

Safety data sheet

according to Regulation (EC) No. 1907/2006



Printing date 12.05.2014

Version number 2

Revision: 12.05.2014

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

1.1 Product identifier

Trade name: CANADA BALSAM natural, for microscopy**Article number:** 8016**CAS Number:**

8007-47-4

EC number:

232-362-2

Registration number

A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

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

Application of the substance / the mixture

Laboratory chemical

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Carl Roth GmbH + Co. KG

Schoemperlenstraße 3-5

76185 Karlsruhe

Germany

Telefon: +49/(0)721 5606-0

Telefax: +49/(0)721 5606-149

E-Mail: sicherheit@carlroth.de**Further information obtainable from:** Department Health, Safety and Environment

1.4 Emergency telephone number:

Poison Centre Munich

Telefon +49/(0)89 19240

2 Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 3 H226 Flammable liquid and vapour.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

R10: Flammable.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

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

Hazard pictograms



GHS02

Signal word Warning

Hazard statements

H226 Flammable liquid and vapour.

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Precautionary statements

P210 Keep away from heat. - No smoking.

P280 Wear protective gloves.

Additional information:

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2.3 Other hazards

All chemicals are potentially dangerous. They are therefore only be handled by specially trained personnel with the necessary care.

Results of PBT and vPvB assessment**PBT:** Not applicable.**vPvB:** Not applicable.**3 Composition/information on ingredients****3.1 Chemical characterization: Substances****CAS No. Description**

8007-47-4 Canada balsam

Identification number(s)**EC number:** 232-362-2**4 First aid measures****4.1 Description of first aid measures****General information:**

Remove any clothing soiled by the product.

After inhalation:

Supply fresh air.

After skin contact:

Rinse with water

If there is any trouble seek medical help.

After eye contact:

To be sure rinse opened eye under running water. If there is any trouble seek medical help.

After swallowing:

Rinse out mouth and then drink water.

If there is any trouble seek medical help.

4.2 Most important symptoms and effects, both acute and delayed

Nausea

Vomiting

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

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5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: CO₂, powder, foam or water spray.

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture

Forms explosive mixtures with air at elevated temperatures.

In the event of fire development of hazardous combustion gases or vapours possible.

In case of fire, the following can be released:

Carbon monoxide and carbon dioxide

5.3 Advice for firefighters

Protective equipment:

Wear self-contained respiratory protective device.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Do not inhale vapours. Avoid contact with the eyes and skin.

Keep away from ignition sources.

6.2 Environmental precautions

Do not allow product to reach sewage system or any water course.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. Rotisorb® Art.-Nr. 1710.1).

Dispose of the material collected according to regulations.

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.

7 Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Information about fire - and explosion protection:



Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

No special requirements.

Information about storage in one common storage facility:

Store away from foodstuffs.

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Further information about storage conditions:

Keep container tightly sealed.

Keep away from sources of ignition and heat.

Recommended storage temperature: 15 - 25 °C**7.3 Specific end use(s)**

No further relevant information available.

8 Exposure controls/personal protection**Additional information about design of technical facilities:**

No further data; see item 7.

8.1 Control parameters**Ingredients with limit values that require monitoring at the workplace:** Not required.**Additional information:**

The lists valid during the making were used as basis.

8.2 Exposure controls**Personal protective equipment:****General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Avoid contact with the eyes and skin.

Wash hands before breaks and at the end of work.

Individual protection measures

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Respiratory protection:

Not necessary if room is well-ventilated.

Protection of hands:**Protective gloves**

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

Material of glovesNitrile, thickness: ≥ 0.11 mm

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.

Penetration time of glove materialValue for the permeation: Level ≥ 6

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

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As protection from splashes gloves made of the following materials are suitable:Nitrile, thickness: ≥ 0.11 mmValue for the permeation: Level ≥ 6 **Eye protection:**

Tightly sealed goggles

Body protection:

Antistatic and flame-retardent clothing.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form:	Highly viscous
Colour:	Yellowish
Odour:	Aromatic
Odour threshold:	Not determined.

pH-value:	No information available.
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Change in condition

Melting point/Melting range:	No information available.
Boiling point/Boiling range:	No information available.

Flash point:	43 °C
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Flammability (solid, gaseous):	No information available
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Ignition temperature:	No information available
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Decomposition temperature:	No information available
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Self-igniting:	No information available
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Danger of explosion:	Not classified als explosive.
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Explosion limits:

Lower:	No information available.
Upper:	No information available.

Oxidizing properties:	No information available.
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Vapour pressure:	No information available
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Density at 20 °C:	0.98-0.99 g/cm ³
Vapour density	Not determined.
Evaporation rate	No information available

Solubility in / Miscibility with water:	Insoluble.
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Partition coefficient (n-octanol/water):	No information available
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Viscosity:

Dynamic:	No information available.
Kinematic:	No information available.

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9.2 Other information

No further relevant information available.

10 Stability and reactivity

10.1 Reactivity

Fumes can combine with air to form an explosive mixture.

10.2 Chemical stability**Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions

Reacts with strong oxidizing agents.

10.4 Conditions to avoid

Heat, flammings and sparks

10.5 Incompatible materials:

No information available.

10.6 Hazardous decomposition products:

In case of fire: see item 5.

11 Toxicological information

11.1 Information on toxicological effects**Acute toxicity:****LD/LC50 values relevant for classification:**

Oral	LD ₅₀	> 5000 mg/kg (rat) (TOXNET)
Dermal	LD ₅₀	> 5000 mg/kg (rabbit) (TOXNET)

Specific symptoms in biological assay:**Primary irritant effect:****on the skin:**

Prolonged or repeated contact may cause skin irritations.

on the eye:

May cause temporary discomfort.

Intense exposure may cause irritative symptoms.

after inhalation:

Vapours may cause irritative symptoms.

Sensitization:

Sensitization possible in predisposed persons.

CMR effects:**Germ cell mutagenicity:**

No known significant effects or critical hazards.

Carcinogenicity:

No known significant effects or critical hazards.

Reproductive toxicity:

No known significant effects or critical hazards.

Aspiration hazard:

No aspiration toxicity classification.

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Specific target organ toxicity - single exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ toxicity - repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Additional toxicological information:After swallowing:

Nausea

Vomiting

Further information:

The product should be handled with the care usual when dealing with chemicals.

12 Ecological information**12.1 Toxicity****Aquatic toxicity:**

Quantitative data on the ecological effect of this product are not available.

12.2 Persistence and degradability

No further relevant information available.

12.3 Bioaccumulative potential

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

Ecotoxicological effects:**Remark:**

Do not allow to enter waters, waste water, or soil!

12.5 Results of PBT and vPvB assessment**PBT:** Not applicable.**vPvB:** Not applicable.**12.6 Other adverse effects**

No further relevant information available.

13 Disposal considerations**Waste treatment methods****Recommendation**

This material and its container must be disposed of as hazardous waste.

The disposal is regionally differently regulated, therefore the kind of disposal is to be inquired at the responsible authorities.

Uncleaned packaging:**Recommendation:**

Disposal according to official regulations.

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14 Transport information

14.1 UN-Number	
ADR, IMDG, IATA	UN1993
14.2 UN proper shipping name	
ADR	1993 FLAMMABLE LIQUID, N.O.S. (not viscous) (Canada balsam)
IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (Canada balsam)
14.3 Transport hazard class(es)	
ADR, IMDG, IATA	
	
Class	3 Flammable liquids.
Label	3
14.4 Packing group	
ADR, IMDG, IATA	III
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	
Danger code (Kemler):	Warning: Flammable liquids. 33
EMS Number:	F-E, S-E
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	
Not applicable.	
Transport/Additional information:	
ADR Limited quantities (LQ) 5L Transport category 3 Tunnel restriction code D/E Remarks: Sondervorschrift 640: E	
UN "Model Regulation":	
UN1993, FLAMMABLE LIQUID, N.O.S. (not viscous) (Canada balsam), 3, III	

15 Regulatory information

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

National regulations:

Information about limitation of use: Employment restrictions concerning juveniles must be observed.

Breakdown regulations:

Waterhazard class:

Water hazard class 2 (Self-assessment): hazardous for water.

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15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

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.

Department issuing MSDS: Department: Health, Safety and Environment**Contact:** Frau Weckemann**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)

ICAO: International Civil Aviation Organization

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

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

LD50*: Lethal Dose, 50 percent (Not relevant for classification)

LD50*: Lethal Concentration, 50 percent (Not relevant for classification)

Flam. Liq. 3: Flammable liquids, Hazard Category 3

*** Data compared to the previous version altered.**

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