Page: 4 of 11

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Remove persons not involved upwind.  
Wear appropriate protective equipment. Do not breathe vapours. Avoid contact with the substance. Provide adequate ventilation.

#### 6.2 Environmental precautions

Do not allow to penetrate into soil, waterbodies or drains.  
Risk of explosion if the liquid enters the sewage system.  
If necessary notify appropriate authorities.

#### 6.3 Methods and material for containment and cleaning up

Dam spills and pump to remove. Close all lower level rooms. Contact expert.  
Absorb leftover product with non-flammable liquid-binding material (e.g. earth, sand, vermiculite or ground sand stone) and place in closed containers for disposal.

Additional information:

Use explosion-proof equipment and non-sparking tools/utensils.  
In case of spills of large quantities: Seal off endangered area. Restrict access to affected areas. In neighborhoods and industrial areas, warn inhabitants.

#### 6.4 Reference to other sections

Refer additionally to section 8 and 13.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Advices on safe handling: Provide for good room ventilation, suctioning/venting.

Wear appropriate protective equipment. Take all precautions necessary to avoid contact with skin, eye and mucous membranes and to avoid inhaling product vapours.  
Whenever possible use closed, grounded equipment with this product. Extract vapours by suction at point of emission. Consider waste gas values. Do not allow containers to stand open. Store product in a quantity adequate for 1 work-shift only.

Precautions against fire and explosion:

Take precautionary measures against static discharges. Keep away from sources of ignition - No smoking. Avoid sparks. Use explosion-proof equipment and non-sparking tools/utensils. With air, vapours form potentially explosive mixtures, which are heavier than air.

#### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed in a cool, well-ventilated place.  
Keep away from heat sources, sparks and open flames.  
Protect against direct sunlight.  
Store in a dry place. Keep only in the original container.  
Store containers in upright position. Explosion protection required.

Hints on joint storage:

Do not store together with combustible or self-igniting materials or any highly flammable solids. Avoid contact with strong oxidizing agents.

#### 7.3 Specific end use(s)

No information available.



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 17/1/2018  
Version: 6  
Language: en-GB,IE  
Date of print: 8/3/2018

## Casting-Spray

Material number 09

Page: 5 of 11

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
67-63-0	Isopropyl alcohol	Great Britain: WEL-STEL	1250 mg/m <sup>3</sup> ; 500 ppm
		Great Britain: WEL-TWA	999 mg/m <sup>3</sup> ; 400 ppm
		Ireland: 15 minutes	400 ppm
		Ireland: 8 hours	200 ppm

DNEL/DMEL: Information about Isopropyl alcohol:  
Systemic effects:  
DNEL Long-term, workers, dermal: 888 mg/kg bw/d  
DNEL Long-term, workers, inhalative: 500 mg/m<sup>3</sup>  
DNEL Long-term, consumers, oral: 26 mg/kg bw/d  
DNEL Long-term, consumers, dermal: 319 mg/kg bw/d  
DNEL Long-term, consumers, inhalative: 89 mg/m<sup>3</sup>

PNEC: Information about Isopropyl alcohol:  
PNEC water (freshwater): 140.9 mg/L  
PNEC water (marine water): 140.9 mg/L  
PNEC water (intermittent release): 140.9 mg/L  
PNEC sediment (freshwater): 552 mg/kg dw  
PNEC sediment (marine water): 552 mg/kg dw  
PNEC soil: 28 mg/kg dw  
PNEC sewage treatment plant: 552 mg/L  
PNEC Secondary Poisoning, oral: 160 mg/kg food and feedingstuffs

#### 8.2 Exposure controls

Provide good ventilation and/or an exhaust system in the work area.

#### Personal protection equipment

##### Occupational exposure controls

Respiratory protection: Respiratory protection must be worn whenever the WEL levels have been exceeded. Use filter type A (= against vapours of organic substances) according to EN 14387.

Hand protection: Protective gloves according to EN 374.  
Glove material:  
- Butyl caoutchouc (butyl rubber), thickness  $\geq$  0.5 mm, breakthrough time: 8 h  
- Fluororubber (Viton), thickness  $\geq$  0.4 mm, breakthrough time: 8 h  
- Nitrile rubber, thickness  $\geq$  0.35 mm, breakthrough time: 8 h  
- Polychloroprene, thickness  $\geq$  0.5 mm, breakthrough time: 4 h  
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to EN 166.

Body protection: Flame retardant protective clothing.



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 17/1/2018  
Version: 6  
Language: en-GB,IE  
Date of print: 8/3/2018

## Casting-Spray

Material number 09

Page: 6 of 11

### General protection and hygiene measures:

- Take off immediately all contaminated clothing.
- When using do not eat, drink or smoke.
- Keep away from food and drinks.
- Wash affected skin thoroughly after handling.
- Wash hands before breaks and after work.
- Work place should be equipped with a shower and an eye rinsing apparatus.
- Handle in accordance with good industrial hygiene and safety practice.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance:	Physical state at 20 °C and 101.3 kPa: liquid Colour: red
Odour:	fruity
Odour threshold:	No data available
pH value:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	88 °C
Flash point/flash point range:	18 °C
Evaporation rate:	No data available
Flammability:	Highly flammable liquid and vapour.
Explosion limits:	LEL (Lower Explosion Limit): 2.00 Vol-% UEL (Upper Explosive Limit): 12.00 Vol-%
Vapour pressure:	No data available
Vapour density:	No data available
Density:	No data available
Water solubility:	at 20 °C: miscible
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity, kinematic:	No data available
Explosive properties:	Vapours can form explosive mixtures with air.
Oxidizing characteristics:	No data available

### 9.2 Other information

Additional information: No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Highly flammable liquid and vapour.

### 10.2 Chemical stability

Stable under recommended storage conditions.



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 17/1/2018  
Version: 6  
Language: en-GB,IE  
Date of print: 8/3/2018

## Casting-Spray

Material number 09

Page: 7 of 11

### 10.3 Possibility of hazardous reactions

Liquid evaporates quickly. Vapours are heavier than air and will spread at floor level.  
Vapours can form explosive mixtures with air. Beware of reignition.

### 10.4 Conditions to avoid

Keep away from heat sources, sparks and open flames.

### 10.5 Incompatible materials

Oxidising agent, pyrophoric solids

### 10.6 Hazardous decomposition products

Thermal decomposition: No data available

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity: LD50 Rat, oral: 5045 mg/kg (Isopropyl alcohol)  
LD50 Rabbit, dermal: 12800 mg/kg (Isopropyl alcohol)  
LC50 Rat, inhalative: 46.5 mg/L/4h (Isopropyl alcohol)

Toxicological effects: Acute toxicity (oral): Lack of data.  
Acute toxicity (dermal): Lack of data.  
Acute toxicity (inhalative): Lack of data.  
Skin corrosion/irritation: Lack of data.  
Serious eye damage/irritation: Eye Irrit. 2; H319 = Causes serious eye irritation.  
Sensitisation to the respiratory tract: Lack of data.  
Skin sensitisation: Lack of data.  
Germ cell mutagenicity/Genotoxicity: Lack of data.  
Carcinogenicity: Lack of data.  
Reproductive toxicity: Lack of data.  
Effects on or via lactation: Lack of data.  
Specific target organ toxicity (single exposure): STOT SE 3; H336 = May cause drowsiness or dizziness.  
Specific target organ toxicity (repeated exposure): Lack of data.  
Aspiration hazard: Lack of data.

### Symptoms

In case of inhalation:  
Information about Isopropyl alcohol:  
High concentrations of vapours irritate the eyes and mucous membranes.  
After resorption: Headache, dizziness, inebriation, unconsciousness.  
After contact with skin:  
Information about Isopropyl alcohol:  
Prolonged/repetitive skin contact may cause skin defatting or dermatitis.



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 17/1/2018  
Version: 6  
Language: en-GB,IE  
Date of print: 8/3/2018

## Casting-Spray

Material number 09

Page: 8 of 11

### SECTION 12: Ecological information

#### 12.1 Toxicity

Aquatic toxicity: Information about Isopropyl alcohol:  
Toxic effect on fishes and plankton.  
Algae toxicity:  
EC50 *Desmodesmus subspicatus* (green algae): > 1000 mg/L/72h (IUCLID).  
Bacterial toxicity:  
EC5 *Pseudomonas putida*: 1050 mg/L/16h.  
Daphnia toxicity:  
EC50 *Daphnia magna* (Big water flea): 13299 mg/L/48h (IUCLID).  
Fish toxicity:  
LC50 *Lepomis macrochirus* (bluegill): 1400 mg/L/96h (ECOTOX Database).

#### 12.2 Persistence and degradability

Further details: Information about Isopropyl alcohol: Product is readily biodegradable.

#### 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:  
No data available

#### 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

No data available

#### 12.6 Other adverse effects

General information: Do not allow to penetrate into soil, waterbodies or drains.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

##### Product

Waste key number: 14 06 03\* = other solvents and solvent mixtures  
\* = Evidence for disposal must be provided.

Recommendation: Incinerate according to applicable local, state and federal regulations.  
Do not dispose of with household waste.

##### Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation. Handle contaminated packages in the same way as the substance itself. Non-contaminated packages may be recycled.  
Handle empty containers with care. Incineration may cause explosion.





# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 17/1/2018  
Version: 6  
Language: en-GB,IE  
Date of print: 8/3/2018

## Casting-Spray

Material number 09

Page: 9 of 11

### SECTION 14: Transport information

#### 14.1 UN number

ADR/RID, IMDG, IATA-DGR:

UN 1219

#### 14.2 UN proper shipping name

ADR/RID, IMDG: UN 1219, ISOPROPANOL (ISOPROPYL ALCOHOL)

IATA-DGR: UN 1219, Isopropanol

#### 14.3 Transport hazard class(es)

ADR/RID: Class 3, Code: F1

IMDG: Class 3, Subrisk -

IATA-DGR: Class 3



#### 14.4 Packing group

ADR/RID, IMDG, IATA-DGR:

II

#### 14.5 Environmental hazards

Marine pollutant: no

#### 14.6 Special precautions for user

##### Land transport (ADR/RID)

Warning board: ADR/RID: Kemmler-number 33, UN number UN 1219  
Hazard label: 3  
Special provisions: 601  
Limited quantities: 1 L  
EQ: E2  
Contaminated packaging - Instructions: P001 - IBC02 - R001  
Special provisions for packing together: MP19  
Portable tanks - Instructions: T4  
Portable tanks - Special provisions: TP1  
Tank coding: LGBF  
Tunnel restriction code: D/E

##### Sea transport (IMDG)

EmS: F-E, S-D  
Special provisions: -  
Limited quantities: 1 L  
Excepted quantities: E2  
Contaminated packaging - Instructions: P001  
Contaminated packaging - Provisions: -  
IBC - Instructions: IBC02  
IBC - Provisions: -  
Tank instructions - IMO: -  
Tank instructions - UN: T4  
Tank instructions - Provisions: TP1  
Stowage and handling: Category B.  
Properties and observations: Colourless, mobile liquid. Flashpoint: 12°C c.c. Explosive limits: 2% to 12%. Miscible with water.  
Segregation group: none



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 17/1/2018  
Version: 6  
Language: en-GB,IE  
Date of print: 8/3/2018

## Casting-Spray

Material number 09

Page: 10 of 11

### Air transport (IATA)

Hazard label: Flamm. liquid  
Excepted Quantity Code: E2  
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y341 - Max. Net Qty/Pkg. 1 L  
Passenger and Cargo Aircraft: Pack.Instr. 353 - Max. Net Qty/Pkg. 5 L  
Cargo Aircraft only: Pack.Instr. 364 - Max. Net Qty/Pkg. 60 L  
Special provisions: A180  
Emergency Response Guide-Code (ERG): 3L

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

## SECTION 15: Regulatory information

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

#### National regulations - Great Britain

Hazchem-Code: •2YE  
No data available

#### National regulations - EC member states

Volatile organic compounds (VOC):  
approx. 60 % by weight

#### Labelling of packaging with <= 125mL content



Signal word: **Danger**  
Hazard statements: not applicable  
Precautionary statements:  
P102 Keep out of reach of children.

### 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information

### Further information

Wording of the H-phrases under paragraph 2 and 3:  
H225 = Highly flammable liquid and vapour.  
H319 = Causes serious eye irritation.  
H336 = May cause drowsiness or dizziness.

Reason of change: Changes in section 2: Labelling (P-phrases: EU, ATP 8)  
Date of first version: 21/8/2013

### Department issuing data sheet

Contact person: see section 1: Dept. responsible for information



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 17/1/2018  
Version: 6  
Language: en-GB,IE  
Date of print: 8/3/2018

## Casting-Spray

Material number 09

Page: 11 of 11

---

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.