

**HARDENER EPONAL 342**  
Supersedes Date: 03-May-2017

Revision Date 18-Jul-2017  
Version 2

## Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product Identifier

**Product Name** HARDENER EPONAL 342  
**Pure substance/mixture** Mixture

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

**Recommended use** Epoxy curing agent.  
**Uses advised against** None known.

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

#### Company Name

Bostik SA  
Immeuble "Le Jade"  
253 Avenue du President Wilson  
93211 La Plaine Saint Denis  
France  
Tel: +33 (0)1 55 99 90 00  
Fax: +33 (0)1 55 99 90 01

**E-mail address** SDS.box-EU@bostik.com

### 1.4. Emergency telephone number

**Emergency Telephone** No information available

## Section 2: HAZARD IDENTIFICATION

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

<b>Acute toxicity - Oral</b>	Category 4 - (H302)
<b>Acute toxicity - Inhalation (Vapours)</b>	Category 4 - (H332)
<b>Skin Corrosion/Irritation</b>	Category 1 Sub-category B - (H314)
<b>Serious eye damage/eye irritation</b>	Category 1 - (H318)
<b>Skin sensitisation</b>	Category 1 - (H317)
<b>Chronic aquatic toxicity</b>	Category 3 - (H412)

### 2.2. Label Elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Contains : Isophorone diamine, Benzyl alcohol, Benzyldimethylamine

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**Signal Word**  
DANGER

## Hazard statements

H302 - Harmful if swallowed  
H314 - Causes severe skin burns and eye damage  
H317 - May cause an allergic skin reaction  
H332 - Harmful if inhaled  
H412 - Harmful to aquatic life with long lasting effects

## Precautionary Statements - EU (§28, 1272/2008)

P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P260 - Do not breathe vapour  
P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P310 - Immediately call a POISON CENTER or doctor/physician  
P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting  
P501 - Dispose of contents/ container to an approved waste disposal plant

## Additional information

This product requires tactile warnings if supplied to the general public

## 2.3. Other Hazards

### General Hazards

No information available.

### PBT and vPvB assessment

This preparation contains no substance considered to be persistent, bio-accumulating nor toxic (PBT) or to be very persistent or very bioaccumulating (vPvB)

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Mixture

### 3.2 Mixtures

Chemical Name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	REACH Registration Number
Isophorone diamine	220-666-8	2855-13-2	>25 - <40	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Skin Corr. 1B (H314) Eye Dam. 1 (H318)		01-2119514687-32-XXXX

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				Skin Sens. 1 (H317) Aquatic Chronic 3 (H412)		
Benzyl alcohol	202-859-9	100-51-6	>25 - <40	Acute Tox. 4 (H302) Acute Tox. 4 (H332) Eye Irrit. 2 (H319)		01-2119492630-38 -XXXX
Benzyl dimethylamine	203-149-1	103-83-3	5 - <10	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 3 (H331) Skin Corr. 1B (H314) Aquatic Chronic 3 (H412) Flam. Liq. 3 (H226)		01-2119529232-48 -XXXX

Full text of H- and EUH-phrases: see section 16

Note: ^ indicates not classified, however, the substance is listed in section 3 as it has an OEL.

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## Section 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

<b>General Advice</b>	Remove/Take off immediately all contaminated clothing. If medical advice is needed, have product container or label at hand.
<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water. Get medical attention if symptoms occur.
<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Hold eyelids apart and consult an physician.
<b>Ingestion</b>	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. If swallowed, rinse mouth with water (only if the person is conscious).
<b>Self-protection of the first aider</b>	First aider: Pay attention to self-protection.

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

**Symptoms** None known.

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

**Note to doctors** None.

## Section 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing media

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## **Suitable Extinguishing Media**

Carbon dioxide (CO<sub>2</sub>). Extinguishing powder. Water spray or fog. Alcohol resistant foam.

## **Unsuitable Extinguishing Media**

Full water jet

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

Thermal decomposition can lead to release of toxic/corrosive gases and vapours. Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>). Ammonia.

## **5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus. Do not allow run-off from fire-fighting to enter drains or water courses.

## **Section 6: ACCIDENTAL RELEASE MEASURES**

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

#### **Personal Precautions**

Avoid contact with skin, eyes or clothing. Use personal protection equipment. Avoid breathing vapours or mists.

#### **For emergency responders**

Use personal protection recommended in Section 8.

### **6.2. Environmental precautions**

Prevent entry into waterways, sewers, basements or confined areas. Do not allow to enter into soil/subsoil.

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

#### **Methods for Containment**

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

#### **Methods for cleaning up**

Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Use personal protective equipment as required. Dam up. Cover liquid spill with sand, earth or other non-combustible absorbent material. Soak up with inert absorbent material. After cleaning, flush away traces with water.

### **6.4. Reference to other sections**

#### **Reference to other sections**

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION  
Section 13: DISPOSAL CONSIDERATIONS

## **Section 7: HANDLING AND STORAGE**

### **7.1. Precautions for safe handling**

#### **Advice on safe handling**

Use only in well-ventilated areas. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Special Precautions. For mixing of both components: Please refer also to Safety Data Sheet of Part B. For application method and dose rate, refer to the technical data sheet. Important: Do not leave mixed material in the container - curing in bulk can lead to excessive heat. Fire prevention measures. No special measures are necessary.

#### **General Hygiene Considerations**

Avoid contact with skin, eyes or clothing. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off immediately all contaminated clothing and wash it before reuse.

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

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## Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from food, drink and animal feedingstuffs.

## 7.3. Specific end use(s)

### Specific Use(s)

Hardener.

## OTHER INFORMATION

Recommendation(s). Observe technical data sheet.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Only European Community Occupational Exposure Limits will be shown in this document. Please refer to regional SDS for further information.

**Derived No Effect Level (DNEL)** No information available

**Predicted No Effect Concentration (PNEC)** No information available.

### 8.2. Exposure controls

**Engineering Controls** Provide local exhaust ventilation. in the case of spray application. Please refer also to Safety Data Sheet of Part A.

### Personal Protective Equipment

#### Eye/Face Protection

Wear safety glasses with side shields (or goggles). Wear chemical splash goggles and face shield when eye and face contact is possible due to splashing or spraying of material.

#### Hand Protection

Wear suitable gloves. Gloves must conform to standard EN 374. Recommended Use: Nitrile rubber. Butyl rubber. Unsuitable protective clothing. Leather. Disposable gloves. Break through time. The breakthrough time of the gloves depends on the material and the thickness as well as the temperature. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves.

#### Skin and Body Protection

Wear suitable protective clothing.

#### Respiratory Protection

In case of inadequate ventilation wear respiratory protection. During spraying wear suitable respiratory equipment. For short term use: Filtering device (DIN EN 147).

#### Recommended Filter type:

Wear a respirator conforming to EN 140 with Type A/P2 filter or better.

**Environmental Exposure Controls** Do not allow uncontrolled discharge of product into the environment.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

<b>Physical State</b>	Liquid
<b>Appearance</b>	Liquid
<b>Colour</b>	Colourless
<b>Odour</b>	Ammonia
<b>Odour Threshold</b>	No information available

### Property

#### Values

#### Remarks • Method

<b>pH</b>	No information available	
<b>Melting point/freezing point</b>	No information available	
<b>Boiling Point</b>	> 100 °C / 212 °F	
<b>Flash Point</b>	> 107 °C / > 224.6 °F	CC (closed cup)
<b>Evaporation Rate</b>	No information available	

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<b>Flammability (solid, gas)</b>	No information available	Not applicable for liquids
<b>Flammability Limit in Air</b>		
Upper Flammability Limit	No information available	
Lower Flammability Limit	No information available	
<b>Vapour Pressure</b>	No information available	
<b>Vapour Density</b>	No information available	
<b>Relative Density</b>	0.98 - 1.02	
<b>Water Solubility</b>	Insoluble in water	
<b>Solubility in Other Solvents</b>	Completely soluble: Acetone, Methyl ethyl ketone, Xylenes	
<b>Partition Coefficient</b>	No information available	
<b>Autoignition Temperature</b>	No information available	
<b>Decomposition Temperature</b>	No information available	
<b>Explosive Properties</b>	No information available	
<b>Explosive Limits</b>	No information available	
Upper	No information available	
Lower	No information available	
<b>Oxidising Properties</b>	No information available	
<b>Kinematic Viscosity</b>	No information available	
<b>Dynamic Viscosity</b>	70 - 130 mPa s	@ 23 °C
<b>9.2. Other information</b>		
<b>Softening Point</b>	No information available	
<b>Molecular Weight</b>	No information available	
<b>Solvent content (%)</b>	No information available	
<b>Solid content (%)</b>	No information available	
<b>Density</b>	No Data Available	
<b>Bulk Density</b>	No Data Available	
<b>VOC content (%)</b>		

## Section 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

None under normal use conditions.

### 10.2. Chemical stability

Stable under normal conditions.

#### Explosion Data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

### 10.3. Possibility of hazardous reactions

#### Possibility of Hazardous Reactions

After mixing the two components, the curing reaction starts. In bulk this reaction can be vigorous.

### 10.4. Conditions to avoid

None known if handled according to instructions.

### 10.5. Incompatible materials

Exothermic reaction with. Acids.

### 10.6. Hazardous decomposition products

None under normal use and recommended storage conditions. Thermal decomposition can lead to release of toxic/corrosive gases and vapours. Ammonia. Amines.

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## Section 11: TOXICOLOGY INFORMATION

### 11.1. Information on toxicological effects

#### Information on likely routes of exposure

##### Product Information

No information or data specific to the product on this toxicological (health) effect is available.

<b>Inhalation</b>	No Data Available.
<b>Eye contact</b>	No Data Available.
<b>Skin Contact</b>	No Data Available.
<b>Ingestion</b>	No Data Available.
<b>Sensitisation</b>	May cause sensitisation by skin contact. People who suffer from skin sensitisation problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this preparation.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Skin Corrosion/Irritation</b>	Irritant effect on the skin.
<b>Serious eye damage/eye irritation</b>	Irritant effect on the eyes. Causes severe eye damage.
<b>Sensitisation</b>	Not applicable.
<b>Germ Cell Mutagenicity</b>	Not applicable.
<b>Carcinogenicity</b>	Not applicable.
<b>Reproductive Toxicity</b>	No information available.
<b>STOT - Single Exposure</b>	No information available.
<b>STOT - Repeated Exposure</b>	No information available.
<b>Aspiration Hazard</b>	Not applicable.

#### Numerical measures of toxicity

##### Acute Toxicity

The following values are calculated based on chapter 3.1 of the GHS document

<b>ATEmix (oral)</b>	1,485.00 mg/kg
<b>ATEmix (dermal)</b>	2,775.00 mg/kg
<b>ATEmix (inhalation-dust/mist)</b>	4.47 mg/l
<b>ATEmix (inhalation-vapour)</b>	18.00 mg/l

#### Component Information

**Toxicity Data** Data obtained on the component(s) include

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Benzyl alcohol 100-51-6	LD50 = 1620 mg/kg (Rat)	= 2 g/kg ( Rabbit )	= 4.17 mg/L ( Rat ) 4 h
Isophorone diamine 2855-13-2	= 1040 mg/kg ( Rat )	LD50 > 2000 mg/kg (Rat) OECD 402 LD50 = 1840 mg/kg (Rabbit)	-
Benzyl dimethylamine 103-83-3	= 579 mg/kg ( Rat )	= 1660 mg/kg ( Rabbit )	LC50 (4h) = 2.052 mg/L (Rat)

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## Section 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

**Ecotoxicity** Harmful to aquatic life with long lasting effects

### Component Information

Data obtained on the component(s) include

Chemical Name	Algae/aquatic plants	Fish	Crustacea	M-Factor
Isophorone diamine 2855-13-2	EC50 72 h = 37 mg/L (Desmodesmus subspicatus)	LC50 96 h = 110 mg/L (Leuciscus idus semi-static)	EC50 24 h = 42 mg/L (Daphnia magna ) EC50 48 h 14.6 - 21.5 mg/L (Daphnia magna semi-static)	
Benzyl alcohol 100-51-6	EC 50 (72h) = 700 mg/L (Pseudokirchnerella subcapitata) OECD 201	LC50 96 h = 460 mg/L (Pimephales promelas static)	EC50 48 h = 230 mg/L (water flea )	
Benzyl dimethylamine 103-83-3	-	LC50 96 h 35.8 - 39.9 mg/L (Pimephales promelas flow-through)	-	

### 12.2. Persistence and degradability

No information available.

### 12.3. Bioaccumulative potential

No information available.

**Partition coefficient** No information available

### 12.4. Mobility in soil

**Mobility in soil** No information available.

### 12.5. Results of PBT and vPvB assessment

This preparation contains no substance considered to be persistent, bio-accumulating nor toxic (PBT). or to be very persistent or very bioaccumulating (vPvB).

### 12.6. Other Adverse Effects

No information available

### Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors.

## Section 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

**Waste from Residues/Unused Products** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging** Handle contaminated packages in the same way as the product itself.

**OTHER INFORMATION** Waste codes should be assigned by the user based on the application for which the



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product was used.

## Section 14: TRANSPORTATION INFORMATION

### ADR

14.1 UN/ID no	UN3267
14.2 Proper Shipping Name	Corrosive liquid, basic, organic, n.o.s (Isophorone diamine, Benzyldimethylamine)
14.3 Hazard Class	8
Hazard Labels	8
14.4 Packing Group	III
Description	UN3267, Corrosive liquid, basic, organic, n.o.s (Isophorone diamine, Benzyldimethylamine), 8, III, (E)
14.5 Environmental Hazard	Not applicable
14.6 Special Provisions	274
Classification Code	C7
Tunnel restriction code	(E)
Limited Quantity (LQ)	5 L
ADR Hazard Id (Kemmler Number)	80

### IMDG

14.1 UN/ID no	UN3267
14.2 Proper Shipping Name	Corrosive liquid, basic, organic, n.o.s (Isophorone diamine, Benzyldimethylamine)
14.3 Hazard Class	8
14.4 Packing Group	III
Description	UN3267, Corrosive liquid, basic, organic, n.o.s (Isophorone diamine, Benzyldimethylamine), 8, III
14.5 Marine Pollutant	Np
14.6 Special Provisions	223, 274
Limited Quantity (LQ)	5 L
EmS-No	F-A, S-B
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No information available

### RID

14.1 UN/ID no	UN3267
14.2 Proper Shipping Name	Corrosive liquid, basic, organic, n.o.s (Isophorone diamine, Benzyldimethylamine)
14.3 Hazard Class	8
Hazard Labels	8
14.4 Packing Group	III
Description	UN3267, Corrosive liquid, basic, organic, n.o.s (Isophorone diamine, Benzyldimethylamine), 8, III
14.5 Environmental Hazard	Not applicable
Classification Code	C7
14.6 Special Provisions	274
Limited Quantity (LQ)	5 L

### ICAO (air)

14.1 UN/ID no	UN3267
14.2 Proper Shipping Name	Corrosive liquid, basic, organic, n.o.s (Isophorone diamine, Benzyldimethylamine)
14.3 Hazard Class	8
14.4 Packing Group	III
Description	UN3267, Corrosive liquid, basic, organic, n.o.s (Isophorone diamine, Benzyldimethylamine), 8, III
14.5 Environmental Hazard	Not applicable
14.6 Special Provisions	A3

### IATA

14.1 UN/ID no	UN3267
14.2 Proper Shipping Name	Corrosive liquid, basic, organic, n.o.s (Isophorone diamine, Benzyldimethylamine)
14.3 Hazard Class	8
14.4 Packing Group	III
Description	UN3267, Corrosive liquid, basic, organic, n.o.s (Isophorone diamine,

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14.5 Environmental Hazard Benzyldimethylamine), 8, III  
Not applicable  
14.6 Special Provisions A3, A803  
Limited Quantity (LQ) 1 L  
ERG Code 8L

## Section 15: REGULATORY INFORMATION

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

#### European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Check whether measures in accordance with Directive 94/33/EC for the protection of young people at work must be taken.

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

#### Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

##### **EU-REACH (1907/2006) - Candidate List of Substances of Very High Concern (SVHC) for Authorization in accordance with Article 59**

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

##### **EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction**

This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

##### **EU-REACH (1907/2006) - Annex XIV - List of substances subject to Authorization**

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

#### **Ozone-depleting substances (ODS) regulation (EC) 1005/2009**

Not applicable

#### **Persistent Organic Pollutants**

Not applicable

#### National Regulations

##### France

#### **Occupational Illnesses (R-463-3, France)**

Chemical Name	French RG number
Isophorone diamine 2855-13-2	RG 49, RG 49bis, RG 66
Benzyl alcohol 100-51-6	RG 84

##### Germany

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**Ordinance on Industrial Safety and Health - Germany - BetrSichV**  
No flammable liquids in accordance with BetrSichV

## Netherlands

**List of Carcinogenic, mutagenic and reproductive toxin substances in accordance with Inspectorate SZW (Netherlands)**  
Not Listed

## 15.2. Chemical safety assessment

No information available

## **Section 16: OTHER INFORMATION**

### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Full text of H-Statements referred to under section 3

H302 - Harmful if swallowed  
H332 - Harmful if inhaled  
H319 - Causes serious eye irritation  
H312 - Harmful in contact with skin  
H331 - Toxic if inhaled  
H314 - Causes severe skin burns and eye damage  
H412 - Harmful to aquatic life with long lasting effects  
H226 - Flammable liquid and vapour  
H318 - Causes serious eye damage  
H317 - May cause an allergic skin reaction

#### **Legend**

SVHC: Substances of Very High Concern for Authorisation:

#### **Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

PBT Persistent, Bioaccumulative, and Toxic (PBT) Chemicals  
STOT (RE): Specific target organ toxicity - Repeated exposure  
STOT (SE): Specific target organ toxicity - Single exposure  
EWC: European Waste Catalogue

#### **Key literature references and sources for data**

Classification and labeling data calculated from data received from raw material suppliers

**Prepared By** Product Safety & Regulatory Affairs

**Revision Date** 18-Jul-2017

#### Indication of changes

**Revision Note** SDS sections updated: 2, 3, 11.

**Training Advice** When working with hazardous materials, regular training of operators is required by law

**Additional information** No information available

**This safety data sheet complies with the requirements of: Regulation (EC) No. 1907/2006**

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of

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its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**