

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

VELTEK ASSOCIATES, INC. Date of issue: 10/29/2019 Version: 1.0

#### **SECTION 1: Identification**

1.1. Identification

Product form : Mixture

Product name : DECON-SPORE® 200 Plus (Use-dilutions < 3.0%)

Product code : SDS VEL-145

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Disinfectant or C. Difficile sporicidal dose

For professional use only

1.3. Supplier

Veltek Associates, Inc.

15 Lee Blvd

Malvern, PA 19355-1234 USA

Telephone: +1 610-644-8335 - Fax: +1 610-644-8336

E-mail: vai@sterile.com

In Canada distributed by:

Canada Clean Room (CCR)

20 Cope Dr.

Kanata, ON K2M 2V8, Canada Telephone: (888)595-8070

1.4. Emergency telephone number

Emergency number : CARECHEM 24: 1-215-207-0061

1-866-928-0789 (toll free) Canada: 1-800-579-7421 (toll free) Mexico: +52-55-5004-8763

## SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

## **GHS-US classification**

Hazardous to the aquatic environment - Chronic Hazard Category 3 H412 Harmful to aquatic life with long lasting effects

Full text of H statements : see section 16

## 2.2. GHS Label elements, including precautionary statements

**GHS US labeling** 

Hazard statements (GHS US) : H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (GHS US) : P273 - Avoid release to the environment.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

# **SECTION 3: Composition/Information on ingredients**

#### 3.1. Substances

Not applicable

# 3.2. Mixtures

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Name	Product identifier	%	GHS-US classification
Hydrogen peroxide	(CAS-No.) 7722-84-1	0.1 - < 1	Ox. Liq. 1, H271 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 2, H401 Aquatic Chronic 3, H412
Acetic acid	(CAS-No.) 64-19-7	0.1 - < 1	Flam. Liq. 3, H226 Skin Corr. 1A, H314 Eye Dam. 1, H318
Peracetic acid	(CAS-No.) 79-21-0	0.1 - < 1	Flam. Liq. 3, H226 Org. Perox. D, H242 Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 (M = 10)

<sup>\*</sup>Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of hazard classes and H-statements : see section 16

#### **SECTION 4: First-aid measures**

#### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove person to fresh air and keep at rest in a position comfortable for breathing. If

symptoms develop obtain medical attention.

First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If

symptoms develop, obtain medical attention.

First-aid measures after eye contact : Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do.

Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Do NOT induce vomiting. Rinse mouth. Give 100 - 200 ml of water to drink. If symptoms

develop, obtain medical attention.

### 4.2. Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and : May cause slight irritation to eyes. May cause slight irritation to the skin. symptoms

## 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

#### **SECTION 5: Fire-fighting measures**

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : Do not use water jet.

### 5.2. Specific hazards arising from the chemical

Explosion hazard : On heating, there is a risk of bursting due to internal pressure build-up. Cool down the

containers exposed to heat with a water spray.

Reactivity in case of fire : On combustion, forms: oxygen. Oxygen will accelerate burning of combustible materials.

## 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Keep upwind. Exercise caution when fighting any chemical fire. On heating, there is a risk of bursting due to internal pressure build-up. Cool down the containers exposed to heat with a

water spray. Do not allow run-off from fire fighting to enter drains or water courses.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Use

self-contained breathing apparatus when in close proximity to fire.

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#### SECTION 6: Accidental release measures

# 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate area. Avoid inhalation of vapors. Avoid contact with skin, eyes and clothing. Evacuate

unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Use chemically protective clothing.

Emergency procedures : Ventilate area. Avoid inhalation of vapors. Avoid contact with eyes, skin and clothing.

#### 6.2. Environmental precautions

Collect spillage. Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if large amounts of the product enters sewers or public waters.

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

Methods for cleaning up : Absorb with earth, sand or other non-combustible material and transfer to containers for later

disposal.

#### 6.4. 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

Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapor. Avoid inhalation of

vapors. Avoid contact with skin, eyes and clothing.

Hygiene measures : Do not eat, drink or smoke when using this product. Handle in accordance with good industrial

hygiene and safety practice. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before

reuse.

# 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

Storage conditions : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking. Keep only in the original container in a cool well ventilated place. Keep container

tightly closed. Store locked up. Protect material from direct sunlight.

Incompatible materials : Combustible materials. Alcohols. Alkalis. Reducing agents. Strong oxidizing agents. Metals.

Metallic salts. Acetic anhydride. Terpenes. Chlorinated hydrocarbons.

## **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

Hydrogen peroxide (7722-84-1)		
ACGIH	Local name	Hydrogen peroxide
ACGIH	ACGIH TWA (ppm)	1 ppm
ACGIH	Remark (ACGIH)	Eye, URT, & skin irr
ACGIH	Regulatory reference	ACGIH 2019
OSHA	OSHA PEL (TWA) (mg/m³)	1.4 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	1 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
Acetic acid (64-19-7)		
Acetic acid (64-19-7)		
Acetic acid (64-19-7) ACGIH	Local name	Acetic acid
. ,	Local name ACGIH TWA (ppm)	Acetic acid 10 ppm
ACGIH		
ACGIH ACGIH	ACGIH TWA (ppm)	10 ppm
ACGIH ACGIH ACGIH	ACGIH TWA (ppm) ACGIH STEL (ppm)	10 ppm 15 ppm
ACGIH ACGIH ACGIH	ACGIH TWA (ppm)  ACGIH STEL (ppm)  Remark (ACGIH)	10 ppm 15 ppm URT & eye irr; pulm func

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Acetic acid (64-19-7)		
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
Peracetic acid (79-21-0)		
ACGIH	Local name	Peracetic acid
ACGIH	ACGIH STEL (ppm)	0.4 ppm
ACGIH	Remark (ACGIH)	A4 (Not classifiable as a Human Carcinogen: Agents which cause concern that they could be carcinogenic for humans but which cannot be assessed conclusively because of a lack of data. In vitro or animal studies do not provide indications of carcinogenicity which are sufficient to classify the agent into one of the other categories)
ACGIH	Regulatory reference	ACGIH 2019

## 8.2. Appropriate engineering controls

Appropriate engineering controls

: Provide good ventilation in process area to prevent formation of vapor. Ensure exposure is

below occupational exposure limits (where available).

Environmental exposure controls : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or

streams.

# 8.3. Individual protection measures/Personal protective equipment

### Personal protective equipment:

Avoid all unnecessary exposure.

#### Hand protection:

Wear chemically resistant protective gloves. The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed. Gloves should be removed and replaced if there are any signs of degradation or breakthrough.

## Eye protection:

Chemical goggles or safety glasses

## Skin and body protection:

Long-sleeved protective clothing

#### Respiratory protection:

Not required for normal conditions of use. If the occupational exposure limit is exceeded: Wear suitable respiratory equipment

#### Thermal hazard protection:

Not required for normal conditions of use.

### Other information:

Do not eat, drink or smoke during use.

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state: LiquidAppearance: Clear.Color: ColorlessOdor: Pungent.

Odor threshold : No data available

pH : 2.0 - 3.0

Melting point : 0 °C (32 °F)

Freezing point : No data available

Boiling point : 100 °C (212 °F)

Flash point : Not flammable

Relative evaporation rate (butyl acetate=1) : No data available

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Flammability (solid, gas) : Not applicable.

Vapor pressure : No data available

Relative vapor density at 20 °C : No data available

Relative density :  $1.004 (20 \degree C/68 \degree F)(Water = 1)$ 

Solubility : Water: Miscible : No data available Log Pow : Not flammable Auto-ignition temperature Decomposition temperature : No data available : No data available Viscosity, kinematic Viscosity, dynamic : No data available **Explosion limits** : Not applicable Explosive properties : Not explosive.

Oxidizing properties : Moderate oxidiser of susceptible materials.

#### 9.2. Other information

Additional information : This diluted product is compatible with stainless steel and aluminium surfaces. For other materials a smaller test area should be used to determine compatibility before use.

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Stable under recommended handling and storage conditions (see section 7).

#### 10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

## 10.3. Possibility of hazardous reactions

None under normal use.

#### 10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Extremely high or low temperatures. Keep out of direct sunlight. Freezing.

#### 10.5. Incompatible materials

Combustible materials. Alcohols. Alkalis. Reducing agents. Strong oxidizing agents. Metals. Metallic salts. Acetic anhydride. Terpenes. Chlorinated hydrocarbons.

### 10.6. Hazardous decomposition products

Fire may produce irritating, corrosive and/or toxic gases. Carbon monoxide. Carbon dioxide. Phosphorus oxides.

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Hydrogen peroxide (7722-84-1)		
LD50 oral, rat	693.7 mg/kg (female)(70% Aqueous solution), (OECD 401 method)	
LD50 dermal, rabbit	> 2000 mg/kg body weight (35% Aqueous solution), (OECD 402 method)	
LC50 inhalation, rat (mg/l)	> 170 mg/m <sup>3</sup> - 4 Hours (50% aerosol), (OECD 403 method)	
Acetic acid (64-19-7)		
LD50 oral, rat	3310 mg/kg body weight (Read-across: Sodium acetate)	
Peracetic acid (79-21-0)		
LD50 oral, rat	50 - 500 mg/kg body weight (35% Aqueous solution)(EPA OPP 81-1)	
LD50 dermal, rabbit	1147 mg/kg body weight (5% Aqueous solution)(EPA OPP 81-2)	
LC50 inhalation, rat (mg/l)	204 mg/m³ air - 4 Hours (5% aerosol)(EPA OPP 81-3)	
Skin corrosion/irritation	: Not classified	
	pH: 2.0 - 3.0	
Serious eye damage/irritation	: Not classified	

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pH: 2.0 - 3.0

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Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

Hydrogen peroxide (7722-84-1)

IARC group 3 - Not classifiable

Reproductive toxicity : Not classified STOT-single exposure : Not classified

Hydrogen peroxide (7722-84-1)

STOT-single exposure May cause respiratory irritation.

Peracetic acid (79-21-0)

STOT-single exposure May cause respiratory irritation.

STOT-repeated exposure : Not classified

Peracetic acid (79-21-0)

NOAEL (oral,rat,90 days)
23.4 mg/kg bodyweight/day (5% Aqueous solution) TWA (Time Weighted Average) (OECD 408 method)

Aspiration hazard : Not classified

Viscosity, kinematic : No data available

Potential Adverse human health effects and symptoms

: May cause slight irritation to eyes. May cause slight irritation to the skin.

# **SECTION 12: Ecological information**

## 12.1. Toxicity

Hydrogen peroxide (7722-84-1)		
LC50 fish	16.4 mg/l - 96 Hours (Pimephales promelas)	
EC50 Daphnia	2.4 mg/l - 48 Hours (Daphnia pulex)	
NOEC chronic crustacea	0.63 mg/l - 21 days (Daphnia magna, reproduction)	
NOEC chronic algae	0.63 mg/l - 72 Hours (Skeletonema costatum, Growth rate)	
Acetic acid (64-19-7)		
LC50 fish	> 300.82 mg/l - 96 Hours (Oncorhynchus mykiss)(OECD 203 method)	
EC50 Daphnia	> 300.82 mg/l - 48 Hours (Daphnia magna, Mobility)(OECD 202 method)	
ErC50 (algae)	> 300.82 mg/l - 72 Hours (Skeletonema costatum, Mobility)	
NOEC chronic algae	300.82 mg/l - 72 Hours (Skeletonema costatum, Mobility)	
Peracetic acid (79-21-0)		
LC50 fish	0.53 mg/l - 96 Hours (Oncorhynchus mykiss)(5% Aqueous solution)(OECD 203 method)	
EC50 Daphnia	0.73 mg/l - 48 Hours (Daphnia magna, Mobility)(OECD 202 method)	
EC50 other aquatic organisms 1	0.27 mg/l - 48 Hours (Mytilus edulis, Developmental toxicity)	
LC50 fish 2	11 mg/l - 96 Hours (Pleuronectes platessa)(12% Aqueous solution)	
ErC50 (algae)	0.16 mg/l - 72 Hours (Pseudokirchneriella subcapitata, Growth rate)	
NOEC chronic fish	2.2 μg/L - 33 days (Danio rerio)(OECD 210 method)	
NOEC chronic crustacea	0.012 mg/l - 21 days (Daphnia magna, immobilization, reproduction)(OECD 211 method)	
NOEC chronic algae	0.061 mg/l - 72 Hours (Pseudokirchneriella subcapitata, Growth rate)	

# 12.2. Persistence and degradability

DECON-SPORE® 200 Plus (Use-dilutions < 3.0%)		
Persistence and degradability	Not established.	
Hydrogen peroxide (7722-84-1)		
Persistence and degradability	Readily biodegradable.	
Biodegradation	> 99 % - 30 minutes (OECD 209 method)	
Acetic acid (64-19-7)		
Persistence and degradability	Readily biodegradable.	

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Peracetic acid (79-21-0)	
Persistence and degradability	Readily biodegradable.
Biodegradation	98 % - 28 days (OECD 301E method)

## 12.3. Bioaccumulative potential

DECON-SPORE® 200 Plus (Use-dilutions < 3.0%)			
Bioaccumulative potential	Not established.		
Hydrogen peroxide (7722-84-1)	Hydrogen peroxide (7722-84-1)		
Log Pow	-1.57 (20 °C), (calculated value)		
Bioaccumulative potential	Low bioaccumulation potential.		
Acetic acid (64-19-7)			
BCF fish 1	3.16 (QSAR)		
Log Pow	-0.17 (25 °C)		
Peracetic acid (79-21-0)			
Log Pow	-0.26 (25 °C, pH 7)(QSAR)		
Bioaccumulative potential	Low bioaccumulation potential.		

#### 12.4. Mobility in soil

Hydrogen peroxide (7722-84-1)	
Mobility in soil Not expected to adsorb to soil	
Acetic acid (64-19-7)	
Log Koc	0.062 (20 °C)

#### 12.5. Other adverse effects

Other information : Avoid release to the environment.

# **SECTION 13: Disposal considerations**

# 13.1. Disposal methods

Waste disposal recommendations : Do not discharge into drains or the environment. Dispose in a safe manner in accordance with

local/national regulations.

Additional information : Handle empty containers with care. Ecology - waste materials : Avoid release to the environment.

# **SECTION 14: Transport information**

#### **Department of Transportation (DOT)**

In accordance with DOT

Other information : Not regulated.

Special transport precautions : DO NOT TRANSPORT - This dilution of product is an on-site dilution in water by the user

according to product label directions. It is not supplied nor transported in commerce at this

dilution. See SDS DS200-0397-01-01 for hazards of undiluted product.

# **Transportation of Dangerous Goods**

Not regulated

## Transport by sea

Not regulated

#### Air transport

Not regulated

# **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

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Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Peracetic acid	CAS-No. 79-21-0	011%
i ciacciic acia	0A0 NO. 75 Z 1 0	0.1 - < 1/0

Hydrogen peroxide (7722-84-1)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
CERCLA RQ	1000 lb	
SARA Section 302 Threshold Planning Quantity (TPQ)	1000 lb	
Acetic acid (64-19-7)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
CERCLA RQ	5000 lb	
Peracetic acid (79-21-0)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
CERCLA RQ	500 lb	
SARA Section 302 Threshold Planning Quantity (TPQ)	500 lb	

#### 15.2. International regulations

#### **CANADA**

No additional information available

#### **EU-Regulations**

No additional information available

# **National regulations**

No additional information available

# 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Component	State or local regulations
Hydrogen peroxide(7722-84-1)	U.S New Jersey - Right to Know Hazardous Substance List
Acetic acid(64-19-7)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
Peracetic acid(79-21-0)	U.S New Jersey - Right to Know Hazardous Substance List

# **SECTION 16: Other information**

Data sources : US OSHA HazCom (GHS) 25 May 2012.

Other information

: This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law (FIFRA).

These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals.

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# Full text of H-phrases:

H226	Flammable liquid and vapor	
H242	Heating may cause a fire.	
H271	May cause fire or explosion; strong oxidizer	
H301	Toxic if swallowed	
H302	Harmful if swallowed	
H312	Harmful in contact with skin	
H314	Causes severe skin burns and eye damage	
H318	Causes serious eye damage	
H331	Toxic if inhaled	
H332	Harmful if inhaled	
H335	May cause respiratory irritation	
H400	Very toxic to aquatic life	
H401	Toxic to aquatic life	
H410	Very toxic to aquatic life with long lasting effects	
H412	Harmful to aquatic life with long lasting effects	

# Abbreviations and acronyms:

ACGIH (American Conference of Government Industrial Hygienists)		
ATE (Acute Toxicity Estimate)		
CAS (Chemical Abstracts Service) number		
DNEL (Derived No Effect Level)		
EC50 (Effective Concentration 50%)		
IARC (International Agency for Research on Cancer)		
IATA (International Air Transport Association)		
IMDG (International Maritime Dangerous Goods Code)		
IMO (International Maritime Organisation)		
LC50 (Lethal Concentration 50%)		
LD50 (Lethal Dose 50%)		
OECD (Organisation for Economic Co-operation and Development)		
OSHA (Occupational Safety and Health Administration) (US)		
PBT (Persistent, Bioaccumulative and Toxic)		
PNEC (Predicted No Effect Concentration)		
QSAR (Quantitative Structure-Activity Relationship)		
STEL (Short Term Exposure Limit)		
TSCA (Toxic Substances Control Act) (US)		
TWA (Time Weighted Average)		
UNxxxx (Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods)		
vPvB (very Persistent and very Bioaccumulative)		

NFPA health hazard

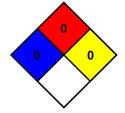
NFPA fire hazard

NFPA reactivity

: 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.

 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

: 0 - Material that in themselves are normally stable, even under fire conditions.



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Hazard Rating

Health : 0 Minimal Hazard - No significant risk to health Flammability : 0 Minimal Hazard - Materials that will not burn

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT

react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

#### Indication of changes:

Section	Changed item	Change	Comments
1	Identification	Modified	
2	Hazards identification	Modified	
3	Composition/Information on ingredients	Modified	
4	First aid measures	Modified	
5	Fire fighting measures	Modified	
6	Accidental release measures	Modified	
7	Handling and storage	Modified	
8	Exposure controls / Personal protection equipment	Modified	
10	Stability and reactivity	Modified	
11	Toxicological information	Modified	
12.	Ecological information	Modified	
14	Transport information	Modified	
15	Regulatory information	Modified	
16	Other information	Modified	

#### SDS US (GHS HazCom 2012)

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Veltek Associates, Inc. gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Veltek Associates, Inc. accepts no liability for loss or damage resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.

This SDS has been translated into the official language of the country/region in which the product is to be placed on the market. Where no official translation exists, the regulatory text is reported in English, as it appears in the relevant regulatory text.

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