# **MATERIAL SAFETY DATA SHEET** Ρ

PERACLEAN® 1	15			
Material no. Specification Order Number	100367	Version Revision date Print Date Page	6.1 / US 05/06/2014 10/28/2014 1 / 16	

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

## **Product information**

Trade name Use of the Substance / Preparation Function	:	PERACLEAN® 15 For industrial use Water treatment
Company	:	Evonik Corporation USA 299 Jefferson Road Parsippany,NJ 07054-0677 USA
Telephone	:	973-929-8000
Telefax	:	973-929-8040
US: CHEMTREC EMERGENCY NUMBER	:	800-424-9300
CANADA: CANUTEC EMERGENCY NUMBER	:	613-996-6666
Product Regulatory Services	:	973-929-8060

## 2. HAZARDS IDENTIFICATION

#### \*\*\* EMERGENCY OVERVIEW \*\*\*

Form-liquid Color-colourless, clear **Odor**-stinging

Corrosive Causes skin and eye burns. Toxic. Harmful if absorbed through the skin. May be fatal if inhaled. Harmful if swallowed. Aspiration hazard if swallowed - can enter lungs and cause damage. Combustible liquid and vapor. Oxidizer Contact with combustible material may cause fire. Risk of decomposition in contact with incompatible substances, impurities, metals, alkalis, reducing agents. Risk of decomposition when exposed to heat. see also section 10.

## POTENTIAL HEALTH EFFECTS

#### Eye contact

Corrosive. May cause burns resulting in permanent damage.



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Causes painful stinging or burning of eyes and lids, watering of eyes, conjunctivitis, opaqueness of cornea, possibly leading to loss of sight.

#### Skin Contact

Corrosive. Contact causes burning sensations, smarting, inflammation, burns, painful blisters. Harmful if absorbed through skin.

#### Inhalation

Highly toxic by inhalation of aerosol or mist.

May cause irritation of nose, throat, and lungs with cough, difficulty breathing or shortness of breath; or pulmonary edea (fluid in the lungs) with cough, wheezing, abnormal lung sounds, possibly progressing to shortness of breath and bluish discoloration of the skin.

#### Ingestion

Harmful if swallowed. Causes severe digestive tract burns. Small amounts of this product aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Chemical nature**

Preparation of perethanoic acid, hydrogen peroxide, ethanoic acid and water in balance.

#### Information on ingredients / Hazardous components

d		
o. 79-21-0	Percent (Wt./ Wt.)	>= 14 - <= 17 %
roxide solution %		
o. 7722-84-1	Percent (Wt./ Wt.)	>= 20 - <= 30 %
o. 64-19-7	Percent (Wt./ Wt.)	>= 15 - <= 20 %
	eroxide solution % lo. 7722-84-1	Io.         79-21-0         Percent (Wt./ Wt.)           eroxide solution %         %           Io.         7722-84-1         Percent (Wt./ Wt.)

#### Other information

This material is classified as hazardous under OSHA regulations.

#### 4. FIRST AID MEASURES

#### **General advice**

Pay attention to self-protection.

Remove victims from hazardous area. Immediately remove soiled or soaked clothing and remove it to a safe distance. Keep victim warm, in a stabilized position and covered.

Do not leave victims unattended.

If the casualty is unconscious: Place the victim in the recovery position.

#### Inhalation

Potential for exposure by inhalation if aerosols or mists are generated. Move victims into fresh air. With labored breathing: Provide with oxygen. Consult a doctor.



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If the casualty is not breathing: Perform mouth-to-mouth resuscitation, notify emergency physician immediately.

#### Skin contact

Wash off affected area immediately with plenty of water for at least 15 minutes. If symptoms persist, consult a physician for treatment.

#### Eye contact

With eye held open, thoroughly rinse immediately with plenty of water for at least 10 minutes. Consult an ophthalmologist immediately if the symptoms persist.

When dealing with caustic substances, notify emergency physician immediately (key words: burns in eye).

#### Ingestion

Rinse out mouth. Immediately give large quantities of water to drink. Consult a physician immediately. When dealing with caustic substances, notify emergency physician immediately.

#### Notes to physician

The initial focus is only on the local action, characterized by quickly progressing deep tissue damage. In the eye, caustic/ irritating and harmful liquids cause, depending on the intensity of exposure, various levels of irritation, destruction, and ablation of the epithelium of the conjunctiva and cornea, corneal clouding, edema and ulcerations.

Danger! Possible loss of eyesight!

Superficial irritations and damage up to ulcerations and scarring develop on the skin.

After accidental absorption in the body, the pathology and clinical findings are dependent on the kinetics of the substance (quantity of absorbed substance, the absorption time, and the effectiveness of early elimination measures (first aid)/ excretion - metabolism).

A specific action of the substance is unknown.

In case of substances with high water solubility, irritations up to formation of necrosis in the upper respiratory tract may result after inhalation of caustic/ irritating aerosols and mists.

The initial focus is on the local action: signs of irritation of the respiratory tract such as coughing, burning behind the sternum, tears, burning in the eyes or nose.

There is a risk of pulmonary edema!

## 5. FIRE-FIGHTING MEASURES

Flash point	79 °C, 174 °F Method:   ISO 2719
Lower explosion limit	no data available
Upper explosion limit	no data available
Autoignition temperature	260 °C Method: DIN 51 794

## Suitable extinguishing media

water spray, foam, dry powder, carbon dioxide (CO2)

Extinguishing media which must not be used for safety reasons organic compounds

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#### Specific hazards during fire fighting

Contact with the following substances may cause inflammation: flammable substances. Involved in fire, it may decompose yielding oxygen. Risk of overpressure and burst due to decomposition in confined spaces and pipes. Release of oxygen may support combustion. In case of fire, remove the endangered containers and bring to a safe place, if this can be done safely.

Keep away from heat. If necessary: In the case of fire, cool the containers that are at risk with water or dilute with water (flooding).

#### Special protective equipment for fire-fighters

In the case of fire, wear respiratory protective equipment independent of surrounding air and chemical protective suit.

#### **Further information**

Evacuate personnel to safe areas. Keep out unprotected persons. Keep unauthorized persons away. Water used to extinguish fire should not enter drainage systems, soil or stretches of water. Ensure there are sufficient retaining facilities for water used to extinguish fire. Contaminated fire-extinguishing water must be disposed of in accordance with the regulations issued by the appropriate local authorities. Fire residues should be disposed of in accordance with the regulations.

## 6. ACCIDENTAL RELEASE MEASURES

#### **Personal precautions**

Product causes chemical burns.

Evacuate personnel to safe areas.

Keep out unprotected persons. Keep unauthorized persons away.

Remove all sources of ignition. Ventilate the area.

#### **Environmental precautions**

Observe regulations on prevention of water pollution (collect, dam up, cover up). Do not allow to run into water channels, surface water, or into the ground.

Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, rivers, groundwater or soil.

## Methods for cleaning up

Keep away from incompatible substances.
Keep away from flammable substances.
see section 10.
Clean contaminated surface thoroughly.
Recommended cleaning agent: water.
Dispose of absorbed material in accordance with the regulations.
see section 13.
With small amounts:
Dilute product with lots of water and rinse away.
see section 12.
or
Absorb with liquid-binding material, e. g.: chemisorption, diatomaceous earth, universal binder Do not use: textiles, saw dust, combustible substances.

Pick up mechanically. Collect in suitable containers.

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#### Additional advice

Make safe or remove all sources of ignition.

Isolate defective containers immediately, if possible and safe to do.

Shut off leak, if possible and safe to do.

Place defective containers in waste receptacle (waste packaging receptacle) made of plastic (not metal). Do not seal defective containers or waste receptacles airtight (danger of bursting due to product decomposition).

Product taken out should not be returned into container.

Never return spilled product into its original container for re-use. (Risk of decomposition.).

## 7. HANDLING AND STORAGE

#### Handling

#### Safe handling advice

Avoid contact with skin, eyes and clothing. Do not breathe in vapours, aerosols, sprays. Wear personal protective equipment.

Handle in accordance with good industrial hygiene and safety practices. Avoid impurities and heat effect. Ensure there is good room ventilation.

Immediately change moistened and saturated work clothes. Immediately rinse contaminated or saturated clothing with water.

Never return spilled product into its original container for re-use. (Risk of decomposition.).

Provide for installation of emergency shower and eye bath. Set up safety and operation procedures.

#### Advice on protection against fire and explosion

Avoid sun rays, heat, heat effect. Keep away from sources of ignition - No smoking.

Keep away from flammable substances.

Keep away from incompatible substances. see section 10.

To cool, spray closed containers with water spray jet. In case of fire, remove the endangered containers and bring to a safe place, if this can be done safely.

see section 5.

#### Storage

#### Requirements for storage areas and containers

cool, well ventilated, clean, lockable. Recommendation: Acid-proof floor. Only use containers which are specially permitted for: Peracetic acid. and/or For transport, storage and tank installations only use suitable materials. Use adequate venting devices on all packages, containers and tanks and check correct operation periodically. Do not confine product in unvented vessels or between closed valves.

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Risk of overpressure and burst due to decomposition in confined spaces and pipes. Packages, containers and tanks should regularly be checked by visual observation for any sign of abnormality, e.g. corrosion, exert pressure (bulging), temperature increase etc. Transport and store container in upright position only. Do not empty container by means of pressure. Always close container tightly after removal of product. Do not keep the container sealed. Ensure tightness at all times. Avoid leackage. Avoid residues of the product on the containers. Suitable materials stainless steel (1.4571) polyethylene, polypropylene, polyvinyl chloride (PVC), Suitable materials polytetrafluoroethylene, glass, ceramics. Suitable materials Unsuitable materials iron, copper, brass, Bronze, aluminium, tin, zinc.

#### **Further information**

Avoid sun rays, heat, heat effect. Avoid impurities. see also section 15.

Regularly verify the availability of water to deal with emergencies (for cooling, tank flooding, fire fighting) and check correct operation periodically.

For detailed information on design specifications for the construction of tank- and dosing installations ask the producer for advice.

#### Advice on common storage

Do not store together with: alkalis, reductants, metallic salts (risk of decomposition).

Do not store together with: inflammable substances (risk of fire).

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Component occupational exposure guidelines**

• hydrogen peroxide solution ... %

<ul> <li>Inyurogen peroxi</li> </ul>		
CAS-No. Control parameters	7722-84-1 1 ppm 1 ppm	Time Weighted Average (TWA):(ACGIH) PEL:(OSHA Z1)
	1.4 mg/m3	
	1 ppm 1.4 mg/m3 as H2O2	Time Weighted Average (TWA) Permissible Exposure Limit (PEL):(US CA OEL)
<ul> <li>Acetic acid</li> </ul>		
CAS-No.	64-19-7	
	10 ppm	Time Weighted Average (TWA):(ACGIH)
	15 ppm	Short Term Exposure Limit (STEL):(ACGIH)
	10 ppm	PEL:(OSHA Z1)
	25 mg/m3	
	10 ppm	Time Weighted Average (TWA)
	25 mg/m3	Permissible Exposure Limit (PEL):(US CA OEL)
	40 ppm	Ceiling Limit Value:(US CA OEL)
	15 ppm	Short Term Exposure Limit (STEL):(US CA
	37 mg/m3	OEL)

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#### Other information

Suitable measuring processes are:

Hydrogen peroxide

OSHA method ID 006 OSHA method VI-6

Acetic acid

NIOSH method 1603 OSHA method ID 186

#### **Engineering measures**

Ensure suitable suction/aeration at the work place and with operational machinery. Provide for installation of emergency shower and eye bath. see also section 7.

#### Personal protective equipment

#### **Respiratory protection**

Do not inhale vapour, aerosols, mist.

If workplace exposure limit is exceeded apply Respiratory protective equipment.

wear a self contained respiratory apparatus

If necessary: Local ventilation.

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

Note time limit for wearing respiratory protective equipment.

## Hand protection

Applies to handling for brief periods or of small amounts

Glove material	Nitrile, for example: Dermatril 740, Kächele-Cama Latex GmbH (KCL), Germany
Material thickness Break through time	0.11 mm < 30 min
Method	DIN EN 374

Applies to handling for longer periods or of large amounts

Glove material	Polychloroprene (PCP), for example: Camapren 720, Kächele-Cama	
	Latex GmbH (KCL), Germany	
Material thickness	0.65 mm	
Break through time	> 480 min	
Method	DIN EN 374	

The above mentioned hand protection is based on knowledge of the chemistry and anticipated uses of this product but it may not be appropriate for all workplaces. A hazard assessment should be conducted prior to use to ensure suitability of gloves for specific work environments and processes prior to use.

#### Use impermeable gloves.

Personal protective equipment that provides a barrier to prevent dermal exposure to this substance is required.

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#### Eye protection

Use chemical splash goggles or face shield. When handling larger quantities: protective screen

#### Skin and body protection

Wear protective clothing, acid-proof. Suitable materials are: PVC, neoprene, nitrile rubber (NBR), rubber. Rubber or plastic boots.

A safety shower and eye wash fountain should be readily available.

To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.

#### Hygiene measures

Avoid contact with skin, eyes and clothing. Do not inhale vapour, aerosols, mist. Ensure there is good room ventilation.

Avoid contaminating clothes with product.

Immediately change moistened and saturated work clothes. Immediately rinse contaminated or saturated clothing with water. Any contaminated protective equipment is to be cleaned after use.

No eating, drinking, smoking, or snuffing tobacco at work. Wash face and/or hands before break and end of work. Use barrier cream regularly.

#### **Protective measures**

Handle in accordance with good industrial hygiene and safety practices.

Wear suitable protective clothing, gloves and eye/face protection.

The work-place related airborne concentrations have to be kept below of the indicated exposure limits. If workplace exposure limits are exceeded and/or larger amounts are released (leakage, spilling, dust) the indicated respiratory protection should be used.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance

Form Color Odor	liquid colourless, clear stinging	
Safety data		
pH	ca0.6 Medium:	<mark>(</mark> 20 °C) Product
Melting point/range	ca50 °C	
Boiling point/range	not applicable	
	> 60 °C Decomposition	

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Flash point		79 °C <mark>(</mark> close Method: ISO 2719	ed cup <mark>)</mark>		
Flammability		No data available			
Autoignition temperature		260 °C Method: DIN 51 794			
Autoinflammability		not spontaneously	flammable	е	
Oxidizing properties		oxidizing Method: (according to	o EC Direo	ctive 67/548/EEC)	
Explosiveness		No data available			
Lower explosion limit		no data available			
Upper explosion limit		no data available			
Vapor pressure		ca. 25 hPa <mark>(</mark> 20 °C	<mark>))</mark>		
Density		ca. 1.15 g/cm3	(20 °C)		
Relative density		No data available			
Water solubility		No data available			
Partition coefficient (n-oc		log Pow: -0.52 Measured as perae	cetic acid		
Viscosity, dynamic		No data available			
Vapour density		No data available			
Further information	1				
Miscibility in water		completely miscibl	е		
Other information		strong oxidizing ag Burn rate: does no			

## **10. STABILITY AND REACTIVITY**

Conditions to avoid	sun rays, heat, heat effect
Materials to avoid	Impurities, decomposition catalysts, metal salts, alkalis, reducing substances., metals, nonferrous heavy metal, aluminium, zinc., Possible hazardous reaction: decomposition.
	flammable materials, Possible hazardous reaction: Spontaneous ignition.

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	organic solvents, Pos	sible hazardous reactio	n: Danger of explosion.		
Hazardous decomposition products	decomposition products Under conditions of thermal decomposition: steam, oxygen, Acetic acid				
Thermal decomposition	>= 60 °C self-accelerating decomposition				
Hazardous reactions	When coming in contact with the product, impurities, decomposition catalysts, metallic salts, alkalis, reducing agents may lead to self-accelerated, exothermic decomposition and the formation of oxygen.				
	Risk of overpressure and burst due to decomposition in confined spaces and pipes. Release of oxygen may support combustion.				

## **11. TOXICOLOGICAL INFORMATION**

Product Acute oral toxicity	LD50 Rat: 1015 mg/kg Method: OECD Test Guideline 401 Test substance: Peracetic acid 15 %
Product Acute inhalation toxicity	Approximate lethal concentration Rat: 0.49 mg/IVapour as peracetic acid literature
Product Acute dermal toxicity	LD50 Rabbit(female): 1912 mg/kg Method: literature Test substance: peracetic acid 10 %
Product Skin irritation	Rabbit strongly corrosive Method: literature Test substance: peracetic acid 10 %
Product Eye irritation	Rabbit corrosive Method: literature Test substance: peracetic acid 5 %
Product Sensitization	Buehler Test guinea pig: negative Method: literature Test substance: peracetic acid 5 %
Product Repeated dose toxicity	Oral Rat Testing period: 90 d NOEL: 5 mg/kg target organ/effect: Local irritant effect Method: OECD TG 408 Test substance: peracetic acid 5 %
Product Gentoxicity in vitro	Ames test predominantly negative

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	Metabolic activation: W	ith or without	
	Unscheduled DNA s negative Metabolic activation: w literature	ynthesis -test (UDS) rithout	
	chromosomal aberra negative Metabolic activation: w Method: OECD TG 473	rith or without	
	HGPRT-Test V 79 co negative Metabolic activation: w Method: OECD TG 476	rith or without	
Product Gentoxicity in vivo	Micronucleus test mo negative Method: literature	ouse Oral	
	Unscheduled DNA s negative Method: literature	ynthesis -test (UDS) Rat C	Dral
Product Carcinogenicity	No data available		
Product Toxicity to reproduction	No data available		
Product Teratogenicity	Observed Adverse Effect Le Method: OECD TG 414 Low body weight Disturbed ossificatio	1	
Product Human experience	tract) Also in dilute solutior	-	us membranes (respiratory pending on the

# **12. ECOLOGICAL INFORMATION**

# Elimination information (persistence and degradability)

Biodegradability Re Exp

Readily biodegradable Exposure time: 28 d Method: OECD TG 301 E At non-bacteriotoxic concentrations

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aterial no. pecification <b>100367</b>	Version Revision date Print Date	6.1 / US 05/06/2014 10/28/2014	
rder Number	Page inoculum: seawater	12 / 16	
	completely biodegradab 95 % Exposure time: 28 d Method: OECD 306	le	
Physico-chemical removability	Hydrolyzes after 7 days pH 4	by approx. 50 %.	
	Hydrolyzes after 1 day t pH 7 and pH 9	o approx. 50 %.	
Further Information	Under ambient condition occurs. The following substance Acetic acid is easily biod	es are formed: oxygen	eduction or decomposition , water, acetic acid.
Behaviour in environmenta	I compartments		
Bioaccumulation	low log Pow: see chapter 9		
Mobility	No data available		
Ecotoxicity effects			
Toxicity to fish	LC50 Pleuronectes plate Test substance: As peraceti Method: literature		
	LC50 Oncorhynchus my Test substance: As peraceti Method: literature		1
	NOEC Daphnia magna: Test substance: PAA solutio Method: OECD TG 202		15% H202, ca. 25% HOA
	EC50 Daphnia magna: Test substance: PAA solutic Method: OECD TG 202	5	15% H202, ca. 25% HOA
Toxicity to daphnia	EC50 Daphnia magna: Test substance: As peraceti Method: OECD TG 202 literature		
Toxicity to algae	IC 50 selenastrum capri Test substance: As peraceti Method: US-EPA-method chronic literature		g/l / 120 h



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Toxicity to bacte	ria	EC50 Activated sludge: 5.1 n Test substance: As peracetic acid Method: OECD TG 209	•		
chronic toxicity i	n fish	NOEC Danio rerio: 0.015 mg Test substance: As peracetic acid Method: OECD TG 210			
chronic toxicity i	n daphnia	NOEC Daphnia magna: 0.05 Test substance: As peracetic acid Method: OECD 211			
Toxicity in organ the soil	iisms which live in	LC50 Eisenia foetida: > 1000 Test substance: Peracetic acid 15 Method: OECD 207			
		EC50 C-Transformation : > 93 Test substance: peracetic acid Method: OECD TG 217	33.6 mg/kg  / 2	28 d	
		EC50 N-Transformation : > 93 Test substance: peracetic acid Method: OECD TG 216	33.6 mg/kg  / 2	28 d	
Toxicity in terres	strial plants	NOEC: 180 mg/kg Method: OECD 208			

## Further information on ecology

AOXThe product does not contain any organically bonded halogen.General Ecological InformationDoes not contain any heavy metals and compounds from EC directive<br/>76/464e.g. arsenic-, lead<br/>cadmium<br/>Mercury<br/>organic halogen compounds<br/>organic compounds

## **13. DISPOSAL CONSIDERATIONS**

#### WASTE DISPOSAL

Advice on disposal

Waste must be disposed of in accordance with local, state, provincial and federal laws and regulations. Empty containers must be handled with care due to product residue.

#### **14. TRANSPORT INFORMATION**

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aterial no.		Version Revision date	6.1 / US 05/06/2014	
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rder Number		Page	14 / 16	
D.O.T. Road	Rail			
Class		5.2		
UN-No		3109		
Packing	group	II		
Subsidia	ry risk	8		
Proper s	hipping name	Organic p	eroxide type F, liqui	b
Technica	al Name	(Peroxva	cetic acid, type F stal	bilized - 14 - 17%.
			acetic acid)	,
Sea transpo	t IMDG-Code			
Class		5.2		
UN-No		3109		
Packing	group			
Subsidia		8		
EmS		F-J, S-R		
Proper te	echnical name (Prope			
ORGA	NIC PEROXIDE	TYPE F, LIQUID		
		TIC ACID, TYPE F, stabil	ized)	
Air transport		OGR		
Class		5.2		
UN-No		3109		
Packing	group			
Subsidia		8		
	echnical name (Prop			
•	c peroxide type F			
-		•	ized)	
		TIC ACID, TYPE F, stabil	ized)	
-	ructions/Remar			
IATA_C		G-Code 5L	ounlight and stored	owov from all courses
		t be protected from direct eat in a well-ventilated are		away Irom all Sources
IATA_P		G-Code 5L		
<u>.</u>		t be protected from direct	sunlight and stored	away from all sources
		eat in a well-ventilated are		,
IMDG		"Separated from" acids and alkalis.		
	Prot	ected from sources of hea	at.	
		-		
Transport/fu	rther informatio	n		

# **15. REGULATORY INFORMATION**

# Information on ingredients / Non-hazardous components

This product contains the following non-hazardous components

Water

CAS-No. 7732-18-5 Percent (Wt./ Wt.)

## **US Federal Regulations**

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#### OSHA

If listed below, chemical specific standards apply to the product or components:

None listed

#### **Clean Air Act Section (112)**

If listed below, components present at or above the de minimus level are hazardous air pollutants:

None listed

#### **CERCLA Reportable Quantities**

If listed below, a reportable quantity (RQ) applies to the product based on the percent of the named component:

Acetic acid

CAS-No. 64-19-7 Reportable Quantity 25000 lbs

#### SARA Title III Section 311/312 Hazard Categories

The product meets the criteria only for the listed hazard classes:

• Acute Health Hazard

#### SARA Title III Section 313 Reportable Substances

If listed below, components are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

• Peracetic acid CAS-No. 79-21-0

## **Toxic Substances Control Act (TSCA)**

If listed below, non-proprietary substances are subject to export notification under Section 12 (b) of TSCA:

None listed

#### **State Regulations**

#### **California Proposition 65**

A warning under the California Drinking Water Act is required only if listed below:

None listed

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#### **International Chemical Inventory Status**

Unless otherwise noted, this product is in compliance with the inventory listing of the countries shown below. For information on listing for countries not shown, contact the Product Regulatory Services Department.

<ul> <li>Europe (EINECS/ELINCS)</li> </ul>	Listed/registered
USA (TSCA)	Listed/registered
Canada (DSL)	Listed/registered
<ul> <li>Australia (AICS)</li> </ul>	Listed/registered
<ul> <li>Japan (MITI)</li> </ul>	Listed/registered
Korea (TCCL)	Listed/registered
<ul> <li>Philippines (PICCS)</li> </ul>	Listed/registered
China	Listed/registered
New Zealand	Listed/registered

#### **16. OTHER INFORMATION**

#### **HMIS Ratings**

Health :	3
Flammability :	2
Physical Hazard :	2

#### **Further information**

Data for the production of the safety data sheet from the studies available and from the literature. Further information about the characteristics of the product can be found in the product code of practice or in the Product-Brochure .

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a 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.