

# SAFETY DATA SHEET

## 1. Product and Company Identification

Product identifier tb Minuteman Hard Surface Disinfectant

Other means of identification

Not available

Recommended use

Hard Surface Disinfectant

Recommended restrictions

None known. maxill Inc.

Manufacturer information

80 Elm Street

St. Thomas, ON N5R 6C8 CA Phone: 519-631-7370 Fax: 519-631-3388 Website: maxill.com CHEMTEL 1-800-255-3924

CHEMTEL (Emergency Response) +01-813-248-0585

Supplier

See above.

CANUTEC

1-888-CAN-UTEC (226-8832)

## 2. Hazards Identification

Physical hazardsFlammable liquidsCategory 1Health hazardsSkin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 2

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Specific target organ toxicity, single exposure Category 3 narcotic effects

Environmental hazards
WHMIS 2015 defined hazards

Not classified.

Label elements



Signal word

Danger

Hazard statement Extremely flammable liquid and vapor.

Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.
May cause drowsiness or dizziness.

**Precautionary statement** 

Prevention

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Take action to prevent static discharges. Use explosion-proof electrical/ventilating/lighting equipment. Use non-sparking tools. Ground and bond container and receiving equipment.

Avoid breathing mist or vapor.

Use only outdoors or in a well-ventilated area.

Wash thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

**Response** In case of fire: Use appropriate media to extinguish.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it

before reuse. Specific treatment (see information on this label).

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON

CENTER/doctor if you feel unwell.

**Storage** Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Keep cool.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

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WHMIS 2015: Health Hazard(s)

not otherwise classified

(HHNOC)

N#:--4----

WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC)

None known

None known

Hazard(s) not otherwise classified (HNOC)

None known.

**Supplemental information** 

This product is not subject to the Hazardous Products Act (HPA) Part II (Hazardous Products) as per paragraph 12(j); Schedule 1 (Non-Application of Part II). This restriction states that Part II does not apply in respect of the sale or importation of anything listed in Schedule 1 which includes any pest control product as defined in subsection 2(1) of the Pest Control Products Act, any explosive as defined in section 2 of the Explosives Act, any cosmetic, device, drug or food, as defined in section 2 of the Food and Drugs Act, any consumer product as defined in section 2 of the Canada Consumer Product Safety Act and any wood or product made of wood.

Exempt - Registered product - (DIN 02246644).

## 3. Composition/Information on Ingredients

wixture				
Chemical name	Common name and synonyms	CAS number	%	
Ethanol		64-17-5	65 – 85	
Alkyl benzyl dimethyl ammonium chloride		68424-85-1	0.1 – 1	
[1,1"-Biphenyl]-2-ol		90-43-7	0.1 – 1	

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

**Composition comments** 

Not applicable to DIN products. Refer to product label for active ingredient content.

4. F	First A	Aid	Measures

Inhalation IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON

CENTER/doctor if you feel unwell.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Take Skin contact

off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical

advice/attention. Specific treatment (see information on this label).

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present Eye contact

and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion Rinse mouth. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to

reduce risk of aspiration. Never give anything by mouth if victim is unconscious, or is convulsing.

Obtain medical attention.

Most important

symptoms/effects, acute and

delayed

May cause drowsiness and dizziness. Headache. Nausea, vomiting.

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

May cause respiratory irritation. Coughing.

Skin irritation. May cause redness and pain.

Indication of immediate medical attention and special

treatment needed **General information**  Symptoms may be delayed.

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

Avoid contact with eyes and skin. Keep out of reach of children.

## 5. Fire Fighting Measures

Suitable extinguishing media

Unsuitable extinguishing

media

Water fog. Alcohol resistant foam. Carbon dioxide.

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special protective equipment and precautions for firefighters

Fire-fighting equipment/instructions

Use standard firefighting procedures and consider the hazards of other involved materials. Specific methods

Move containers from fire area if you can do so without risk.

General fire hazards Extremely flammable liquid and vapor.

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### 6. Accidental Release Measures

## Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid breathing mist or vapor. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

# Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water. Clean surface thoroughly to remove residual contamination. Prevent entry into waterways, sewer, basements or confined areas. For waste disposal, see section 13 of the SDS.

#### **Environmental precautions**

Do not discharge into lakes, streams, ponds or public waters.

## 7. Handling and Storage

#### Precautions for safe handling

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight.

Take precautionary measures against static discharges.

All equipment used when handling the product must be grounded.

Use non-sparking tools and explosion-proof equipment.

Avoid contact with eyes, skin, and clothing.

Wear appropriate personal protective equipment.

Avoid breathing mist or vapor. Avoid prolonged exposure.

Observe good industrial hygiene practices.

Wash thoroughly after handling.

When handling, do not eat, drink or smoke.

# Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight.

Store in a well-ventilated place.

Store away from incompatible materials (see Section 10 of the SDS).

Keep out of reach of children.

Store locked up.

## 8. Exposure Controls/Personal Protection

### **Occupational exposure limits**

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Туре	Value
Ethanol (CAS 64-17-5)	TWA	1880 mg/m3
		1000 ppm

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Туре	Value
Ethanol (CAS 64-17-5)	STEL	1000 ppm

# Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

Components	туре	value	
Ethanol (CAS 64-17-5)	STEL	1000 ppm	

### Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Туре	Value	
Ethanol (CAS 64-17-5)	STEL	1000 ppm	

## Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

Components	Туре	Value
Ethanol (CAS 64-17-5)	TWA	1880 mg/m3 1000 ppm

## US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value
Ethanol (CAS 64-17-5)	PEL	1900 mg/m3 1000 ppm

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**US. ACGIH Threshold Limit Values** 

Value Components **Type** Ethanol (CAS 64-17-5) STEL 1000 ppm **US. NIOSH: Pocket Guide to Chemical Hazards** Components Value TWA 1900 ma/m3 Ethanol (CAS 64-17-5)

**Biological limit values** No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

Ensure adequate ventilation.

Individual protection measures, such as personal protective equipment

Wear safety glasses with side shields. Eye/face protection

Skin protection

Rubber gloves. Confirm with a reputable supplier first. Hand protection

Other As required by employer code.

Respiratory protection Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134),

CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).

Thermal hazards Not applicable.

General hygiene considerations

**Odor threshold** 

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks

1000 ppm

and immediately after handling the product. When using, do not eat, drink or smoke.

# 9. Physical and Chemical Properties

Liquid **Appearance** Physical state Liquid. Liquid. **Form** Colorless Color Alcohol Odor

Not available. Ha Melting point/freezing point Not available. Initial boiling point and boiling

range

174.2 °F (79 °C)

Not available.

Not available. Pour point Not available. Specific gravity Not available. Partition coefficient

(n-octanol/water)

71.6 °F (22.0 °C) Flash point **Evaporation rate** Not available. Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

(%)

Not available.

**Explosive limit - lower (%)** Not available. Not available. Explosive limit - upper (%)

Not available. Vapor pressure Not available. Vapor density Not available. Relative density Solubility(ies) Not available. Not available. **Auto-ignition temperature** Not available. **Decomposition temperature** Not available. **Viscosity** 

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Density 0.84 @ 25°C
Explosive properties Not explosive.
Oxidizing properties Not oxidizing.

10. Stability and Reactivity

Reactivity

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

May react with incompatible materials.

**Chemical stability** Material is stable under normal conditions.

Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Do not mix with other chemicals.

Incompatible materials Strong oxidizing agents.

**Hazardous decomposition** 

products

May include and are not limited to: Oxides of carbon.

11. Toxicological Information

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Information on likely routes of exposure

**Ingestion** May cause stomach distress, nausea or vomiting.

Inhalation May cause drowsiness and dizziness. Headache. Nausea, vomiting. May cause irritation to the

respiratory system.

**Skin contact** Causes skin irritation.

**Eye contact** Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

May cause drowsiness and dizziness. Headache. Nausea, vomiting.

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision.

Skin irritation. May cause redness and pain. May cause respiratory irritation. Coughing.

Information on toxicological effects

Acute toxicity Narcotic effects. May cause respiratory irritation.

Components Species Test Results

[1,1"-Biphenyl]-2-ol (CAS 90-43-7)

Acute

Dermal

LD50 Rabbit > 5000 mg/kg, 24 Hours, ECHA

Rat > 2000 mg/kg, 24 Hours, ECHA

Inhalation

LC50 Rat > 949 mg/m3, 1 Hours, ECHA

> 36 mg/m3, 4 Hours, ECHA

Oral

LD50 Guinea pig 3500 mg/kg, HSDB

Mouse 2000 mg/kg, HSDB

Rat > 2500 mg/kg, ECHA
> 1000 mg/kg, HSDB
2980 mg/kg, ECHA
2733 mg/kg, ECHA

2480 mg/kg, HSDB 1000 mg/kg, HSDB

Alkyl benzyl dimethyl ammonium chloride (CAS 68424-85-1)

Acute

Dermal

LD50 Not available

Inhalation

LC50 Not available

Oral

LD50 Rat 426 mg/kg, LOLI

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Components	Species	Test Results
Ethanol (CAS 64-17-5)		
Acute		
Dermal		
LD50	Rabbit	> 15800 mg/kg, SIDS initial assessment report
Inhalation		
LC50	Cat	85.4 mg/L, 4.5 Hours, ECHA
		43.7 mg/L, 6 Hours, ECHA
	Mouse	> 60000 ppm, 60 Minutes, ECHA
		79.4 mg/L, 134 Minutes, ECHA
	Rat	> 115.9 mg/L, 4 Hours, ECHA
		31623 ppm, 4 Hours, HMIRA
		20000 ppm, 10 Hours, HSDB
		51.3 mg/L, 6 Hours, ECHA
Oral		
LD50	Dog	5.5 g/kg, HSDB
	Guinea pig	5600 mg/kg, HSDB
	Monkey	6000 mg/kg
	Mouse	10500 ml/kg, ECHA
		3450 mg/kg, SAX
	Pig	> 5000 mg/kg, ECHA
	Rat	1187 - 2769 mg/kg, ECHA
	rat	12400 mg/kg, ECHA
		10470 mg/kg, ECHA
		7800 ml/kg, ECHA
Skin corrosion/irritation	Causes skin irritation.	
Exposure minutes	Not available.	
Erythema value	Not available.	
Oedema value	Not available.	
Serious eye damage/eye irritation	Causes serious eye irritation.	
Corneal opacity value	Not available.	
Iris lesion value	Not available.	
Conjunctival reddening value	Not available.	
Conjunctival oedema value	Not available.	
Recover days	Not available.	
Respiratory or skin sensitization		
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to	o cause skin sensitization.
Mutagenicity	No data available to indicate pmutagenic or genotoxic.	product or any components present at greater than 0.1% are
Carcinogenicity	See below.	
Canada - Manitoba OELs: ca	arcinogenicity	
ETHANOL (CAS 64-17-5		Confirmed animal carcinogen with unknown relevance to humans.
- ·	Evaluation of Carcinogenicity	Nationa 70 ONIst stars " Lt
[1,1"-Biphenyl]-2-ol (CAS	90-43-7)	Volume 73 - 3 Not classifiable as to carcinogenicity to humans.

[1,1"-Biphenyl]-2-ol (CAS 90-43-7) Ethanol (CAS 64-17-5) Volume 44, Volume 96, Volume 100E

Volume 96, Volume 100E

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

[1,1"-Biphenyl]-2-ol (CAS 90-43-7)

Ethanol (CAS 64-17-5)

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

**Teratogenicity** Not available.

Specific target organ toxicity -

single exposure

May cause respiratory irritation. May cause drowsiness and dizziness.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful.

# 12. Ecological Information

**Ecotoxicity** See below

Ecotoxicological data

Components Species Test Results

Algae IC50 Algae 0.85 mg/L, 72 Hours
Crustacea EC50 Daphnia 1.75 mg/L, 48 Hours

Aquatic

[1,1"-Biphenyl]-2-ol (CAS 90-43-7)

Crustacea EC50 Water flea (Daphnia magna) 1 - 2.4 mg/L, 48 hours
Fish LC50 Fathead minnow (Pimephales promelas) 3.4 mg/L, 96 hours

Alkyl benzyl dimethyl ammonium chloride (CAS 68424-85-1)

Aquatic

Fish LC50 Striped bass (Morone saxatilis) 10.4 - 19.1 mg/L, 96 hours

Ethanol (CAS 64-17-5)

Crustacea EC50 Daphnia 11744.5 mg/L, 48 Hours

Aquatic

Crustacea EC50 Water flea (Daphnia magna) 7.7 - 11.2 mg/L, 48 hours

No data is available on the degradability of this product.

Fish LC50 Fathead minnow (Pimephales promelas) > 100 mg/L, 96 hours

Persistence and degradability

**Bioaccumulative potential** 

Mobility in soil

Mobility in general

Other adverse effects

No data available.

Not available.

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

13. Disposal Considerations

**Disposal instructions**Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations**Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

Contaminated packaging

products

Empty containers or liners may retain some product residues. This material and its container must

be disposed of in a safe manner (see: Disposal instructions).

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

## 14. Transport Information

**Transport of Dangerous Goods** In accordance with Part 2.2.1 (SOR/2014-152) of the Transportation of Dangerous Goods (**TDG**) **Proof of Classification** Regulations, we certify that the classification of this product is correct as of the SDS date of issue.

## U.S. Department of Transportation (DOT)

Basic shipping requirements:

UN number UN1993

**Proper shipping name** Flammable liquids, n.o.s.

Technical name Ethanol Hazard class 3
Packing group II

Special provisions IB2, T7, TP1, TP8, TP28

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Transportation of Dangerous Goods (TDG - Canada)

**Basic shipping requirements:** 

UN number UN1993

Proper shipping name FLAMMABLE LIQUID, N.O.S.

Technical nameEthanolHazard class3Packing groupIISpecial provisions16, 150

DOT



**TDG** 



## 15. Regulatory Information

Canadian federal regulations

This product is not subject to the Hazardous Products Act (HPA) Part II (Hazardous Products) as per paragraph 12(j); Schedule 1 (Non-Application of Part II).

This restriction states that Part II does not apply in respect of the sale or importation of anything listed in Schedule 1 which includes any pest control product as defined in subsection 2(1) of the Pest Control Products Act, any explosive as defined in section 2 of the Explosives Act, any cosmetic, device, drug or food, as defined in section 2 of the Food and Drugs Act, any consumer product as defined in section 2 of the Canada Consumer Product Safety Act and any wood or product made of wood.

Exempt - Registered product - (DIN 02246644).

Canada NPRI VOCs with Additional Reporting Requirements: Mass reporting threshold/Identification Number

Ethanol (CAS 64-17-5) 1 TONNES

Export Control List (CEPA 1999, Schedule 3)

Not listed.

**Greenhouse Gases** 

Not listed.

**Precursor Control Regulations** 

Not regulated.

WHMIS 2015 Exemptions Exempt

**US federal regulations**This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

[1,1"-Biphenyl]-2-ol (CAS 90-43-7) Listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

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SARA 302 Extremely No hazardous substance

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Not regulated.

## Other federal regulations

### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

[1,1"-Biphenyl]-2-ol (CAS 90-43-7)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

US state regulations

See below

### US - California Hazardous Substances (Director's): Listed substance

Ethanol (CAS 64-17-5) Listed.

**US - Illinois Chemical Safety Act: Listed substance** 

[1,1"-Biphenyl]-2-ol (CAS 90-43-7)

Ethanol (CAS 64-17-5)

### **US - Louisiana Spill Reporting: Listed substance**

[1,1"-Biphenyl]-2-ol (CAS 90-43-7) Listed. Ethanol (CAS 64-17-5) Listed.

**US - Minnesota Haz Subs: Listed substance** 

Ethanol (CAS 64-17-5) Listed.

US - New Jersey RTK - Substances: Listed substance

[1,1"-Biphenyl]-2-ol (CAS 90-43-7)

Ethanol (CAS 64-17-5)

### US - Texas Effects Screening Levels: Listed substance

Alkyl benzyl dimethyl ammonium chloride (CAS Listed.

68424-85-1)

Ethanol (CAS 64-17-5) Listed.

#### **US. Massachusetts RTK - Substance List**

[1,1"-Biphenyl]-2-ol (CAS 90-43-7)

Ethanol (CAS 64-17-5)

## **US. New Jersey Worker and Community Right-to-Know Act**

[1,1"-Biphenyl]-2-ol (CAS 90-43-7)

## US. Pennsylvania Worker and Community Right-to-Know Law

[1,1"-Biphenyl]-2-ol (CAS 90-43-7)

Ethanol (CAS 64-17-5)

## **US. Rhode Island RTK**

Ethanol (CAS 64-17-5)

#### **US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

### US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

[1,1"-Biphenyl]-2-ol (CAS 90-43-7) Listed: August 4, 2000 Ethanol (CAS 64-17-5) Listed: April 29, 2011 Listed: July 1, 1988

# US - California Proposition 65 - CRT: Listed date/Developmental toxin

Ethanol (CAS 64-17-5) Listed: October 1, 1987

### Inventory status

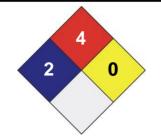
Country(s) or regionInventory nameOn inventory(yes/no)\*CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)NoUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

# 16. Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0





Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

2021-04-12

Issue date Version #

02

**Effective date** 

2021-04-12

Other information

For an updated SDS, please contact the supplier/manufacturer listed on the first page of the

document.