

Material Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)

Labshop

Chemicals, Restoration and Art Supplies

O87031 BEVA® 371 Hot-Sealing Adhesive - 5 l

Page 1

Revised edition: 19.05.2015

Version: 1

Printed: 20.11.2015

1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1. Product Identifier

Product Name: BEVA® 371 Hot-Sealing Adhesive - 5 l

Article No.: O87031

1.2. Relevant identified Uses of the Substance or Mixture and Uses advised against

Identified uses:

Heat-seal adhesive

Uses advised against:

1.3. Details of the Supplier of the Safety Data Sheet (Producer/Importer)

Company: Interlabshop BV

Address: Lage Brink 23, 7317BD Apeldoorn, The Netherlands

Tel./Fax.: +3155 521 5016

Internet: www.labshop.nl

E-Mail: labshop@labshop.nl

--

Importer:

1.4. Emergency No. 112 / 088 755 8000 (Mon-Fri 24/7)

2. Hazards Identification

2.1. Classification of the Substance or Mixture

Classification according to EC
Regulation 1272/2008

Flammable liquids, category 2

Skin irritation, hazard category 2

Specific Target Organ Toxicity (single exposure), category 3

Reproductive toxicity, category 2

Specific target organ toxicity (repeated exposure), category 2

Chronic aquatic toxicity, category 2

H225 Highly flammable liquid and vapour.

Cat.: 2

H315 Causes skin irritation.

Cat.: 2

H336 May cause drowsiness or dizziness.

Cat.: 3

H361d Suspected of damaging the unborn child.

Cat.: 2

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

Cat.: 2

H411 Toxic to aquatic life with long lasting effects.

Cat.: 2

Classification according to EC
Regulation No. 67/548 or No. 1999/45

Flammable (F) R11 Highly flammable

Irritating (Xi) R38 Irritating to skin.

next page: 2

Material Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)

Labshop

Chemicals, Restoration and Art Supplies

O87031 BEVA® 371 Hot-Sealing Adhesive - 5 I

Page 2

Revised edition: 19.05.2015

Version: 1

Printed: 20.11.2015

Harmful (Xn)	R48/20	Harmful: Danger of serious damage to health by prolonged exposure.
Hazardous to the environment (N)	R51	Toxic to aquatic organisms.
	R53	May cause long-term adverse effects in the aquatic environment.
Repr. Cat. 3	R63	Possible risk of harm to the unborn child.
	R67	Vapours may cause drowsiness and dizziness.

Safety Phrases:

Possible Environmental Effects:

2.2. Label Elements

Classification according to EC Regulation 1272/2008

Hazard designation:



GHS02-2



GHS05



GHS07



GHS09

Signal word:

Danger

Hazard designation:

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

Safety designation:

P201	Obtain special instructions before use.
P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P233	Keep container tightly closed.
P280	Wear protective gloves/ clothing/ eye/ face protection.
P304+P340	If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P308+P313	If exposed or concerned: Get medical advice/attention.

next page: 3

Material Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)

Labshop

Chemicals, Restoration and Art Supplies

O87031 BEVA® 371 Hot-Sealing Adhesive - 5 I

Page 3

Revised edition: 19.05.2015

Version: 1

Printed: 20.11.2015

Hazardous components for labelling:

Toluene

2. 3. Other Hazards

3. Composition/Information on Ingredients

3. 1. Substance

3. 2. Mixture

Chemical Characterization:

Hazardous Ingredients:

Hydrocarbons, C9-C10, n-Alkanes, Isoalkanes, Cyclenes, <2 % Aromatics (Xn; R10-65-66-67; H226-336-304); REACH Reg. No. 01-2119463586-28

7 - 9 %

CAS-Nr:

EINECS-Nr: 927-344-2

EC-Nr:

Toluene (F,Xn; R11-38-48/20-63-65-67; H225-304-315-336-361-373); REACH Reg.-No. 02-2119752507-34-0000

24 - 29 %

CAS-Nr: 108-88-3

EINECS-Nr: 203-625-9

EC-Nr: 601-021-00-3

Hydrocarbons, C7-C9, Isoalkanes (Xn; R11-38-51/53-65-67; H225-304-315-336-411); REACH Reg. No. 01-2119471305-42

15 - 20 %

CAS-Nr:

EINECS-Nr: 921-728-3

EC-Nr:

Naphtha (petroleum), hydrotreated heavy (Xn; R65-66; Asp.Tox.1, H304); REACH Reg. No. 01-2119457273-39

10 - 16 %

CAS-Nr: 64742-48-9

EINECS-Nr: 265-150-3

EC-Nr: 649-327-00-6

Additional information:

4. First Aid Measures

4. 1. Description of the First Aid Measures

General information:

Remove contaminated clothes immediately.

After inhalation:

Supply fresh air and seek medical advice in case of complaints.

Give artificial respiration in case breathing is not regular or if it has stopped.

After skin contact:

Remove contaminated clothing. Wash off immediately with plenty of water and soap.

Wash contaminated clothing before reuse.

After eye contact:

Remove contact lens. Rinse open eyes with plenty of water (10-15 min). Should irritation continue, seek medical advice.

After ingestion:

4. 2. Most important Symptoms and Effects, both Acute and Delayed

Symptoms:

No further information available.

Effects:

next page: 4

Material Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)

Labshop

Chemicals, Restoration and Art Supplies

087031 BEVA® 371 Hot-Sealing Adhesive - 5 I

Page 4

Revised edition: 19.05.2015

Version: 1

Printed: 20.11.2015

4. 3. Indication of any Immediate Medical Attention and special Treatment needed

Treatment:

No further information available.

5. Fire-Fighting Measures

5. 1. Extinguishing Media

Suitable extinguishing media:

Foam, CO2, dry extinguishing powder.

Unsuitable extinguishing media:

Water with full jet.

5. 2. Special Hazards arising from the Substance or Mixture

Special hazards:

In case of fire: hazardous gases/vapors may be released.

5. 3. Advice for Firefighters

Protective equipment:

Wear self-contained respiratory protective device and full protective gear.

Further information:

Collect contaminated extinguishing water and debris separately; avoid contamination of sewage system.

Cool exposed containers with water spray.

6. Accidental Release Measures

6. 1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

Wear protective clothing.

6. 2. Environmental Precautions

Environmental precautions:

Prevent contamination of soils, drains and surface water.

6. 3. Methods and Material for Containment and Cleaning Up

Methods and material:

Contain with absorbent, inert material (sand, diatomaceous earth, acid absorbent) and dispose accordingly.

6. 4. Reference to other Sections

Dispose of contaminated material according to Section 13.

Protective clothing, see Section 8.

7. Handling and Storage

7. 1. Precautions for Safe Handling

Instructions on safe handling:

Provide adequate ventilation.

Keep away from flames and sparks.

Provide adequate ventilation, also in floor area (vapors are heavier than air).

Hygienic measures:

next page: 5

Material Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)

Labshop

Chemicals, Restoration and Art Supplies

O87031 BEVA® 371 Hot-Sealing Adhesive - 5 I

Page 5

Revised edition: 19.05.2015

Version: 1

Printed: 20.11.2015

Do not eat or drink during work. Do not smoke.

7.2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:

Store in tightly sealed containers in a cool and well ventilated location.

Protect product from direct sunlight.

Keep away from ignitable sources, heat and fire.

Requirements for storage areas and containers:

Storage: In the original container.

Information on fire and explosion protection:

Take measures to prevent static electricity discharge, earth/ground all equipment.

Ground and bond containers when transferring material.

Storage class (VCI):

Further Information:

7.3. Specific End Use(s)

Further information:

8. Exposure Controls/Personal Protection

8.1. Parameters to be Controlled

Parameters to be controlled (DE):

Toluene, CAS 108-88-3;TWA (D): 190 mg/m3, 50 ppm (4)

Parameters to be controlled (EC):

Toluene: GB (TWA/8h: 191 mg/m3, 50 ppm; STEL/15min: 384 mg/m3, 100 ppm (skin)); IRL (TWA/8h: 192 mg/m3, 50 ppm; STEL/15min: 384 mg/m3, 100 ppm (skin)); TLV-ACGIH (TWA/8h: 75.4 mg/m3, 20 ppm)

Derived No-Effect Level (DNEL):

Predicted No-Effect Concentration (PNEC):

Additional Information:

8.2. Exposure Controls

Technical protective measures:

Provide adequate ventilation/exhaust system.

Technical protective measures have priority to personal protective measures.

Facilities storing or utilizing this material should be equipped with an eyewash and shower facility.

Personal Protection

General protective measures:

Avoid contact with eyes and skin.

Keep away from foodstuffs and drinks. Do not eat, drink or smoke

next page: 6

Material Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)

Labshop

Chemicals, Restoration and Art Supplies

O87031 BEVA® 371 Hot-Sealing Adhesive - 5 I

Page 6

Revised edition: 19.05.2015

Version: 1

Printed: 20.11.2015

during work. Wash hands before breaks and at the end of work.

Respiratory protection:

*Respiratory equipment required in case of insufficient ventilation.
Filter type AX-P2 (organic vapors, particles).*

Hand protection:

Protective gloves (EN 374)

Protective glove material:

Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material and dexterity. Always seek advice from glove suppliers.

Eye protection:

Tightly fitting safety goggles (EN 166).

Body protection:

*Protective clothing, antistatic.
Safety shoes (EN 344).*

Environmental precautions:

*Prevent contamination of open water ways and sewage system.
Avoid contamination of ground water.*

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

Form: gel

Color: opalescent

Odor: characteristic

Odor threshold:
No information available.

pH-Value:
not available

Melting temperature:
not available

Boiling temperature:
not available

Flash point: < 21°C

Evaporation rate:
not applicable

Flammability (solid, gas):
not applicable

Upper explosion limit:
no information available

Lower explosion limit:
no information available

Vapor pressure:

next page: 7

Material Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)

Labshop

Chemicals, Restoration and Art Supplies

O87031 BEVA® 371 Hot-Sealing Adhesive - 5 l

Page 7

Revised edition: 19.05.2015

Version: 1

Printed: 20.11.2015

not applicable

Vapor density:

No information available.

Density:

not available

Solubility in water:

insoluble

Coefficient of variation (n-Octanol/Water):

no information available

Auto-ignition temperature:

No information available.

Decomposition temperature:

not determined

Viscosity, dynamic:

not determined

Explosive properties:

not available

Oxidizing properties:

No information available.

Bulk density:

9.2. Further Information

Solubility in solvents:

Viscosity, kinematic

Burning class:

Solvent content:

Solid content:

Particle size:

Other information:

10. Stability and Reactivity

10.1. Reactivity

Stable if used according to specifications.

10.2. Chemical Stability

Stable if used according to specifications.

10.3. Possibility of Hazardous Reactions

Vapors in combination with air can form an explosive compound.

Toluene:

Risk of explosion with fuming sulfuric acid, nitric acid, silver perchlorates, nitrogen dioxide, non-metal halogenides, acetic acid, organic nitrocompounds.

Vigorous reactions possible with strong oxidizing agents, strong

next page: 8

Material Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)

Labshop

Chemicals, Restoration and Art Supplies

087031 BEVA® 371 Hot-Sealing Adhesive - 5 I

Page 8

Revised edition: 19.05.2015

Version: 1

Printed: 20.11.2015

acids, sulfur.

10.4. Conditions to Avoid

Conditions to avoid:

Avoid direct sunlight and heat.

Avoid electrostatic charging.

Thermal decomposition:

10.5. Incompatible Materials

None known.

10.6. Hazardous Decomposition Products

In the event of fire: see chapter 5.

10.7. Further Information

11. Toxicological Information

11.1. Information on Toxicological Effects

This product must be handled correctly because of its possible teratogenic effects, which may be toxic and damage the foetus.

Acute Toxicity

LD50, oral:

Symptoms: ingestion may cause health disorders, including stomach pain and sting, nausea and sickness.

LD50, dermal:

Symptoms: irritation, erythema, edema, dryness and chapped skin.

LC50, inhalation:

No information available.

Primary effects

Irritant effect on skin:

Irritating to skin.

Irritant effect on eyes:

Slight irritant effect possible.

Inhalation:

Can cause irritation of the respiratory system.

Ingestion:

Harmful if swallowed.

Sensitization:

No information available.

Mutagenicity:

No data available.

Reproductive toxicity:

Suspected of damaging the unborn child.

Cancerogenity:

No data available.

next page: 9

Material Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)

Labshop

Chemicals, Restoration and Art Supplies

O87031 BEVA® 371 Hot-Sealing Adhesive - 5 I

Page 9

Revised edition: 19.05.2015

Version: 1

Printed: 20.11.2015

Teratogenicity:

Toluene is embryofetotoxic and teratogenic.

Specific target organ toxicity (STOT):

Single exposure: may cause drowsiness or dizziness.

Repeated exposure: can damage the organs after repeated or prolonged exposure..

Additional toxicological information:

Long-term exposure may cause dry skin and mucous membranes, anorexia, weight loss, vomiting, diarrhea, skin rash, hair loss, convulsions and anemia.

Toluene: It has a toxic effect on the central and peripheral nervous system (with encephalopathies and polyneuritis). Irritating to the skin, conjunctivae, cornea and respiratory system.

12. Ecological Information

12. 1. Aquatic Toxicity

Toxic for aquatic organisms. In the long-term, it has negative effects on the aquatic environment.

Fish toxicity:

Daphnia toxicity:

Bacteria toxicity:

Algae toxicity:

12. 2. Persistency and Degradability

No information available.

12. 3. Bioaccumulation

No information available.

12. 4. Mobility

No information available.

12. 5. Results of PBT- und vPvP Assessment

On the basis of available data, the product does not contain and PBT or vPvB in percentage greater than 0.1 %.

12. 6. Other Adverse Effects

Water hazard class:

Do not let product contaminate ground water, waterways or sewage system.

Behaviour in sewage systems:

Further ecological effects:

AOX Value:

13. Disposal Considerations

13. 1. Waste Treatment Methods

Product:

If product cannot be reused or recycled, it has to be disposed of according to current local regulations.

Must be treated as toxic waste according to local laws and

next page: 10

Material Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)

Labshop

Chemicals, Restoration and Art Supplies

087031 BEVA® 371 Hot-Sealing Adhesive - 5 I

Page 10

Revised edition: 19.05.2015

Version: 1

Printed: 20.11.2015

regulations.

European Waste Code (EWC):

Uncleaned packaging:

Dispose of according to official local regulations.

Waste Code No.:

14. Transport Information

14.1. UN Number

ADR, IMDG, IATA 1263

14.2. UN Proper Shipping Name

ADR/RID: FARBE

IMDG/IATA: PAINT

14.3. Transport Hazard Classes

ADR Class: 3

Hazard no.: 3

Classification code: F1

Tunnel no.: D/E

IMDG Class (sea): 3

Hazard no.: 3

EmS No.: F-E, S-E

IATA Class: 3

Hazard no.: 3

14.4. Packaging Group

ADR/RID: II

IMDG: II

IATA: II

14.5. Environmental Hazards

Labelling according 5.2.1.8 ADR/RID: fish and tree

Labelling according 5.2.1.6.3 IMDG: fish and tree

14.6. Special Precautions for User

14.7. Transportation in Bulk according to Annex II of MARPOL 73/78 and IBC-Code

14.8. Further Information

15. Regulatory Information

15.1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

Water hazard class:

2, hazardous for water

Local regulations on chemical accidents:

Employment restrictions:

next page: 11

Material Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)

Labshop

Chemicals, Restoration and Art Supplies

O87031 BEVA® 371 Hot-Sealing Adhesive - 5 l

Page 11

Revised edition: 19.05.2015

Version: 1

Printed: 20.11.2015

Restriction and prohibition of application:

Technical instructions on air quality:

15. 2. Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this product.

15. 3. Further Information

16. Other Information

This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.