SIGMA-ALDRICH

Material Safety Data Sheet

Version 3.0 Revision Date 10/20/2009 Print Date 04/09/2010

Product name	· Dorocotio oci	id colution		
FIODUCI Hame	· Peracetic aci			
Product Number	: 269336			
Brand	: Sigma-Aldrich			
Company	 Sigma-Aldrich Canada, Ltd 2149 Winston Park Drive OAKVILLE ON L6H 6J8 CANADA 			
Telephone	: +19058299500			
Fax	: +19058299292			
Emergency Phone #	: 800-424-9300			
OMPOSITION/INFORM	IATION ON INGREDIENT	S		
Synonyms	: Peroxyacetic ac	cid		
Formula	: C ₂ H ₄ O ₃			
CAS-No.	EC-No.	Index-No.	Concentration	
Acetic acid				
64-19-7	200-580-7	607-002-00-6	40 %	
peracetic acid %				
79-21-0	201-186-8	607-094-00-8	35.5 %	_
Water				
7732-18-5	231-791-2	-	17 %	
Hydrogen peroxide 7722-84-1	004 705 0	008-003-00-9		_
	231-765-0	006-003-00-9	6.5 %	_
Sulfuric acid 7664-93-9	231-639-5	016-020-00-8	1 %	_
	201 000 0	1010 020 00 0	1 /0]
ZARDS IDENTIFICA				
Emergency Overview				
Target Organs				
Teeth., Kidney, Eye	s, Skin, Respiratory syste	m, Lungs		
VHMIS Classification				
	g Material	Oxidizer	table ta ta c	
D1A D1B		Highly toxic by Toxic by ingest		
		i onio by ingest		

D2B E Skin sensitiser Corrosive

HMIS Classification
Health hazard:
Chronic Health Hazard:
Flammability:
Physical hazards:

Potential Health Effects

Inhalation	May be fatal if inhaled. Material is extremely destructive to the tissue of the
	mucous membranes and upper respiratory tract.
Skin	Harmful if absorbed through skin. Causes skin burns.
Eyes	Causes eye burns.
Ingestion	Toxic if swallowed. Causes burns.

4. FIRST AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Continue rinsing eyes during transport to hospital. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

Further information

Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods for cleaning up

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

7. HANDLING AND STORAGE

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Handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Keep away from combustible material.

Storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage temperature: 2 - 8 °C

Light sensitive.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Update	Basis
Acetic acid	64-19-7	TWA	10 ppm	2006-11-29	Canada. British Columbia OEL
		STEL	15 ppm	2006-11-29	Canada. British Columbia OEL
		TWAE V	10 ppm 25 mg/m3	2005-12-17	Canada. Ontario OELs
		STEV	15 ppm 37 mg/m3	2005-12-17	Canada. Ontario OELs
		TWA	10 ppm 25 mg/m3	2007-01-01	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
Remarks			e limit is based on al work schedules		nd its adjustment to
		STEL	15 ppm 37 mg/m3	2007-01-01	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
			e limit is based on al work schedules		nd its adjustment to
		TWAE V	10 ppm 25 mg/m3	2006-12-29	Canada. Quebec OELs
		STEV	15 ppm 37 mg/m3	2006-12-29	Canada. Quebec OELs
Hydrogen peroxide	7722-84-1	TWA	1 ppm	2006-11-29	Canada. British Columbia OEL
		TWAE V	1 ppm 1.4 mg/m3	2005-12-17	Canada. Ontario OELs
		TWA	1 ppm 1.4 mg/m3	2007-01-01	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)

	I				
		TWAE V	1 ppm 1.4 mg/m3	2006-12-29	Canada. Quebec OELs
Sulfuric acid	7664-93-9	TWA	0.2 mg/m3	2004-08-01	Canada. British Columbia OEL
Remarks	carcinogens and used wh Refers to sul	IARC "1" ien there is furic acid o	applies to substan s sufficient evidence	ces categorized as e of carcinogenici i inorganic acid mi	d suspected human s carcinogenic to humans, ty in humans. sts. Note: This OEL has been
		TWAE V	0.2 mg/m3	2005-11-28	Canada. Ontario OELs
		STEV	3 mg/m3	2005-02-03	Canada. Ontario OELs
		STEL	3 mg/m3	2004-04-30	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
		TWA	1 mg/m3	2004-04-30	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
		TWA	1 mg/m3	2000-01-12	Canada. Quebec OELs
		STEL	3 mg/m3	2000-01-12	Canada. Quebec OELs

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves.

Eye protection

Tightly fitting safety goggles. Faceshield (8-inch minimum).

Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	liquid
Colour	colourless
Odour	pungent

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Safety data

рН	< 1.0
Melting point	-44 °C (-47 °F)
Boiling point	107 °C (225 °F) at 1,013 hPa (760 mmHg)
Flash point	no data available
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapour pressure	27 hPa (20 mmHg) at 25 °C (77 °F)
Density	1.130 g/cm3 at 20 °C (68 °F)
Water solubility	soluble

10. STABILITY AND REACTIVITY

Storage stability

Stable under recommended storage conditions.

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Sulphur oxides

11. TOXICOLOGICAL INFORMATION

Acute toxicity

no data available

Irritation and corrosion

no data available

Sensitisation

no data available

Chronic exposure

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Hydrogen peroxide)

Signs and Symptoms of Exposure

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea

Potential Health Effects

Inhalation	May be fatal if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
Skin	Harmful if absorbed through skin. Causes skin burns.
Eyes	Causes eye burns.
Ingestion	Toxic if swallowed. Causes burns.
Target Organs	Teeth., Kidney, Eyes, Skin, Respiratory system, Lungs,

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

no data available

Ecotoxicity effects

no data available

Further information on ecology

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

Product

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN-Number: 3109 Class: 5.2 (8) Packing group: II Proper shipping name: Organic peroxide type F, liquid (Peroxyacetic acid, type F, stabilized) Reportable Quantity (RQ): 12500 lbs Marine pollutant: No Poison Inhalation Hazard: No

IMDG

UN-Number: 3109 Class: 5.2 (8) EMS-No: F-J, S-R Proper shipping name: ORGANIC PEROXIDE TYPE F, LIQUID (PEROXYACETIC ACID) Marine pollutant: No

IATA

UN-Number: 3109 Class: 5.2 (8) Proper shipping name: Organic peroxide type F, liquid (Peroxyacetic acid, type F)

15. REGULATORY INFORMATION

DSL Status

All components of this product are on the Canadian DSL list.

WHMIS Classification

С	Oxidizing Material
D1A	-
D1B	
D2B	
Е	

Oxidizer Highly toxic by inhalation Toxic by ingestion Skin sensitiser Corrosive

16. OTHER INFORMATION

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.