

TOKUYAMA DENTAL CORP.

MATERIAL SAFETY DATA SHEET

(According to 91/155/EEC and OSHA regulation 29 CFR 1910.1200(g))

1. Identification of substance

Product name	BISTITE II Pastes (A & B Pastes in Super Syringe)
Description of Product	Adhesive Resin Cement, For dental professionals only.
Manufacturer	Tokuyama Dental Corp. 38-9, Taitou 1-chome, Taitou-ku, Tokyo, Japan
EC Representative (Emergency Contact in EU)	Tokuyama Europe GmbH Oststrasse 10, 40211 Düsseldorf, Germany Tel:+49 211 1754480, Fax:+49 211 357379
North/South America Middle East	J. MORITA USA, Inc. 9 Mason, Irvine, CA 92618, U.S.A. Tel: (949) 581 9600, Fax: (949) 465 1095 Tel: (800) 831 3222 Email: info@jmoritausa.com

2. Composition / Data on components

Ingredients	%	Cas.No.	Symbols	R-phrases	OSHA PEL
Mixture of Silica based fillers	77				N/E
Composition of Methacrylates	23				N/E

(No dangerous components)

3. Hazard identification

Repeated prolonged contact may cause skin inflammation .
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4. First aid measures

After skin contact	Wash with soap and plenty of water.
After eye contact	Wash immediately with plenty of water. Get medical attention.
After swallowing	Induce vomiting immediately. Get medical attention.

5. Fire fighting measures

Suitable extinguishing media	Chemical foam, carbon dioxide or dry chemical
Media not to be used	None
Combustion products and resulting gases	None
Special precaution firefighters	Use protective clothing and a self-contained breathing apparatus.

6. Accidental release measures

Personal protection	Not required
Environmental protection	Not required
Methods for cleaning up	Clean up with an inert absorbent.

7. Handling and storage

Handling	Use in a well ventilated place.
Storage	Store in a cool, dark place (0 ~ 10).

8. Exposure controls / personal protection

In general	Not required
Respiration protection	Not required
Hand protection	Wear suitable protective gloves.
Eye protection	Wear suitable protective glasses.
Skin protection	Wear suitable protective clothing.

9. Physical and chemical properties

Appearance	White or light brown tinted paste	Explosive properties	None
Odour	None	Oxidizing properties	None
pH	N/A	Vapor pressure	N/A
Boiling point	None	Relative density	N/A
Melting point	N/A	Solubility (water)	None
Flash point	N/A	Solubility (Solvent)	N/A
Flammability	None	Partition coefficient	N/A
Autoflammability	None	Others	

10. Stability and reactivity

Conditions to avoid	Light, Heat, open flames
Materials to avoid	Strong oxidizing agents
Hazardous reactions	No hazardous reactions known

11. Toxicological information

Inhalation	No irritating effect
Ingestion	Slight irritating of the digesting organs
Skin contact	Slight irritating effect, repeated prolonged contact may cause inflammation.
Eye contact	Slight irritation
Carcinogenicity	N/R
Others	

13. Disposal consideration

Disposal must be made according to federal, state and local regulations.
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14. Transport information

UN number	Not subject to this section
Air transport	
Sea transport	
Inland transport	

15. Regulatory information

Marking according to EU regulations	Not subject to the 67/548/EEC
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16. Other information

The information which is contained in this document is based on available data. However, as such has been obtained from various sources, including independent laboratories, it is given without warranty or representation that is complete, accurate and can be relied upon. Tokuyama Dental Corp has not attempted to conceal in any way the deleterious aspects of the product listed herein, but makes no warranty as to such.

* N/E: Not Established, N/A: Not Available, N/R: Not Regulated by IARC

1. Identification of substance

Product name	BISTITE II Primer 1A
Description of Product	Primer for adhesive resin cement, For dental professionals only
Manufacturer	Tokuyama Dental Corp. 38-9, Taitou 1-chome, Taitou-ku, Tokyo, Japan
EC Representative (Emergency Contact in EU)	Tokuyama Europe GmbH Oststrasse 10, 40211 Dusseldorf, Germany Tel:+49 211 1754480, Fax:+49 211 357379
North/South America Middle East	J. MORITA USA, Inc. 9 Mason, Irvine, CA 92618, U.S.A. Tel: (949) 581 9600, Fax: (949) 465 1095 Tel: (800) 831 3222 Email: info@jmoritausa.com

2. Composition / Data on components

Ingredients	%	Cas.No.	Symbols	R-phrases	OSHA PEL
Acetone	48	67-64-1	F	R11	2400mg/m ³
Composition of Methacrylates		-	-	-	N/E
Isopropanol	52	67-63-0	F	R11	980mg/m ³
Phosphoric acid monomer		-	-	-	N/E

3. Hazard identification

Repeated prolonged contact may cause skin inflammation.

4. First aid measures

After skin contact	Wash with soap and plenty of water.
After eye contact	Wash immediately with plenty of water. Get medical attention.
After swallowing	Do not induce vomiting. Induce drinking plenty of water and get medical attention.

5. Fire fighting measures

Suitable extinguishing media	Chemical foam, carbon dioxide or dry chemical
Media not to be used	None
Combustion products and resulting gases	Irritant gas may be released during heating or in case of fire.
Special precaution firefighters	Use protective clothing and a self-contained breathing apparatus.

6. Accidental release measures

Personal protection	Not required
Environmental protection	Do not empty into drains.
Methods for cleaning up	Clean up with an inert absorbent and dispose of at special waste collection point.

7. Handling and storage

Handling	Use only in well-ventilated areas.
Storage	Store in a cool, dark place (0 ~ 10).

8. Exposure controls / personal protection

In general	Not required
Respiration protection	Not required
Hand protection	Wear suitable protective gloves.
Eye protection	Wear suitable protective glasses.
Skin protection	Wear suitable protective clothing.

9. Physical and chemical properties

Appearance	Yellowish liquid	Explosive properties	N/A
Odour	Characteristic odour	Oxidizing properties	None
pH	Acidic	Vapor pressure	N/A
Boiling point	N/A	Relative density	N/A
Melting point	N/A	Solubility (water)	N/A
Flash point	- 16.5	Solubility (Solvent)	N/A
Flammability	Highly flammable	Partition coefficient	N/A
Autoflammability	N/A	Others	

10. Stability and reactivity

Conditions to avoid	Heat, sparks and open flames
Materials to avoid	Strong oxidizing agents
Hazardous reactions	Incomplete thermal decomposition may cause toxic gases.

11. Toxicological information

Inhalation	Irritation of the respiratory organs
Ingestion	
Skin contact	Slight irritation, defatting action, repeated prolonged contact may cause inflammation.
Eye contact	Irritation, redness, pain
Carcinogenicity	N/R
Others	

12. Ecological information

Biodegradability	N/A
Bioaccumulative	N/A
Aquatic toxicity	N/A
Others	

13. Disposal consideration

Disposal must be made according to federal, state and local regulations.
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14. Transport information

UN number	Not subject to this section
Air transport	Highly Flammable. See section 2 and 9.
Sea transport	
Inland transport	

15. Regulatory information

Marking according to EU regulations	67/548/EEC, 92/32/EEC
Contains	Acetone
Symbols	F: Flammable
R-phrases	R11: Highly flammable
S-phrases	S9: Keep container in a well-ventilated place. S16:Keep away from sources of ignition - No smoking. S23: Do not breath vapor. S33: Take precautionary measures against static discharges.
Others	R and S-phrases are not marked according to contents not more than 125ml and the case not related to the general public (Article 23* Labeling " - 3).

16. Other information

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1. Identification of substance

Product name	BISTITE II Primer 1B
Description of Product	Primer for adhesive resin cement, For dental professionals only
Manufacturer	Tokuyama Dental Corp. 38-9, Taitou 1-chome, Taitou-ku, Tokyo, Japan
EC Representative (Emergency Contact in EU)	Tokuyama Europe GmbH Oststrasse 10, 40211 Dusseldorf, Germany Tel:+49 211 1754480, Fax:+49 211 357379
North/South America Middle East	J. MORITA USA, Inc. 9 Mason, Irvine, CA 92618, U.S.A. Tel: (949) 581 9600, Fax: (949) 465 1095 Tel: (800) 831 3222 Email: info@jmoritausa.com

2. Composition / Data on components

Ingredients	%	Cas.No.	Symbols	R-phrases	OSHA PEL
Water	86	-	-	-	N/E
Isopropanol	11	67-63-0	F	R11	980mg/m ³
Initiator	3	-	-	-	N/E

3. Hazard identification

Repeated prolonged contact may cause skin inflammation.

4. First aid measures

After skin contact	Wash with soap and plenty of water.
After eye contact	Wash immediately with plenty of water. Get medical attention.
After swallowing	Induce vomiting immediately. Get medical attention.

5. Fire fighting measures

Suitable extinguishing media	Chemical foam, carbon dioxide or dry chemical
Media not to be used	None
Combustion products and resulting gases	Irritant gas may be released during heating or in case of fire.
Special precaution firefighters	Use protective clothing and a self-contained breathing apparatus.

6. Accidental release measures

Personal protection	Not required
Environmental protection	Do not empty into drains.
Methods for cleaning up	Clean up with an inert absorbent and dispose of at special waste collection point.

7. Handling and storage

Handling	Use only in well-ventilated areas.
Storage	Store in a cool, dark place (0 ~ 10).

8. Exposure controls / personal protection

In general	Not required
Respiration protection	Not required
Hand protection	Wear suitable protective gloves.
Eye protection	Wear suitable protective glasses.
Skin protection	Wear suitable protective clothing.

9. Physical and chemical properties

Appearance	Slight blue liquid	Explosive properties	N/A
Odour	Characteristic odour	Oxidizing properties	None
pH	Neutral	Vapor pressure	N/A
Boiling point	N/A	Relative density	N/A
Melting point	N/A	Solubility (water)	N/A
Flash point	None	Solubility (Solvent)	N/A
Flammability	None	Partition coefficient	N/A
Autoflammability	N/A	Others	

10. Stability and reactivity

Conditions to avoid	Heat and open flames
Materials to avoid	Strong oxidizing agents
Hazardous reactions	Incomplete thermal decomposition may cause toxic gases.

11. Toxicological information

Inhalation	None
Ingestion	None
Skin contact	Repeated prolonged contact may cause inflammation.
Eye contact	Slight irritation, redness, pain
Carcinogenicity	N/R
Others	

12. Ecological information

Biodegradability	N/A
Bioaccumulative	N/A
Aquatic toxicity	N/A
Others	

13. Disposal consideration

Disposal must be made according to federal, state and local regulations.
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14. Transport information

UN number	Not subject to this section
Air transport	-
Sea transport	-
Inland transport	-

15. Regulatory information

Marking according to EU regulations	Not subject to the 67/548/EEC
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16. Other information

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1. Identification of substance

Product name	BISTITE II Primer 2
Description of Product	Primer for adhesive resin cement, For dental professionals only
Manufacturer	Tokuyama Dental Corp. 38-9, Taitou 1-chome, Taitou-ku, Tokyo, Japan
EC Representative (Emergency Contact in EU)	Tokuyama Europe GmbH Oststrasse 10, 40211 Dusseldorf, Germany Tel:+49 211 1754480, Fax:+49 211 357379
North/South America Middle East	J. MORITA USA, Inc. 9 Mason, Irvine, CA 92618, U.S.A. Tel: (949) 581 9600, Fax: (949) 465 1095 Tel: (800) 831 3222 Email: info@jmoritausa.com

2. Composition / Data on components

Ingredients	%	Cas.No.	Symbols	R-phrases	OSHA PEL
Aceton	54	67-64-1	F	R11	2400mg/m ³
Composition of Methacrylates	43	-	-	-	N/E
Initiator	3	-	-	-	N/E

3. Hazard identification

Repeated prolonged contact may cause skin inflammation.

4. First aid measures

After skin contact	Wash with soap and plenty of water.
After eye contact	Wash immediately with plenty of water. Get medical attention.
After swallowing	Induce vomiting immediately. Get medical attention.

5. Fire fighting measures

Suitable extinguishing media	Chemical foam, carbon dioxide or dry chemical
Media not to be used	None
Combustion products and resulting gases	Irritant gas may be released during heating or in case of fire.
Special precaution firefighters	Use protective clothing and a self-contained breathing apparatus.

6. Accidental release measures

Personal protection	Not required
Environmental protection	Not required
Methods for cleaning up	Clean up with an inert absorbent.

7. Handling and storage

Handling	Use in a well ventilated place.
Storage	Store in a cool, dark place (0 ~ 10).

8. Exposure controls / personal protection

In general	Not required
Respiration protection	Not required
Hand protection	Wear suitable protective gloves.
Eye protection	Wear suitable protective glasses.
Skin protection	Wear suitable protective clothing.

9. Physical and chemical properties

Appearance	Transparent liquid	Explosive properties	N/A
Odour	Characteristic slight odour	Oxidizing properties	None
pH	Neutral	Vapor pressure	N/A
Boiling point	N/A	Relative density	N/A
Melting point	N/A	Solubility (water)	N/A
Flash point	- 15.0	Solubility (Solvent)	N/A
Flammability	Highly flammable	Partition coefficient	N/A
Autoflammability	N/A	Others	

10. Stability and reactivity

Conditions to avoid	Heat, sparks and open flames
Materials to avoid	Strong oxidizing agents
Hazardous reactions	No hazardous reactions known

11. Toxicological information

Inhalation	Irritation of the respiratory organs
Ingestion	Irritation of the digesting organs
Skin contact	Irritation, defatting action, repeated prolonged contact may cause inflammation.
Eye contact	Irritation, redness, pain
Carcinogenicity	N/R
Others	

13. Disposal consideration

Disposal must be made according to federal, state and local regulations.

15. Regulatory information

Marking according to EU regulations	67/548/EEC, 92/32/EEC
Contains	Acetone
Symbols	F: Flammable
R-phrases	R11: Highly flammable
S-Phrases	S9: Keep container in a well-ventilated place. <p>S16:Keep away from sources of ignition - No smoking.</p> <p>S23: Do not breath vapor.</p> <p>S33: Take precautionary measures against static discharges.</p>
Others	R and S-phrases are not marked according to contents not more than 125ml and the case not related to the general public (Article 23 "Labeling" - 3).

16. Other information

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1. Identification of substance

Product name	TOKUSO CERAMIC PRIMER (A & B)
Description of Product	Primer for bonding to ceramic, For dental professionals only
Manufacturer	Tokuyama Dental Corp. 38-9, Taitou 1-chome, Taitou-ku, Tokyo, Japan
EC Representative (Emergency Contact in EU)	Tokuyama Europe GmbH Oststrasse 10, 40211 Dusseldorf, Germany Tel:+49 211 1754480, Fax:+49 211 357379
North/South America Middle East	J. MORITA USA, Inc. 9 Mason, Irvine, CA 92618, U.S.A. Tel: (949) 581 9600, Fax: (949) 465 1095 Tel: (800) 831 3222 Email: info@jmoritausa.com

2. Composition / Data on components

Ingredients	%	Cas.No.	Symbols	R-phrases	OSHA PEL
Ethanol	97	64-17-5	F	R11	1900mg/m ³
Composition of Methacrylates	3	-	-	-	N/E

3. Hazard identification

Repeated prolonged contact may cause skin inflammation.

4. First aid measures

After skin contact	Wash with soap and plenty of water.
After eye contact	Wash immediately with plenty of water. Get medical attention.
After swallowing	Induce vomiting immediately. Get medical attention.

5. Fire fighting measures

Suitable extinguishing media	Chemical foam, carbon dioxide or dry chemical
Media not to be used	None
Combustion products and resulting gases	Irritant gas may be released during heating or in case of fire.
Special precaution firefighters	Use protective clothing and a self-contained breathing apparatus.

6. Accidental release measures

Personal protection	Not required
Environmental protection	Not required
Methods for cleaning up	Clean up with an inert absorbent.

7. Handling and storage

Handling	Use in a well ventilated place.
Storage	Store in a cool, dark place (0 ~ 25).

8. Exposure controls / personal protection

In general	Not required
Respiration protection	Not required
Hand protection	Wear suitable protective gloves.
Eye protection	Wear suitable protective glasses.
Skin protection	Wear suitable protective clothing.

9. Physical and chemical properties

Appearance	Transparent liquid	Explosive properties	3.3 ~ 19%
Odour	Characteristic slight odour	Oxidizing properties	None
pH	Acidic	Vapor pressure	N/A
Boiling point	78	Relative density	N/A
Melting point	N/A	Solubility (water)	N/A
Flash point	14	Solubility (Solvent)	N/A
Flammability	Highly flammable	Partition coefficient	N/A
Autoflammability	423	Others	

10. Stability and reactivity

Conditions to avoid	Heat, sparks and open flames
Materials to avoid	Strong oxidizing agents
Hazardous reactions	No hazardous reactions known

11. Toxicological information

Inhalation	Irritation of the respiratory organs
Ingestion	Irritation of the digesting organs
Skin contact	Irritation, defatting action, repeated prolonged contact may cause inflammation.
Eye contact	Irritation, redness, pain
Carcinogenicity	N/R
Others	

13. Disposal consideration

Disposal must be made according to federal, state and local regulations.

15. Regulatory information

Marking according to EU regulations	67/548/EEC, 92/32/EEC
Contains	Ethanol
Symbols	F: Flammable
R-phrases	R11: Highly flammable
S-Phrases	S2: Keep out of the reach of children. <p>S7: Keep container tightly closed.</p> <p>S16: Keep away from heat.</p>
Others	R and S-phrases are not marked according to contents not more than 125ml and the case not related to the general public (Article 23 "Labeling" - 3).

16. Other information

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1. Identification of substance

Product name	METALTITE
Description of Product	Primer for bonding to precious metal, For dental professionals only
Manufacturer	Tokuyama Dental Corp. 38-9, Taitou 1-chome, Taitou-ku, Tokyo, Japan
EC Representative (Emergency Contact in EU)	Tokuyama Europe GmbH Oststrasse 10, 40211 Dusseldorf, Germany Tel:+49 211 1754480, Fax:+49 211 357379
North/South America Middle East	J. MORITA USA, Inc. 9 Mason, Irvine, CA 92618, U.S.A. Tel: (949) 581 9600, Fax: (949) 465 1095 Tel: (800) 831 3222 Email: info@jmoritausa.com

2. Composition / Data on components

Ingredients	%	Cas.No.	Symbols	R-phrases	OSHA PEL
Adhesive promoter	Trace	-	-	-	N/E
Ethanol	100	64-17-5	F	R11	1900mg/m ³

3. Hazard identification

Repeated prolonged contact may cause skin inflammation.

4. First aid measures

After skin contact	Wash with soap and plenty of water.
After eye contact	Wash immediately with plenty of water. Get medical attention.
After swallowing	Induce vomiting immediately. Get medical attention.

5. Fire fighting measures

Suitable extinguishing media	Chemical foam, carbon dioxide or dry chemical
Media not to be used	None
Combustion products and resulting gases	Irritant gas may be released during heating or in case of fire.
Special precaution firefighters	Use protective clothing and a self-contained breathing apparatus.

6. Accidental release measures

Personal protection	Not required
Environmental protection	Not required
Methods for cleaning up	Clean up with an inert absorbent.

7. Handling and storage

Handling	Use in a well ventilated place.
Storage	Store in a cool, dark place (0 ~ 25).

8. Exposure controls / personal protection

In general	Not required
Respiration protection	Not required
Hand protection	Wear suitable protective gloves.
Eye protection	Wear suitable protective glasses.
Skin protection	Wear suitable protective clothing.

9. Physical and chemical properties

Appearance	Transparent liquid	Explosive properties	3.3 ~ 19%
Odour	Characteristic slight odour	Oxidizing properties	None
pH	Neutral	Vapor pressure	N/A
Boiling point	78	Relative density	0.79 at 15
Melting point	N/A	Solubility (water)	N/A
Flash point	14	Solubility (Solvent)	N/A
Flammability	Highly flammable	Partition coefficient	N/A
Autoflammability	423	Others	

10. Stability and reactivity

Conditions to avoid	Heat, sparks and open flames
Materials to avoid	Strong oxidizing agents
Hazardous reactions	No hazardous reactions known

11. Toxicological information

Inhalation	Irritation of the respiratory organs
Ingestion	Irritation of the digesting organs
Skin contact	Irritation, defatting action, repeated prolonged contact may cause inflammation.
Eye contact	Irritation, redness, pain
Carcinogenicity	N/R
Others	

13. Disposal consideration

Disposal must be made according to federal, state and local regulations.

14. Transport information

UN number 1170

Air transport Highly Flammable. See sction 2 and 9.

15. Regulatory information

Marking according to EU regulations	67/548/EEC, 92/32/EEC
Contains	Ethanol
Symbols	F: Flammable
R-phrases	R11: Highly flammable
S-Phrases	S2: Keep out of the reach of children. <p>S7: Keep container tightly closed.</p> <p>S16: Keep away from heat.</p>
Others	R and S-phrases are not marked according to contents not more than 125ml and the case not related to the general public (Article 23 "Labeling" - 3).

16. Other information

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1. Identification of substance

Product name	BISTITE II Air Barrier
Description of Product	Air barrier for adhesive resin cement, For dental professionals only
Manufacturer	Tokuyama Dental Corp. 38-9, Taitou 1-chome, Taitou-ku, Tokyo, Japan
EC Representative (Emergency Contact in EU)	Tokuyama Europe GmbH Ostistrasse 10, 40211 Dusseldorf, Germany Tel:+49 211 1754480, Fax:+49 211 357379
North/South America Middle East	J. MORITA USA, Inc. 9 Mason, Irvine, CA 92618, U.S.A. Tel: (949) 581 9600, Fax: (949) 465 1095 Tel: (800) 831 3222 Email: info@jmoritausa.com

2. Composition / Data on components

Ingredients	%	Cas.No.	Symbols	R-phrases	OSHA PEL
Propylene glycohl	94	57-55-56	-	-	N/E
Cellulose	5	-	-	-	N/E
Initiator	1	-	-	-	N/E

(No dangerous components)

3. Hazard identification

Repeated prolonged contact may cause skin inflammation.

4. First aid measures

After skin contact	Wash with soap and plenty of water.
After eye contact	Wash immediately with plenty of water. Get medical attention.
After swallowing	Induce vomiting immediately. Get medical attention.

5. Fire fighting measures

Suitable extinguishing media	Chemical foam, carbon dioxide or dry chemical
Media not to be used	None
Combustion products and resulting gases	Irritant gas may be released during heating or in case of fire.
Special precaution firefighters	Use protective clothing and a self-contained breathing apparatus.

6. Accidental release measures

Personal protection	Not required
Environmental protection	Not required
Methods for cleaning up	Clean up with an inert absorbent.

7. Handling and storage

Handling	Use in a well ventilated place.
Storage	Store in a cool, dark place (0 ~ 25).

8. Exposure controls / personal protection

In general	Not required
Respiration protection	Not required
Hand protection	Wear suitable protective gloves.
Eye protection	Wear suitable protective glasses.
Skin protection	Wear suitable protective clothing.

9. Physical and chemical properties

Appearance	Bluish gel	Explosive properties	2.6 ~ 12.5%
Odour	Characteristic odour	Oxidizing properties	None
pH	Neutral	Vapor pressure	N/A
Boiling point	187	Relative density	N/A
Melting point	N/A	Solubility (water)	N/A
Flash point	99	Solubility (Solvent)	N/A
Flammability	None	Partition coefficient	N/A
Autoflammability	N/A	Others	

10. Stability and reactivity

Conditions to avoid	Heat, sparks and open flames
Materials to avoid	Strong oxidizing agents
Hazardous reactions	No hazardous reactions known

11. Toxicological information

Inhalation	-
Ingestion	No irritating effect
Skin contact	No irritating effect
Eye contact	No irritating effect
Carcinogenicity	N/R
Others	

13. Disposal consideration

Disposal must be made according to federal, state and local regulations.

Air transport	-
Sea transport	-
Inland transport	-

UN number	Not subject to this section
Air transport	-
Sea transport	-
Inland transport	-

14. Transport information

UN number 1170

Air transport Highly Flammable. See sction 2 and 9.

UN number	Not subject to this section
Air transport	-
Sea transport	-
Inland transport	-

15. Regulatory information

Marking according to EU regulations Not subject to the 67/548/EEC

16. Other information

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