

Safety Data Sheet

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

Labshop

Chemicals, Restoration and Art Supplies

87025

BEVA® Isolation Varnish

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Revised edition: 30.11.2016

Version: 1

Printed: 12.01.2017

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

1.1. Product Identifier

Product Name: BEVA® Isolation Varnish

Article No.: 87025

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

Identified uses:

No information available.

Uses advised against:

We have no information on any restrictions for this product.

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

Company: Interlabshop B.V.

Address: Lage Brink 23, 7317 BD Apeldoorn The Netherlands

Tel./Fax.: Tel. +3155-5215016

Internet: www.Labshop.nl

EMail: labshop@labshop.nl

Importer: --

1.4. Emergency No. --

Emergency No.: --

2. Hazards Identification

2.1. Classification of the Substance or Mixture

Classification according to Regulation
(EC) No. 1272/2008 (CLP/GHS)

Flammable liquids, hazard category 1
Serious eye damage, hazard category 2
Specific Target Organ Toxicity (single exposure), hazard category 3

H224 Extremely flammable liquid and vapour.
Cat.: 1

H319 Causes serious eye irritation.
Cat.: 2

H336 May cause drowsiness or dizziness.
Cat.: 3

H361d Suspected of damaging the unborn child.
Cat.: 2

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

Flammable (F) R11 Highly flammable

Harmful (Xn) R20 Harmful by inhalation.

Irritating (Xi) R36 Irritating to eyes.

Safety Phrases:

Possible Environmental Effects:

See Section 12.

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2.2. Label Elements

Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)

Hazard designation:



GHS02-2



GHS07



GHS08

Signal word:

Danger

Hazard designation:

H224	Extremely flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.

Safety designation:

P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P304+P340	If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses and continue rinsing.
P403+P235	Store in a well ventilated place. Keep cool.

Hazardous components for labelling:

2.3. Other Hazards

3. Composition/Information on Ingredients

3.1. Substance

3.2. Mixture

Chemical Characterization: PVA resins in volatile aromatic solvents

Information on Components / Hazardous Ingredients:

Ethanol (F; R11; H225; 319); REACH Reg.-Nr. 01-2119457610-43	ca. 70 %	CAS-Nr: 64-17-5 EINECS-Nr: 200-578-6 EC-Nr: 603-002-00-5
Toluene (F,Xn; R11-38-48/20-63-65-67; H225-304-315-336-361-373); REACH Reg.-No. 02-2119752507-34-0000	ca. 10 %	CAS-Nr: 108-88-3 EINECS-Nr: 203-625-9 EC-Nr: 601-021-00-3

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(1-Methoxy-2-propyl)-acetate (Flammable liq., Cat. 3, H226); REACH Reg. No. 01-2119475791-29-xxx	ca. 10 %	CAS-Nr: 108-65-6 EINECS-Nr: 203-603-9 EC-Nr: 607-195-00-7
Acetone (F,Xi; R11-36-66-67; H225-319-336); REACH Reg.-Nr. 01-2119471330-49-xxxx	5 - 10 %	CAS-Nr: 67-64-1 EINECS-Nr: 200-662-2 EC-Nr: 606-001-00-8

Additional information:

4. First Aid Measures

4.1. Description of the First Aid Measures

General information:

Take person away from hazardous area.
Give artificial respiration in case breathing is not regular or if it has stopped.
Remove contaminated clothes immediately.
Intoxication symptoms may occur after several hours, therefore a 48 hour medical observation is necessary.

After inhalation:

Supply fresh air. Consult physician if symptoms persist.
In case of unconsciousness place patient stable in side position for transportation.

After skin contact:

Remove contaminated clothing immediately. Wash off immediately with plenty of water and soap.
If irritation continues consult a physician.

After eye contact:

Rinse open eyes with plenty of water for at least 15 minutes.
Consult physician.

After ingestion:

Rinse mouth with water and give plenty of water to drink. Consult a physician.
Do not induce vomiting.

4.2. Most important Symptoms and Effects, both Acute and Delayed

Symptoms:

No further information available.

Effects:

No further information available.

4.3. Indication of any Immediate Medical Attention and special Treatment needed

Treatment:

Treat symptomatically.

5. Fire-Fighting Measures

5.1. Extinguishing Media

Suitable extinguishing media:

Water mist, extinguishing powder, foam, carbon dioxide

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Unsuitable extinguishing media:

Never apply a strong water jet.

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

Special hazards:

Highly flammable.

Fumes can form an explosive mixture with air.

In case of fire: formation of carbon monoxide.

5. 3. Advice for Firefighters

Protective equipment:

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

Further information:

Cool closed containers exposed to fire with water mist.

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

6. Accidental Release Measures

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

Personal precautions:

Wear appropriate protective equipment. Keep spectators away.

Ensure adequate ventilation.

Avoid contact with skin and eyes. Do not ingest or inhale.

Keep away from sources of ignition. No smoking.

6. 2. Environmental Precautions

Environmental precautions:

Prevent contamination of soils, drains and surface water.

Contact local authorities if product pollutes soil or vegetation.

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

Methods and material:

Contain with non-flammable absorbent material (e.g. sand, diatomaceous earth, vermiculite) and dispose accordingly.

Ensure adequate ventilation.

This product and its container must be disposed as hazardous waste.

6. 4. Reference to other Sections

Protective clothing, see Section 8.

See Section 13 for information on disposal.

7. Handling and Storage

7. 1. Precautions for Safe Handling

Instructions on safe handling:

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

Provide adequate ventilation.

Keep containers tightly closed.

Avoid contact with eyes and skin.

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A nearby eyewash facility should be available for emergencies.

Hygienic measures:

Take off contaminated clothing immediately.

Do not inhale gas/fumes/vapours/aerosols.

Avoid contact with eyes and skin.

Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.

7. 2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:

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

Keep away from flammable materials.

Do not store together with strong acids and oxidants.

Protect against heat.

Requirements for storage areas and containers:

Store in a room with a solvent-proof floor.

Suitable container material: stainless steel.

Information on fire and explosion protection:

Keep away from sources of ignition - do not smoke. Take measures to prevent electrostatic discharge.

Use only explosion protected devices.

Combustible liquid.

Vapors may form an explosive mixture with air. Vapor is heavier than air and spreads along the ground.

Storage class (VCI):

3: Flammable liquids

Further Information:

No information available.

7. 3. Specific End Use(s)

Further information:

No information available.

8. Exposure Controls/Personal Protection

8. 1. Parameters to be Controlled

Parameters to be controlled (DE):

200 ppm / 1000 mg/m³

Ethanol (64-17-5): 1920 mg/m³, 1000 ppm (STEL); 960 mg/m³, 500 ppm (TWA)

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

TRGS 900, Skin designation: can be absorbed by skin.

Y: No teratogenic risk when the exposure limit values (ELV) and biological limit values (BLV) are adhered to.

Acetone (CAS 67-64-1): TLV (TRGS 900): 500 ppm; 1200 mg/m³ (2)

(2-Methoxy-1-methyl-ethyl)-acetate (CAS 108-65-6): AGW (D):

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275 mg/m³, 50 ppm; 1(l); ECTLV: 550 mg/m³, 100 ppm (short-term value)

Parameters to be controlled:

Toluene

TWA (EU ELV): 192 mg/m³; 50 ppm

STEL (EU ELV): 384 mg/m³; 100 ppm

Acetone (CAS 67-64-1): TWA (EU ELV): 500 ppm; 1210 mg/m³

Derived No-Effect Level (DNEL):

Ethanol (CAS 64-17-5):

1900 mg/m³ (worker, inhalation, short-term exposition - local effect)

343 mg/kg kg/d (worker, skin contact, long-term exposition - systemic)

950 mg/m³ (worker, inhalation, long-term exposition - systemic); (consumer, inhalation; short-term exposition - local effect)

206 mg/kg kg/d (consumer, skin contact, long-term exposition - systemic)

114 mg/kg (consumer, inhalation, long-term exposition - systemic)

87 mg/kg kg/d (consumer, swallowing, long-term exposition - systemic)

Acetone:

186 mg/kg bw/d (worker, skin contact, long-term exposition)

2420 mg/m³ (worker, inhalation, short-term exposition)

1210 mg/kg (worker, inhalation, long-term exposition)

62 mg/kg bw/d (consumer, swallowing, long-term exposition)

62 mg/kg bw/d (consumer, skin contact, long-term exposition)

200 mg/kg bw/d (consumer, inhalation, long-term exposition)

(2-Methoxy-1-methyl-ethyl)-acetate (CAS 108-65-6):

153.5 mg/m³ (worker, skin contact, long-term exposition - systemic effects)

275 mg/m³ (worker, inhalation, long-term exposition - systemic effects)

1.67 mg/kg bw/d (consumer, swallowing, long-term exposition - systemic effects)

54.8 mg/kg bw/d (consumer, skin contact, long-term exposition - systemic effects)

33 mg/m³ (consumer, inhalation, long-term exposition - systemic effects)

Predicted No-Effect Concentration (PNEC):

Ethanol (CAS 64-17-5):

Fresh water: 0.96 mg/l

Seawater: 0.79 mg/l

Fresh water sediment: 3.6 mg/kg

Seawater sediment: 2.9 mg/kg

Sewage treatment system (STP): 580 mg/l

Sporadic release: 2.75 mg/l

Soil: 0.63 mg/kg dwt

Acetone:

Fresh water: 10.6 mg/l

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Sea water: 1.06 mg/l
Fresh water sediment: 30.4 mg/kg
Seawater sediment: 3.04 mg/l
Intermittent release: 21 mg/l
Sewage treatment system (STP): 100 mg/l
Soil: 29.5 mg/kg
(2-Methoxy-1-methyl-ethyl)-acetate (CAS 108-65-6):
Fresh water: 0.635 mg/l
Fresh water sediment: 3.29 mg/l
Soil: 0.29 mg/l
Sewage treatment system (STP): 100 mg/l

Additional Information:

8.2. Exposure Controls

Technical protective measures:

Adequate ventilation to control airborne concentrations below the exposure limits.

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

Personal Protection

General protective measures:

Avoid contact with eyes and skin.

Remove contaminated clothing immediately.

Do not inhale gas/fumes/vapor/aerosol.

Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.

Respiratory protection:

Required in case of insufficient ventilation (EN 143 or 149).

Recommended: composite filter A-P2 (EN 141)

Hand protection:

Protective gloves (EN 374)

Each work area must have adequate protective gloves.

The manufacturer's directions for use should be observed because of the great diversity of types.

Protective glove material:

Fluoro carbon rubber - FKM (480 min; > 0.4 mm).

Butyl rubber (480 min; 0.5 mm).

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:

Safety glasses with protective shields (EN 166).

Body protection:

Protective clothing.

Environmental precautions:

Prevent contamination of open water ways and sewage system.

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Avoid contamination of ground water.

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

Form:	<i>liquid</i>
Color:	<i>colorless</i>
Odor:	<i>alcohol-like</i>
Odor threshold:	<i>not determined</i>
pH-Value:	<i>not applicable</i>
Melting temperature:	<i>not determined</i>
Boiling temperature:	<i>not determined</i>
Flash point:	<i>ca. 12°C</i>
Evaporation rate:	<i>No information available.</i>
Flammability (solid, gas):	<i>flammable</i>
Upper explosion limit:	<i>no information available</i>
Lower explosion limit:	<i>no information available</i>
Vapor pressure:	<i>not determined</i>
Vapor density:	<i>No information available.</i>
Density:	<i>not determined</i>
Solubility in water:	<i>insoluble</i>
Coefficient of variation (n-Octanol/Water):	<i>no information available</i>
Auto-ignition temperature:	<i>No information available.</i>
Decomposition temperature:	<i>No data available.</i>
Viscosity, dynamic:	<i>not determined</i>
Explosive properties:	

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Product is not explosive; however, an explosive vapor/air mixture can be formed.

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:

No further information.

10. Stability and Reactivity

10.1. Reactivity

No information available.

10.2. Chemical Stability

No decomposition if used according to specifications.

10.3. Possibility of Hazardous Reactions

Reacts with strong acids and oxidizing agents.

10.4. Conditions to Avoid

Conditions to avoid:

Avoid contact with heat, sparks and open fire.

Thermal decomposition:

No data available.

10.5. Incompatible Materials

Strong acids and strong oxidizing agents.

10.6. Hazardous Decomposition Products

Carbon oxides

10.7. Further Information

11. Toxicological Information

11. 1. Information on Toxicological Effects

Acute Toxicity

LD50, oral:

Ethanol (CAS 64-17-5): 2000 mg/kg (rat; OECD 401)

Acetone (67-64-1): 5800 mg/kg (rat, OECD 401)

LD50, dermal:

Ethanol (CAS 64-17-5): > 2000 mg/kg (rabbit; OECD 402)

Acetone (67-64-1): > 15800 mg/kg (rabbit)

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LC50, inhalation:

Ethanol (64-17-5): > 20 mg/kg (4h, rat)

Acetone (67-64-1): 76 mg/kg (4h; rat)

Primary effects

Irritant effect on skin:

Ethanol (64-17-5): no skin irritation (OECD 404)

Toluene (108-88-3): irritating (rabbit)

Acetone (67-64-1): non irritating (guinea pig)

(2-Methoxy-1-methyl-ethyl)-acetate (CAS 108-65-6): non irritating (rabbit; OECD 404)

Irritant effect on eyes:

Ethanol (64-17-5): can irritate eyes (OECD 405)

Toluene (108-88-3): slightly irritating (rabbit)

Acetone (67-64-1): irritating (rabbit)

(2-Methoxy-1-methyl-ethyl)-acetate (CAS 108-65-6): non-irritating to eyes (rabbit; OECD 405)

Inhalation:

No information available.

Ingestion:

No information available

Sensitization:

Toluene: no sensitizing effects observed (rat)

Acetone: no sensitizing effects observed (guinea pig; OECD 406)

(2-Methoxy-1-methyl-ethyl)-acetate (CAS 108-65-6): not sensitizing (guinea pig; OECD 406)

Mutagenicity:

(2-Methoxy-1-methyl-ethyl)-acetate (CAS 108-65-6): Ames-Test negative (Salmonella typhimurium; OECD 471)

Reproductive toxicity:

No relevant data found.

Cancerogenicity:

No relevant data found.

Teratogenicity:

No information available.

Specific target organ toxicity (STOT):

No relevant data found.

Additional toxicological information:

No information available.

Handle in accordance with good industrial hygiene and safety practice.

12. Ecological Information

12.1. Aquatic Toxicity

Fish toxicity:

Ethanol: LC50: 15300 mg/l (96h, Pimephales promelas); 11200

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mg/l (24h, *Salmo gairdneri*)
Toluene: LC50: 24 mg/l (96h, *Oncorhynchus mykiss*)
Acetone:
LC50: 5540 mg/l (96h, *Oncorhynchus mykiss*)
LC50: 11000 mg/l (96h; *Alburnus alburnus*)
(2-Methoxy-1-methyl-ethyl)-acetate (CAS 108-65-6): LC50: 100 - 180 mg/l (96h, *Salmo gairdnerii*; OECD 203i); 63.5 mg/l (14d, *Oryzias latipes*; OECD 204)

Daphnia toxicity:

Ethanol: EC50: 858 mg/l (24h, *Artemia salina*; OECD 202); EC50: > 10000 mg/l (48h, *Daphnia magna*); LC50: 5012 mg/l (48h, *Ceriodaphnia dubia*)
Toluene: EC50: 11.5 mg/l (48h, *Daphnia magna*)
Acetone:
LC50: 8800 mg/l (48h, *Daphnia magna*)
NOEC: 2212 mg/l (28d; *Daphnia pulex*)
(2-Methoxy-1-methyl-ethyl)-acetate (CAS 108-65-6): EC50: 373 mg/l (48h, *Daphnia magna*; OECD 202); NOEC: > 100 mg/l (21d; OECD 211)

Bacteria toxicity:

Ethanol: EC50: 5800 mg/l (4h; *Paramecium caudatum*)
Toluene: NOEC: 29 mg/l (16h; *Pseudomonas putida*)
Acetone:
NOEC: 1000 mg/l (0.5h; active sludge; OECD 209)
(2-Methoxy-1-methyl-ethyl)-acetate (CAS 108-65-6): EC10: > 1000 mg/l (30 min, active sludge; OECD 209)

Algae toxicity:

Ethanol: EC50: 275 mg/l (3d, *Chlorella vulgaris*; OECD 201); EC10: 11.5 mg/l (3d, *Chlorella vulgaris*; OECD 201)
Toluene: IC50: 12 mg/l (72h, *Selenastrum capricornutum*)
Acetone:
NOEC: 430 mg/l (96h)
(2-Methoxy-1-methyl-ethyl)-acetate (CAS 108-65-6): EC50: > 1000 mg/l (96h, *Pseudokirchneriella subcapitata*; OECD 201)

12. 2. Persistency and Degradability

Ethanol: readily biodegradable (84 %, 20d).
Toluene: 86 % (20d); leicht biologisch abbaubar
Acetone:
91 % (28d); readily biodegradable (OECD 301B)
(2-Methoxy-1-methyl-ethyl)-acetate (CAS 108-65-6): 83 % (28d), readily biodegradable (OECD 301F); 100 % (8d), readily eliminable (OECD 302B)

12. 3. Bioaccumulation

Ethanol: log Kow -0.3, BCF 0.66. No bioaccumulation.
Toluene: no accumulation
Acetone:
Bioconcentration factor (BCF): < 10. No bioaccumulation.
(2-Methoxy-1-methyl-ethyl)-acetate (CAS 108-65-6): no accumulation expected (log POW 0.56)

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12. 4. Mobility

Ethanol: the product is mobile in aqueous environment. Not expected to adsorb on soil.

Toluene: Product floats on water.

Acetone: Product is readily volatile.

12. 5. Results of PBT- und vPvP Assessment

Ethanol: This substance is not classified as PBT (persistent, bioaccumulative, toxic), nor as vPvB (very persistent, very bioaccumulative).

Acetone: This substance is not classified as PBT (persistent, bioaccumulative, toxic), nor as vPvB (very persistent, very bioaccumulative).

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:

In accordance with current regulations, product may be taken to an incineration plant.

European Waste Code (EWC):

The waste code is determined according to the kind of waste and industry stated in the European Waste Catalogue.

Uncleaned packaging:

Uncontaminated packaging may be recycled. Completely empty packaging can be disposed of with the regular waste.

Do not puncture, cut or weld uncleaned drums. Risk of explosion.

Packaging may be disposed of in the same manner as the product.

Waste Code No.:

14. Transport Information

14. 1. UN Number

ADR, IMDG, IATA

1993

14. 2. UN Proper Shipping Name

ADR/RID:

ENTZÜNDBARER FLÜSSIGER STOFF, N.A.G. (Ethylalkohol, Toluol)

IMDG/IATA:

FLAMMABLE LIQUID, N.O.S. (Ethyl alcohol, Toluene)

14. 3. Transport Hazard Classes

ADR Class:

3

Hazard no.:

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	<i>Classification code:</i>	<i>F1</i>
	<i>Tunnel restriction code:</i>	<i>D/E</i>
	<i>IMDG Class (sea):</i>	<i>3</i>
	<i>Hazard no.:</i>	<i>3</i>
	<i>EmS No.:</i>	<i>F-E, S-D</i>
	<i>IATA Class:</i>	<i>3</i>
	<i>Hazard no.:</i>	<i>3</i>
14. 4.	Packaging Group	
	<i>ADR/RID:</i>	<i>II</i>
	<i>IMDG:</i>	<i>II</i>
	<i>IATA:</i>	<i>II</i>
14. 5.	Environmental Hazards	
		<i>Labelling according 5.2.1.8 ADR/RID: no</i>
		<i>Labelling according 5.2.1.6.3 IMDG: no</i>
		<i>Classification as environmentally hazardous according 2.9.3</i>
		<i>IMDG: no</i>
		<i>Labelled with "P" according 2.10 IMDG: no</i>
14. 6.	Special Precautions for User	
		<i>not applicable</i>
14. 7.	Transportation in Bulk according to Annex II of MARPOL 73/78 and IBC-Code	
		<i>IMDG: not applicable</i>
14. 8.	Further Information	
15.	Regulatory Information	
15. 1.	Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture	
	<i>Water hazard class:</i>	<i>2, hazardous for water (German Regulation)</i>
	<i>Local regulations on chemical accidents:</i>	<i>Underlies the Accident Ordinance 7b.</i>
	<i>Employment restrictions:</i>	<i>The employment restrictions for expectant and nursing mothers in accordance with the Maternity Protection Guideline (94/85/EEC) are to be observed.</i>
		<i>The employment restrictions for young workers in accordance with the Youth Employment Protection Law (94/33/EC) are to be observed.</i>
	<i>Restriction and prohibition of application:</i>	
	<i>Technical instructions on air quality:</i>	
15. 2.	Chemical Safety Assessment	
		<i>This product contains substances which have been registered according to the REACH Regulation (EC) 1907/2006.</i>
15. 3.	Further Information	

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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.