# **HALLIBURTON**

# SAFETY DATA SHEET BARACOR® 100

Revision Date: 21-Jan-2016 Revision Number: 51

# 1. Product and Company Identification

**Product Name** 

Product Trade Name: BARACOR® 100

Other Names

Synonyms: None Product Code: HM003391

Recommended Use

Recommended Use Corrosion Inhibitor
Uses Advised Against No information available

Company Name, Address and Contact Details

Manufacturer/Supplier Halliburton New Zealand

1 Paraite Rd,

Bell Block, New Plymouth

New Zealand Registration No.: 824207

E-Mail address: fdunexchem@halliburton.com

Emergency Telephone Number +64 800 451719

**New Zealand National Poisons** 

Centre

0800 764 766 (24 hours)

## 2. Hazard(s) Identification

## **Statement of Hazardous Nature**

Classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulation 2001; Classified as dangerous good according to NZS 5433:2012, UN, IMDG or IATA

# Classification

- 3.1C Flammable Liquids Medium hazard
- 6.1D (Oral) Acutely Toxic Substances
- 6.1D (Dermal) Acutely Toxic Substances
- 8.2C Corrosive to dermal tissue if exposed for greater than 1 hour
- 8.3A Corrosive to ocular tissue
- 6.7B Suspected human carcinogens
- 6.9A Toxic to human target organs or systems
- 9.3C Harmful to terrestrial vertebrates

## **Hazard and Precautionary Statements**

## **Hazard Pictograms**



Signal Word

Danger

**Hazard Statements** 

H226 - Flammable liquid and vapor

H302 - Harmful if swallowed

H312 - Harmful in contact with skin

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage H351 - Suspected of causing cancer

H361 - Suspected of damaging fertility or the unborn child

H370 - Causes damage to organs

H433 - Harmful to the terrestrial vertebrates.

## **Precautionary Statements**

Prevention

P101 - If medical advice is needed, have product container or label at hand

P102 - Keep out of reach of children

P103 - Read label before use

P104 - Read Safety Data Sheet before use. P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P233 - Keep container tightly closed

P240 - Ground/Bond container and receiving equipment

P241 - Use explosion-proof electrical/ventilating/lighting/equipment

P242 - Use only non-sparking tools

P243 - Take precautionary measures against static discharge P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P264 - Wash face, hands and any exposed skin thoroughly after handling

P270 - Do not eat, drink or smoke when using this product
P280 - Wear protective gloves/eye protection/face protection
P281 - Use personal protective equipment as required

Response

P301+ P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel

unwell

P330 - Rinse mouth

P331 - Do NOT induce vomiting

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water/shower

P363 - Wash contaminated clothing before reuse

P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position

comfortable for breathing

P310 - Immediately call a POISON CENTER or doctor/physician

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing

Storage P403 + P235 - Store in a well-ventilated place. Keep cool

P405 - Store locked up

Disposal P501 - Dispose of contents/container in accordance with

local/regional/national/international regulations

**Contains** 

Substances	CAS Number	Substance HSNO Classification
Ethanol, 2,2'-oxybis-, reaction products with	68909-77-3	6.1D (oral)

ammonia, morpholine derivatives residues		8.2C 8.3A 9.3C
Methanol	67-56-1	3.1B 6.1C (Oral) 6.1C (Dermal) 6.1C (Inhalation) 6.4A 6.8B 6.9A (Inhalation) 9.3C
Nitrilotriacetic acid, trisodium salt monohydrate	5064-31-3	6.1D (oral) 6.1E (inhalation) 6.7B 8.2C 8.3A; 9.3C

#### 2.3. Other Hazards

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

# 3. Composition and Information on Ingredients

Substances	CAS Number	PERCENT (w/w)
Ethanol, 2,2'-oxybis-, reaction products with ammonia, morpholine derivatives residues	68909-77-3	10 - 30%
Methanol	67-56-1	10 - 30%
Nitrilotriacetic acid, trisodium salt monohydrate	5064-31-3	1 - 5%

## 4. First-Aid Measures

## **Requirements for First Aid or Medical Care**

**Inhalation** If inhaled, move victim to fresh air and seek medical attention.

Eyes Immediately flush eyes with large amounts of water for at least 30 minutes. Seek prompt

medical attention.

Skin In case of contact, immediately flush skin with plenty of soap and water for at least 15

minutes. Get medical attention. Remove contaminated clothing and launder before

reuse.

**Ingestion** Do NOT induce vomiting. Give nothing by mouth. Obtain immediate medical attention.

## Workplace Facilities Required

None

#### Relation to Health Effect

## Most Important Symptoms/Effects

Causes severe eye irritation which may damage tissue. Harmful if swallowed. Causes skin irritation. May cause allergic skin reaction. May be harmful in contact with skin. Potential carcinogen. Potential reproductive hazard. May cause birth defects. May cause damage to internal organs.

## Medical Attention and Special Treatment

Notes to Physician
Treat symptomatically

## 5. Fire-fighting measures

# Type of Hazard Flammability Hazard

Flammable Liquid

## 5.1. Extinguishing media

Suitable Extinguishing Media

Water fog, carbon dioxide, foam, dry chemical.

Extinguishing media which must not be used for safety reasons

None known.

**HAZCHEM Code** 

Hazchem Code: 3WE

## Special Protective Equipment and Precautions for Fire Fighters

#### **Special Protective Equipment for Fire-Fighters**

Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

#### **Special Exposure Hazards**

May be ignited by heat, sparks or flames. Use water spray to cool fire exposed surfaces. Closed containers may explode in fire. Decomposition in fire may produce harmful gases. Runoff to sewer may cause fire or explosion hazard.

## 6. Spillage, Accidental Release Measures

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

Remove sources of ignition. Use appropriate protective equipment. Wear self-contained breathing apparatus in enclosed areas. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid breathing vapors. Evacuate all persons from the area.

See Section 8 for additional information

#### 6.2. Environmental precautions

Prevent from entering sewers, waterways, or low areas. Consult local authorities.

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

Isolate spill and stop leak where safe. Remove ignition sources and work with non-sparking tools. Contain spill with sand or other inert materials. Scoop up and remove.

## 6.4. Reference to other sections

See Section 8 and 13 for additional information.

## 7. Handling and storage

#### 7.1. Precautions for Safe Handling

#### **Handling Precautions**

Remove sources of ignition. Avoid contact with eyes, skin, or clothing. Avoid breathing vapors. Ensure adequate ventilation. Wash hands after use. Launder contaminated clothing before reuse. Ground and bond containers when transferring from one container to another. Use appropriate protective equipment.

## **Handling Practices**

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice.

## **Approved Handlers**

This product does NOT require an approved handler.

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

Store away from oxidizers. Keep from heat, sparks, and open flames. Keep container closed when not in use. Product has a shelf life of 24 months.

Product is incompatible with: Class 1 (explosives)

Class 2 (flammable gases, aerosols)
Class 3.2 (liquid desensitised explosives)

Class 4 (readily combustible, self-reactive, solid desensitised explosives, spontaneously

combustible, dangerous when wet)

Class 6 (toxic)

### Store Site Requirements

No special controls required

#### Packaging

No special packaging required

## 8. Exposure Controls and Personal Protection

## Workplace Exposure Standards

**Exposure Limits** 

Substances	CAS Number	New Zealand WES	ACGIH TLV-TWA
Ethanol, 2,2'-oxybis-, reaction products with ammonia, morpholine derivatives residues	68909-77-3	Not applicable	Not applicable
Methanol			TWA: 200 ppm STEL: 250 ppm
Nitrilotriacetic acid, trisodium salt monohydrate	5064-31-3	Not applicable	Not applicable

**Engineering Controls** 

Engineering Controls Use in a well ventilated area. Local exhaust ventilation should be used in areas without

good cross ventilation.

**Personal Protective Equipment (PPE)** 

Respiratory Protection If engineering controls and work practices cannot keep exposure below occupational

exposure limits or if exposure is unknown, wear a NIOSH certified, European Standard EN 149, AS/NZS 1715:2009, or equivalent respirator when using this product. Selection of and instruction on using all personal protective equipment, including respirators, should be performed by an Industrial Hygienist or other qualified professional. Positive pressure self-contained breathing apparatus if methanol is released.

Hand Protection Chemical-resistant protective gloves (EN 374) Suitable materials for longer, direct

contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): Neoprene gloves. Nitrile gloves. Butyl rubber gloves. (>= .? mm

thickness)

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced. Manufacturer's directions for use should be

observed because of great diversity of types.

**Skin Protection** Rubber apron.

Eye Protection Chemical goggles; also wear a face shield if splashing hazard exists.

Other Precautions Eyewash fountains and safety showers must be easily accessible.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

# 9. Physical and Chemical Properties

Values

9.1. Information on basic physical and chemical properties

Physical State: Liquid Color: Brown

Odor: Alcohol Odor Threshold: No information available

Property

Remarks/ - Method

pH: 9-11 Freezing Point/Range -23 °C

Melting Point/RangeNo data availableBoiling Point/Range100 °C / 212 °FFlash Point33 °C / 92 °F PMCC

upper flammability limit 36% lower flammability limit 6% Evaporation rate 1.6

Vapor Pressure No data available

Vapor Density> 1Specific Gravity1.01

Water Solubility Soluble in water Solubility in other solvents No data available

Partition coefficient: n-octanol/water -0.84

Autoignition TemperatureNo data availableDecomposition TemperatureNo data availableViscosityNo data availableExplosive PropertiesNo information available

Oxidizing Properties No information available

## 9.2. Other information

VOC Content (%) No data available

## 10. Stability and Reactivity

## 10.2. Chemical Stability

Stable

## 10.4. Conditions to Avoid

Keep away from heat, sparks and flame.

### 10.5. Incompatible Materials

Strong oxidizers.

Product is incompatible with: Class 1 (explosives)

Class 2 (flammable gases, aerosols) Class 3.2 (liquid desensitised explosives)

Class 4 (readily combustible, self-reactive, solid desensitised explosives, spontaneously

combustible, dangerous when wet)

Class 6 (toxic)

#### 10.6. Hazardous Decomposition Products

Ammonia. Oxides of nitrogen. Carbon monoxide and carbon dioxide.

**Hazardous Reactions** 

Hazardous Polymerization: Will Not Occur

## 11. Toxicological Information

### Health Effect from Likely Routes of Exposure

**Acute Toxicity** 

Inhalation May cause respiratory irritation. May cause central nervous system depression including

headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech,

giddiness and unconsciousness.

**Eye Contact** Causes serious eye damage.

**Skin Contact**Causes skin irritation. May cause an allergic skin reaction. May be harmful in contact

with skin. May be absorbed through the skin.

**Ingestion** Harmful if swallowed.

Chronic Effects/Carcinogenicity Prolonged or repeated exposure may cause eye, blood, lung, liver, kidney, heart, central

nervous system and spleen damage. Contains nitrilotriacetic acid or its salts, which is NTP Classification 2 (Reasonably Anticipated to be a Human Carcinogen) and IARC

Classification 2B (a Possible Human Carcinogen)

#### **Toxicity Data**

#### Toxicology data for the components

Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethanol, 2,2'-oxybis-, reaction products with ammonia, morpholine derivatives residues	68909-77-3	3816 mg/kg-bw (rat)	> 2000 mg/kg (Rat)	No toxicity at saturation (rat, 8 h, vapour)
Methanol	67-56-1	< 790 mg/kg (rat) 7300 mg/kg (mouse) 14200 mg/kg (rabbit) 300 mg/kg (Human) 6200 mg/kg (Rat)	15800 mg/kg (Rabbit) 393 mg/kg bw (primates) 1000 mg/kg (Human) 15800 mg/kg (Rabbit)	10 mg/L (Human) 4h (vapor) 22,500 ppm (Rat) 8h 64,000 ppm (Rat) 4h 83.2 mg/L (rat) 4h 128.8 mg/L (rat) 4h
Nitrilotriacetic acid, trisodium salt monohydrate	5064-31-3	1740 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5 mg/L (Rat, Aerosol, 4h)

Substances	CAS Number	Skin corrosion/irritation
Ethanol, 2,2'-oxybis-, reaction products with ammonia, morpholine derivatives residues	68909-77-3	Causes moderate skin irritation. (Rabbit) Skin, rabbit:
Methanol	67-56-1	Non-irritating to the skin (Rabbit)
Nitrilotriacetic acid, trisodium salt monohydrate	5064-31-3	Non-irritating to the skin (Rabbit) Not irritating to skin in rabbits. Skin, rabbit:

Substances	CAS Number	Eye damage/irritation
Ethanol, 2,2'-oxybis-, reaction products with ammonia, morpholine derivatives residues	68909-77-3	Causes eye burns. Causes severe eye irritation. Will damage tissue.
Methanol	67-56-1	Non-irritating to the eye (Rabbit)
Nitrilotriacetic acid, trisodium salt monohydrate	5064-31-3	Irritating to eyes. (Rabbit) Eye, rabbit: Causes moderate eye irritation.

Substances	CAS Number	Skin Sensitization
Ethanol, 2,2'-oxybis-, reaction products with ammonia, morpholine derivatives residues	68909-77-3	May cause sensitization by skin contact (mouse)
Methanol	67-56-1	Did not cause sensitization on laboratory animals (guinea pig)
Nitrilotriacetic acid, trisodium salt monohydrate	5064-31-3	Did not cause sensitization on laboratory animals (guinea pig)

Substances	CAS	Respiratory Sensitization
	Number	
Ethanol, 2,2'-oxybis-, reaction products with ammonia, morpholine derivatives residues	68909-77-3	No information available
Methanol	67-56-1	No information available
Nitrilotriacetic acid,	5064-31-3	No information available
trisodium salt monohydrate		

Substances	CAS Number	Mutagenic Effects
Ethanol, 2,2'-oxybis-, reaction products with ammonia, morpholine derivatives residues	68909-77-3	In vitro tests did not show mutagenic effects. In vivo tests did not show mutagenic effects.
Methanol		The weight of evidence from available in vitro and in vivo studies indicates that this substance is not expected to be mutagenic.
Nitrilotriacetic acid, trisodium salt monohydrate		Not regarded as mutagenic. In vivo tests did not show mutagenic effects. In vitro tests did not show mutagenic effects

Substances	CAS Number	Carcinogenic Effects
Ethanol, 2,2'-oxybis-, reaction products with ammonia, morpholine derivatives residues	68909-77-3	No information available.
Methanol	67-56-1	No data of sufficient quality are available.
Nitrilotriacetic acid, trisodium salt monohydrate		Contains nitrilotriacetic acid or its salts, which is listed as a suspect carcinogen of the urinary tract and kidneys by NTP, based on feeding studies with laboratory animals. According to the ACGIH guidelines, NTA would "not be considered an occupational carcinogen of any significance." IARC cancer review classification: 2B (Possibly Carcinogenic to Humans)  Available data indicate that this substance is a suspected carcinogen.

Substances	CAS	Reproductive toxicity
	Number	
Ethanol, 2,2'-oxybis-, reaction products with ammonia, morpholine derivatives residues		Animal testing did not show any effects on fertility. Did not show teratogenic effects in animal experiments.
Methanol	67-56-1	Experiments have shown reproductive toxicity effects on laboratory animals
Nitrilotriacetic acid,	5064-31-3	Animal testing did not show any effects on fertility. Did not show teratogenic effects in animal
trisodium salt monohydrate		experiments.

Substances	CAS Number	STOT - single exposure
Ethanol, 2,2'-oxybis-, reaction products with ammonia, morpholine derivatives residues	68909-77-3	No significant toxicity observed in animal studies at concentration requiring classification.
Methanol	67-56-1	May cause disorder and damage to the Central Nervous System (CNS)
Nitrilotriacetic acid, trisodium salt monohydrate	5064-31-3	No significant toxicity observed in animal studies at concentration requiring classification.

	CAS Number	STOT - repeated exposure
Ethanol, 2,2'-oxybis-, reaction products with ammonia, morpholine derivatives residues	68909-77-3	No significant toxicity observed in animal studies at concentration requiring classification.
Methanol	67-56-1	No data of sufficient quality are available.
Nitrilotriacetic acid, trisodium salt monohydrate	5064-31-3	No significant toxicity observed in animal studies at concentration requiring classification.

Substances	CAS	Aspiration hazard
	Number	
Ethanol, 2,2'-oxybis-, reaction products with ammonia, morpholine derivatives residues	68909-77-3	Not applicable
Methanol	67-56-1	Not applicable
Nitrilotriacetic acid, trisodium salt monohydrate	5064-31-3	Not applicable

# 12. Ecological Information

# 12.1. Toxicity Ecotoxicity Effects

## **Product Ecotoxicity Data**

No data available

Substance Ecotoxicity Data

Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Toxicity to Invertebrates
Ethanol, 2,2'-oxybis-, reaction products with ammonia, morpholine derivatives residues	68909-77-3	EC50 (72 h) =100 mg/L (Skeletonema costatum) EC50 (72 h) >120 mg/L (Desmodesmus subspicatus) NOEC (72 h) >120 mg/L (Desmodesmus subspicatus)	LC50 (96 h) >100 mg/L (Scophthalmus maximus) LC50 (96 h) =681.1 mg/L (Leuciscus idus)	EC50 (3h) > 1000 mg/L (activated sludge)	LC50 (48 h) =287.2 mg/L (Acartia tonsa) EC50 (48 h) >120 mg/L (Daphnia Magna)
Methanol	67-56-1	ErC50 (96h) 22000 mg/L (Pseudokirchnerella subcapitata)	LC50 28200 mg/L (Pimephales promelas) LC50 (96h) 12700 – 15400 mg/L (Lepomis macrochirus)	IC50 (3h) > 1000 mg/L (activated sludge)	EC50 (96h) 18260 mg/L (Daphnia magna) NOEC (21d) 122 mg/L (Daphnia magna, Reproduction)
Nitrilotriacetic acid, trisodium salt monohydrate	5064-31-3	EC50 (72 h) >91.5 mg/L (Desmodesmus subspicatus)	TL50 (96 h) =103 mg/L (Pimephales promelas) NOEC (229 d) >54 mg/L (Pimephales promelas)	NOEC (90d) >200 mg/L (activated sludge)	TL50 (96 h) range115 mg/L (Gammarus pseudolimnaeus) NOEC (147 d) =9.3 mg/L (Gammarus pseudolimnaeus)

## 12.2. Persistence and degradability

Not readily biodegradable

Not rodally bloadgradable				
Substances	CAS Number	Persistence and Degradability		
Ethanol, 2,2'-oxybis-, reaction products with	68909-77-3			
ammonia, morpholine derivatives residues				
Methanol	67-56-1	(95-97% @ 20d)		
Nitrilotriacetic acid, trisodium salt monohydrate	5064-31-3	Readily biodegradable (100 @ 14d)		

## 12.3. Bioaccumulative potential

Does not bioaccumulate.

Substances	CAS Number	Log Pow
Ethanol, 2,2'-oxybis-, reaction products with	68909-77-3	Log Pow <1
ammonia, morpholine derivatives residues		
Methanol	67-56-1	-0.77
		BCF = 1.0 – 4.5 (Cyprinus carpio)
		BCF < 10 (Leuciscus idus melanotus)
Nitrilotriacetic acid, trisodium salt monohydrate	5064-31-3	-2.62 (calculated)

## 12.4. Mobility in soil

Substances	CAS Number	Mobility
Ethanol, 2,2'-oxybis-, reaction products with ammonia,	68909-77-3	No information available
morpholine derivatives residues		
Methanol	67-56-1	No information available
Nitrilotriacetic acid, trisodium salt monohydrate	5064-31-3	No information available

#### **Ecotoxicity Hazard Statements**

None known

### 12.6. Other adverse effects

## **Endocrine Disruptor Information**

This product does not contain any known or suspected endocrine disruptors

## 13. Disposal Considerations

#### 13.1. Waste treatment methods

Disposal Method Contaminated Packaging Disposal should be made in accordance with federal, state, and local regulations. Follow all applicable national or local regulations. Contaminated packaging may be disposed of by: rendering packaging incapable of containing any substance, or treating packaging to remove residual contents, or treating packaging to make sure the residual contents are no longer hazardous, or by disposing of packaging into commercial waste collection.

# 14. Transport Information

IMDG/IMO

UN Number: UN1993

**UN Proper Shipping Name:** Flammable Liquid, N.O.S. (Contains Methanol)

Transport Hazard Class(es): 3
Packing Group: |||

Environmental Hazards: Not applicable EmS F-E, S-E

NZ 5433.1999

UN Number: UN1993

**UN Proper Shipping Name:** Flammable Liquid, N.O.S. (Contains Methanol)

Transport Hazard Class(es): 3
Packing Group: |||

IATA/ICAO

Chemicals

UN Number: UN1993

**UN Proper Shipping Name:** Flammable Liquid, N.O.S. (Contains Methanol)

Transport Hazard Class(es): 3
Packing Group: |||

Special Precautions for User: None

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

## 15. Regulatory Information

**New Zealand Inventory of** 

All components are listed on the AICS or are subject to a relevant exemption, permit, or

assessment certificate.

HSNO Approval Number HSR002497

**Group Name** Flammable, Corrosive, Toxic [6.7] (HSR002497)

HSNO Controls Refer to the NZ EPA website for more information: http://www.epa.govt.nz

Approved Handlers Not Applicable

Poisons Schedule: S6

#### 16. Other information

# The following sections have been revised since the last issue of this SDS

Not applicable

Additional information For additional information on the use of this product, contact your local Halliburton

representative.

For questions about the Safety Data Sheet for this or other Halliburton products, contact

Chemical Stewardship at 1-580-251-4335.

## Key or legend to abbreviations and acronyms

bw – body weight CAS – Chemical Abstracts Service EC50 – Effective Concentration 50% LC50 – Lethal Concentration 50% LD50 – Lethal Dose 50% LL50 – Lethal Loading 50% MARPOL – International Convention for the Prevention of Pollution from Ships mg/kg – milligram/kilogram mg/L – milligram/liter NOEC – No Observed Effect Concentration OEL – Occupational Exposure Limit ppm – parts per million TWA – Time-Weighted Average VOC – Volatile Organic Carbon C - Celsius IATA/ICAO - International Air Transport Association / International Civil Aviation Organization IMDG/IMO - International Maritime Dangerous Goods / International Maritime Organization mg/m³ - milligram/cubic meter mm - millimeter mmHg - millimeter mercury w/w - weight/weight d - day

#### Key literature references and sources for data

www.ChemADVISOR.com/ NZ CCID

Revision Date: 21-Jan-2016

Revision Note

SDS sections updated:

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## **Disclaimer Statement**

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**End of Safety Data Sheet**