

SAFETY DATA SHEET

CADOX L-50A RED

Version 1 Revision Date 04/29/2015 Print Date 08/11/2015 US / Z8

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : CADOX L-50A RED

Product Use Description : Curing agent

Company : Akzo Nobel Functional Chemicals LLC

525 West Van Buren Chicago IL 60607-3823

USA

Telephone : +18008287929 Fax : +13125447188

E-mail address : RegulatoryAffairs@akzonobel.com

Emergency telephone : AkzoNobel: +31 57 06 79211 CHEMTREC - USA: 1-800-424-9300

CANUTEC - CANADA: 1-613-996-6666

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	liquid
Color	red
Odor	faint

GHS Classification

Organic peroxides, Type D Skin corrosion, Category 1B Serious eye damage, Category 1 Reproductive toxicity, Category 2 Acute aquatic toxicity, Category 3 Chronic aquatic toxicity, Category 3

GHS Label element

Hazard pictograms





Signal Word : Danger

Hazard Statements : H242 Heating may cause a fire.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H361 Suspected of damaging fertility or the unborn child. H412 Harmful to aquatic life with long lasting effects.

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Precautionary Statements : Prevention:

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.

P220 Keep away from dirt, rust, chemicals in particular.

P234 Keep only in original container. P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye

protection/ face protection.

P281 Use personal protective equipment as required.

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT

induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower.

P304 + P340 IF INHALED: Remove person to fresh air and

keep comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/

P363 Wash contaminated clothing before reuse.

P370 + P378 In case of fire: Use water spray, alcohol-resistant

foam, dry chemical or carbon dioxide to extinguish.

Storage:

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

P405 Store locked up. P410 Protect from sunlight.

P420 Store away from other materials.

Disposal:

P501 Dispose of contents/container in accordance with local

regulation.

Potential Health Effects

Inhalation : Inhalation of aerosols may cause irritation to mucous

membranes.

Thermal decomposition can lead to release of irritating gases

and vapors.

Skin : Symptoms may be delayed.

Causes severe skin burns.

: Causes serious eye damage. Eyes

Ingestion Causes burns.

May be harmful if swallowed.

Aggravated Medical

Condition

Symptoms of Overexposure

: None known.

: The symptoms and effects are as expected from the hazards

as shown in section 2. No specific product related symptoms

are known.

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Carcinogenicity:

IARC : No ingredient of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA : No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP : No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated

carcinogen by NTP.

ACGIH : Confirmed animal carcinogen with unknown relevance to

humans

Hydrogen peroxide solution 7722-84-1

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients

Chemical Name	CAS-No.	Classification	Concentration [%]
Methyl ethyl ketone peroxide	1338-23-4	Org. Perox. A; H240	30 - 50
		Acute Tox. 4; H302	
		Skin Corr. 1B; H314	
		Eye Dam. 1; H318	
		Aquatic Acute 3; H402	
Hydrogen peroxide solution	7722-84-1	Ox. Liq. 1; H271	1 - 5
		Acute Tox. 4; H302	
		Acute Tox. 4; H332	
		Skin Corr. 1A; H314	
		Eye Dam. 1; H318	
		STOT SE 3; H335	
		Aquatic Acute 2; H401	
		Aquatic Chronic 3; H412	
Methyl ethyl ketone	78-93-3	Flam. Liq. 2; H225	1 - 5
		Eye Irrit. 2A; H319	
		STOT SE 3; H336	
C.I. Solvent Red 164	92257-31-3	Repr. 2; H361	0.1 - 1

30-35% Methyl ethyl ketone peroxide solution in aliphatic ester

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

General advice : Immediate medical attention is required.

Move out of dangerous area.

Show this material safety data sheet to the doctor in

attendance.

Inhalation : If breathed in, move person into fresh air.

Consult a physician after significant exposure.

Skin contact : Take off contaminated clothing and shoes immediately.

Rinse immediately with plenty of water.

Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with

difficulty.

Eye contact : Rinse with plenty of water.

Get medical attention immediately. Continue to rinse during

transport of patient. Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

Small amounts splashed into eyes can cause irreversible

tissue damage and blindness.

Ingestion : Clean mouth with water and drink afterwards plenty of water.

Never give anything by mouth to an unconscious person.

Take victim immediately to hospital.

Do not induce vomiting! May cause chemical burns in mouth

and throat.

Notes to physician

Symptoms : The symptoms and effects are as expected from the hazards

as shown in section 2. No specific product related symptoms

are known.

Treatment : Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide.

Specific hazards during fire fighting / Specific hazards arising from the chemical

: CAUTION: reignition may occur.

Supports combustion.

Water spray may be ineffective unless used by experienced

firefighters.

Heating may cause decomposition with release of toxic fumes. Do not allow run-off from fire fighting to enter drains or water

courses.

Combustion products : Fire will produce smoke containing hazardous combustion

products (see section 10).

Special protective equipment

for fire-fighters

: In the event of fire, wear self-contained breathing apparatus.

Further information : Use water spray to cool unopened containers.

Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

See also Section 9. Physical and chemical properties: Safety data

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Use personal protective equipment.

Ensure adequate ventilation. Remove all sources of ignition.

Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precautions : Prevent product from entering drains.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods for cleaning up / Methods for containment

: Keep wetted with water.

Soak up with inert absorbent material and dispose of as

hazardous waste.

Confinement must be avoided.

Never return spills in original containers for re-use.

Additional advice : For personal protection see section 8.

7. HANDLING AND STORAGE

Handling

Advice on safe handling : For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national

regulations.

Advice on protection against

fire and explosion

Use explosion protected equipment.

Keep away from sources of ignition - No smoking.

No sparking tools should be used.

Keep away from reducing agents (e.g. amines), acids, alkalies and heavy metal compounds (e.g. accelerators, driers, metal

soaps).

Do not cut or weld on or near this container even when empty.

Keep away from combustible material.

Temperature class : It is recommended to use electrical equipment of temperature

group T3. However, autoignition can never be excluded.

Storage

Requirements for storage areas and containers

: Prevent unauthorized access.

No smoking.

Electrical installations / working materials must comply with

the technological safety standards. Keep only in original container. Store away from other materials.

Maximum storage

temperature:

: 30 °C (86 °F)

Other data : No decomposition if stored and applied as directed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Ingredients with workplace control parameters

Ingredients	CAS-No.	Value	Control parameters	Update	Basis	Form of exposure
Methyl ethyl ketone peroxide	1338-23-4	С	0.2 ppm	2013-03-01	ACGIH	
	Further information	Live	irritation er damage nev damage	•		

			Skin	irritation			
		С		0.2 ppm 1.5 mg/m3	2013-10-08	NIOSH REL	
		С		0.7 ppm 5 mg/m3	1989-01-19	OSHA P0	
Hydrogen peroxide	7722-84-1	TWA		1 ppm	2013-03-01	ACGIH	
	Further information	:	Eye Skin A3:	er Respiratory Tract irritation irritation Confirmed animal ca	ırcinogen with unkr	nown relevance t	o humans
		TWA	L	1 ppm 1.4 mg/m3	2013-10-08	NIOSH REL	
		TWA		1 ppm 1.4 mg/m3	1997-08-04	OSHA Z-1	
	Further information	:	. ,	The value in mg/m3			
		TWA		1 ppm 1.4 mg/m3	1989-01-19	OSHA P0	
Methyl ethyl ketone	78-93-3	TWA		200 ppm	2013-03-01	ACGIH	
	Further information	:	Uppe Perip BEI:	tral Nervous System er Respiratory Tract pheral Nervous Syst Substances for whi BEI® section)	irritation em impairment	ical Exposure Inc	lex or Indices
		STEL		300 ppm	2013-03-01	ACGIH	
	Further information	:	Uppe Perip BEI:	rial Nervous System er Respiratory Tract bheral Nervous Syst Substances for whi BE® section)	irritation em impairment	ical Exposure Inc	lex or Indices
		TWA		200 ppm 590 mg/m3	2013-10-08	NIOSH REL	
		ST		300 ppm 885 mg/m3	2013-10-08	NIOSH REL	
		TWA		200 ppm 590 mg/m3	1997-08-04	OSHA Z-1	
	Further information	:	. ,	The value in mg/m3			
		TWA		200 ppm 590 mg/m3	1989-01-19	OSHA P0	
		STEL	-	300 ppm 885 mg/m3	1989-01-19	OSHA P0	

STEL: Short term exposure limit TWA: Time Weighted Average

Occupational exposure limits of decomposition products

Decomposition products	CAS-No.	Valu	ue	Control parameters	Update	Basis	Form of exposure
Formic acid	64-18-6, 64- 18-6	TWA		5 ppm	2013-03-01	ACGIH	
	Further information	:	Eye	er Respiratory Tract irr irritation irritation	ritation		
		STEL		10 ppm	2013-03-01	ACGIH	
	Further information	:	Eye	er Respiratory Tract irr irritation irritation	ritation		
		TWA		5 ppm 9 mg/m3	2013-10-08	NIOSH REL	
		TWA		5 ppm 9 mg/m3	2011-07-01	OSHA Z-1	
	Further information	:	(b):	The value in mg/m3 is	approximate.		
		TWA		5 ppm	1989-01-19	OSHA P0	

				9 mg/m3	1	1	I	
Acetic acid	64-19-7, 64- 19-7	TWA		10 ppm	2013-03-01	ACGIH		
	Further	:		onary function				
	information			er Respiratory Tract in	ritation			
		STEL		irritation 15 ppm	2013-03-01	ACGIH		
		SILL	-	13 ррш	2013-03-01	ACGIT		
	Further	:	Pulm	onary function				
	information		Uppe	er Respiratory Tract in	rritation			
				irritation				
		TWA		10 ppm	2013-10-08	NIOSH REL		
	Further	: 1	Can	25 mg/m3 be found in concentr	ations of 5, 8% in a	vinogar		
	information	•	Can	be round in concern	ations of 5-676 in	viriegai		
		ST		15 ppm	2013-10-08	NIOSH REL		
				37 mg/m3				
	Further	:	Can	be found in concentr	ations of 5-8% in	vinegar		
	information	73.474		1.40	1 4007 00 04	T 00114 7 4	T	
		TWA		10 ppm 25 mg/m3	1997-08-04	OSHA Z-1		
	Further	: 1	(p).	25 mg/ms The value in mg/m3 is	s approximate	1	I	
	information	.	(5).	value ili liig/ilib is	approximate.			
		TWA		10 ppm	1989-01-19	OSHA P0		
				25 mg/m3				
Propionic acid	79-09-4, 79- 09-4	TWA		10 ppm	2013-03-01	ACGIH		
	Further	:		er Respiratory Tract in	rritation			
	information			irritation				
		TWA		irritation	2013-10-08	NIOSH REL		
		IVVA		10 ppm 30 mg/m3	2013-10-06	NOSH KEL		
		ST		15 ppm	2013-10-08	NIOSH REL		
				45 mg/m3				
		TWA		10 ppm	1989-01-19	OSHA P0		
				30 mg/m3				
Methyl ethyl ketone	78-93-3, 78- 93-3	TWA		200 ppm	2013-03-01	ACGIH		
	Further	:		ral Nervous System i				
	information		Uppe	er Respiratory Tract in	ritation			
			REI:	pheral Nervous Syste Substances for which	h there is a Riolog	ical Exposure Ind	ex or Indices	
				BEI® section)		.cai Etpoodio Illa	o. o. maiooo	
		STEL	•	300 ppm	2013-03-01	ACGIH		
	<u> </u>				1			
	Further	:	Central Nervous System impairment					
	information		Upper Respiratory Tract irritation Peripheral Nervous Systemimpairment					
			BEI:	Substances for which	:h there is a Biolog	ical Exposure Ind	ex or Indices	
				BEI® section)				
		TWA		200 ppm	2013-10-08	NIOSH REL		
				590 mg/m3	0040 12 22			
		ST		300 ppm	2013-10-08	NIOSH REL		
		TWA		885 mg/m3 200 ppm	1997-08-04	OSHA Z-1	-	
		IVVA		200 ppm 590 mg/m3	1997-06-04	USTA Z-1		
	Further	: 1	(b):	The value in mg/m3 is	s approximate.		L	
	information	•	(~).					
		TWA		200 ppm	1989-01-19	OSHA P0		
				590 mg/m3				
		STEL	-	300 ppm	1989-01-19	OSHA P0		
				885 mg/m3				

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Update
CADOX L-50A RED		methyl ethyl ketone: 2 mg/l (Urine)	End of shift	2014-03-01

Remarks:

a No time limit

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b Immediately after exposition or after working hours

c In case of long-term exposition: after more than one shift

d Before the next shift

Engineering measures

Explosion proof ventilation recommended. Effective exhaust ventilation system

Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Eye/face protection : Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Hand protection : Glove material: butyl-rubber

: Glove material: Neoprene

Skin and body protection : Protective suit

Respiratory protection : In the case of vapor or aerosol formation use a respirator with

an approved filter.

Filter A

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice.

When using do not eat or drink. When using do not smoke.

Wash hands before breaks and at the end of workday.

Environmental exposure controls

General advice : Prevent product from entering drains.

If the product contaminates rivers and lakes or drains inform

respective authorities.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form : liquid

Color : red

Odor : faint

Odor Threshold : No data available

Safety data

pH : Weakly acidic

Melting point : No data available

Boiling point/boiling range : Decomposes below the boiling point.

Flash point : Not applicable

Evaporation rate : No data available

Flammability (solid, gas) : Not applicable

Lower explosion limit : Not applicable

Upper explosion limit : Not applicable

Vapor pressure : not determined

Relative vapor density : No data available

Relative density : 1.0 at 20 °C

Bulk density : Not applicable

Water solubility : partly miscible

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

Autoignition temperature : The substance or mixture is not classified as pyrophoric.

Decomposition temperature : SADT - (Self accelerating decomposition temperature) is the

lowest temperature at which self accelerating decomposition may occur with a substance in the packaging as used in transport. A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be caused by thermal decomposition at and above the SADT. Contact with incompatible substances can cause

decomposition below the SADT.

Self-Accelerating

decomposition temperature

(SADT)

: 60 °C

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Explosive properties : Not explosive

Oxidizing properties : Not classified as oxidizing.

Active Oxygen Content : 8.8 - 9.0 %

Organic peroxides : 30 - 35 %

This material safety datasheet only contains information relating to safety and does not replace any product information or product specification.

10. STABILITY AND REACTIVITY

Conditions to avoid : Confinement must be avoided.

Heat, flames and sparks.

For safety, store below:

30 °C (86 °F)

Materials to avoid : Contact with incompatible materials will result in hazardous

decomposition.

For queries regarding the suitability of other materials please

contact the supplier.

Do not mix with peroxide accelerators, unless under controlled

processing.

Use only stainless steel 316, PP, polyethylene or glass-lined

equipment.
Acids and bases

Iron Copper

Reducing agents Heavy metals

Rust

Hazardous decomposition

products

Carbon oxides
Formic acid
Acetic acid
Propionic acid
Methyl ethyl ketone

Thermal decomposition : SADT - (Self accelerating decomposition temperature) is the

lowest temperature at which self accelerating decomposition may occur with a substance in the packaging as used in transport. A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be caused by thermal decomposition at and above the SADT. Contact with incompatible substances can cause

decomposition below the SADT.

Reactivity : Stable under normal conditions.

Chemical stability : Stable under recommended storage conditions.

Hazardous reactions : No dangerous reaction known under conditions of normal use.

Self-Accelerating

decomposition temperature

(SADT)

: 60 °C (140 °F)

11. TOXICOLOGICAL INFORMATION

PRODUCT INFORMATION:

Toxicology Assessment

Further information : Suspected of damaging fertility or the unborn child.

Test result

Acute oral toxicity : Acute toxicity estimate: 2,817 mg/kg

Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 40 mg/l

Exposure time: 4 h
Test atmosphere: vapor
Method: Calculation method

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Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg

Method: Calculation method

Carcinogenicity:

IARC : No ingredient of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA : No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP : No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated

carcinogen by NTP.

ACGIH : Confirmed animal carcinogen with unknown relevance to

humans

Hydrogen peroxide solution 7722-84-1

TOXICOLOGY DATA FOR THE INGREDIENTS:

Toxicology Assessment

Component: C.I. Solvent Red 164

CMR effects : Reproductive toxicity: Suspected human reproductive toxicant

Test result

Component: Methyl ethyl ketone peroxide

Acute oral toxicity : LD50: 1,017 mg/kg

Species: Rat

Acute inhalation toxicity : LC50 (Rat): 17 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Skin irritation : Result: Causes burns.

Eye irritation : Result: Risk of serious damage to eyes.

Germ cell mutagenicity

Genotoxicity in vitro : Ames test

Result: negative

Reproductive toxicity/Fertility : Species: Rat, male and female

Application Route: Oral

Dose: 0, 25, 50, 75 milligram per kilogram

General Toxicity Parent: NOAEL (No observed adverse effect

level): 50 mg/kg body weight/day

General Toxicity F1: No observed adverse effect level F1: 50

mg/kg body weight/day

Fertility: No observed adverse effect level Parent: 75 mg/kg

body weight/day

Method: OECD Test Guideline 421

GLP: yes

Target Organ Systemic

Toxicant - Repeated

exposure

: The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

Aspiration toxicity : No aspiration toxicity classification

Component: Hydrogen peroxide solution

Acute oral toxicity : LD50: 602 mg/kg

Species: Rat

Method: OECD Test Guideline 401

Literature data.

Acute inhalation toxicity : LC50 : 20 mg/l

Exposure time: 4 h Method: Expert judgment

Assessment: The substance or mixture is classified as specific

target organ toxicant, single exposure, category 3 with

respiratory tract irritation.

Skin irritation : Result: Causes severe burns.

Germ cell mutagenicity

Genotoxicity in vivo : Species: Mouse

Method: Mutagenicity (micronucleus test)

Result: negative Literature data.

Component: Methyl ethyl ketone

Acute oral toxicity : LD50: 2,737 mg/kg

Species: Rat

Skin irritation : Result: Repeated exposure may cause skin dryness or

cracking.

Moderately irritating.

Eye irritation : Result: Irritating to eyes.

Target Organ Systemic : Routes of exposure: Inhalation

Toxicant - Single exposure The substance or mixture is classified as specific target organ

toxicant, single exposure, category 3 with narcotic effects.

Aspiration toxicity : No aspiration toxicity classification

Component: C.I. Solvent Red 164

Aspiration toxicity : No aspiration toxicity classification

12. ECOLOGICAL INFORMATION

PRODUCT INFORMATION:

Ecotoxicology Assessment

Additional ecological

information

: An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Harmful to aquatic life with long lasting effects.

Further information on ecology

Hazardous to the ozone layer

Regulation : 40 CFR Protection of Environment; Part 82 Protection of

Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks : This product neither contains, nor was manufactured with a

Class I or Class II ODS as defined by the U.S. Clean Air Act

Section 602 (40 CFR 82, Subpt. A, App.A + B).

INGREDIENTS:

Ecotoxicology Assessment

Component: Methyl ethyl ketone peroxide

Acute aquatic toxicity : Harmful to aquatic life.

Component: Hydrogen peroxide solution

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Test result

Component: Methyl ethyl ketone peroxide

Ecotoxicity effects

Toxicity to fish : LC50: 44.2 mg/l

Exposure time: 96 h

Species: Poecilia reticulata (guppy)

Test Type: semi-static test

Toxicity to daphnia and other :

aquatic invertebrates

39 mg/l

Exposure time: 48 h

Species: Daphnia magna (Water flea)

Test Type: Immobilization

Toxicity to algae : LC50: 5.6 mg/l

Exposure time: 72 h

Species: Pseudokirchneriella subcapitata (algae)

Test Type: Growth inhibition

Toxicity to bacteria : EC10: 12 mg/l

Exposure time: 0.5 h
Species: activated sludge
Test Type: Respiration inhibition

Method: Domestic OECD Guideline 209

Elimination information (persistence and degradability)

Biodegradability : Result: Readily biodegradable.

Method: Closed Bottle test

Component: Hydrogen peroxide solution

Ecotoxicity effects

Toxicity to fish : LC50: 16.4 mg/l

Exposure time: 96 h

Species: Pimephales promelas (fathead minnow)

Test Type: semi-static test

Literature data.

Toxicity to daphnia and other

aquatic invertebrates

: LC50: 2.4 mg/l

Exposure time: 48 h

Species: Daphnia pulex (Water flea)

Test Type: semi-static test

Literature data.

Toxicity to algae : ErC50: 1.38 mg/l

Exposure time: 72 h

Species: Skeletonema costatum

Test Type: static test Literature data.

Elimination information (persistence and degradability)

Bioaccumulation : Bioaccumulation is unlikely.

Mobility : Can be leached out from soil.

Distribution among

environmental compartments

: Transport to air is not expected.

Further information on ecology

Biochemical Oxygen

: No data available

Demand (BOD)

Component: Methyl ethyl ketone

Ecotoxicity effects

Toxicity to fish : LC50: 3,220 mg/l

Exposure time: 96 h

Species: Lepomis macrochirus (Bluegill sunfish)

Elimination information (persistence and degradability)

Biodegradability : Result: Readily biodegradable.

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13. DISPOSAL CONSIDERATIONS

Product : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Hazardous waste

Dispose of contents/container in accordance with local

regulation.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product.

Do not burn, or use a cutting torch on, the empty drum. Due to the high risk of contamination recycling/recovery is not

recommended.

Follow all warnings even after the container is emptied.

14. TRANSPORT INFORMATION

International Regulation

IATA-DGR

UN/ID No. : UN 3105

Proper shipping name Organic peroxide type D, liquid

(Methyl ethyl ketone peroxide)

5.2 Subsidiary risk : HEAT

Packing group : Not Assigned 5.2 (HEAT) Labels 570

Packing instruction (cargo

aircraft)

Packing instruction : 570

(passenger aircraft)

Environmentally hazardous : no

IMDG-Code

UN number : UN 3105

Proper shipping name ORGANIC PEROXIDE TYPE D, LIQUID

(Methyl ethyl ketone peroxide)

Class : 5.2

Packing group Not Assigned

Labels 5.2 EmS Code F-J, S-R Marine pollutant no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49 CFR

UN/ID/NA number : UN 3105

Proper shipping name Organic peroxide type D, liquid

(Methyl ethyl ketone peroxide, <=45%)

Class : 5.2 Packing group : 11 Labels : 5.2 145 **ERG Code** Marine pollutant no

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Reportable Quantity : This product contains the following substance(s) which are

environmentally hazardous per 49 CFR 172.101, Appendix A:

(Methyl ethyl ketone peroxide)

15. REGULATORY INFORMATION

Notification status

CH INV : YES. On the inventory, or in compliance with the inventory

TSCA : YES. All chemical substances in this product are either listed on the

TSCA Inventory or in compliance with a TSCA Inventory exemption.

DSL : YES. All components of this product are on the Canadian DSL.

AICS : NO. Not in compliance with the inventory

NZIoC : NO. On the inventory, or in compliance with the inventory

ENCS : NO. Not in compliance with the inventory ISHL : NO. Not in compliance with the inventory

YES. On the inventory, or in compliance with the inventory
 YES. On the inventory, or in compliance with the inventory
 YES. On the inventory, or in compliance with the inventory

For explanation of abbreviations, see section 16.

TSCA list : Not relevant

OSHA Hazards : Organic Peroxide, Harmful by ingestion., Corrosive to skin,

Corrosive to eyes, Corrosive to respiratory system.,

Reproductive hazard

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

Ingredients	CAS-No.	Component RQ
		(lbs)
Methyl ethyl ketone peroxide	1338-23-4	10 lbs

SARA 304 Extremely Hazardous Substances Reportable Quantity

Ingredients	CAS-No.	Component RQ (lbs)
Hydrogen peroxide solution	7722-84-1	1000 lbs

SARA 311/312 Hazards : Reactivity Hazard

Acute Health Hazard Chronic Health Hazard

SARA 302 : The following components are subject to reporting levels

established by SARA Title III, Section 302:

Hydrogen peroxide solution 7722-84-1

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals subject to disclosure and listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

Methyl ethyl ketone 78-93-3

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

Methyl ethyl ketone peroxide	1338-23-4	30 - 50 %
Hydrogen peroxide solution	7722-84-1	1 - 5 %
Methyl ethyl ketone	78-93-3	1 - 5 %

Pennsylvania Right To Know

2,2,4-Trimethyl-1,3-pentanediol	6846-50-0	50 - 70 %
diisobutanoate		
Methyl ethyl ketone peroxide	1338-23-4	30 - 50 %
Hydrogen peroxide solution	7722-84-1	1 - 5 %
Methyl ethyl ketone	78-93-3	1 - 5 %

New Jersey Right To Know

2,2,4-Trimethyl-1,3-pentanediol diisobutanoate	6846-50-0	50 - 70 %
Methyl ethyl ketone peroxide	1338-23-4	30 - 50 %
Water	7732-18-5	1 - 5 %
Hydrogen peroxide solution	7722-84-1	1 - 5 %
Methyl ethyl ketone	78-93-3	1 - 5 %

California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

16. OTHER INFORMATION

Full text of H-Statements

H225	: Highly flammable liquid and v	apor.
H240	: Heating may cause an explos	ion.
1.16-4		

H271 : May cause fire or explosion; strong oxidizer.

H302 : Harmful if swallowed.

H314 : Causes severe skin burns and eye damage.

H318 : Causes serious eye damage. H319 : Causes serious eye irritation.

H332 : Harmful if inhaled.

H335 : May cause respiratory irritation. H336 : May cause drowsiness or dizziness.

H361 : Suspected of damaging fertility or the unborn child.

H401 : Toxic to aquatic life. H402 : Harmful to aquatic life.

H412 : Harmful to aquatic life with long lasting effects.

Further information

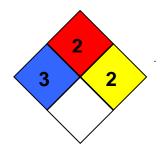
HMIS Classification : Health Hazard: 3

Chronic Health Hazard: *

Flammability: 2 Reactivity: 2

NFPA Classification : Health Hazard: 3

Fire Hazard: 2 Reactivity Hazard: 2



Notification status explanation

REACH 1907/2006 (EU)

CH INV Switzerland. New notified substances and declared preparations

TSCA United States TSCA Inventory

DSL Canadian Domestic Substances List (DSL)

AICS Australia Inventory of Chemical Substances (AICS)
NZIOC New Zealand. Inventory of Chemical Substances

ENCS Japan. ENCS - Existing and New Chemical Substances Inventory

ISHL Japan. ISHL - Inventory of Chemical Substances KECI Korea. Korean Existing Chemicals Inventory (KECI)

PICCS Philippines Inventory of Chemicals and Chemical Substances

(PICCS)

IECSC China. Inventory of Existing Chemical Substances in China (IECSC)

Further information

Revision Date 04/29/2015

The information in this material safety data sheet should be provided to all who will use, handle, store, transport or otherwise be exposed to this product. The user must determine the appropriate measures that need to be implemented for the use and handling of this product in the c ontext of the user's operations and use of this product. The information contained herein supersedes all previously issued bulletins on the subject matter covered. If the date on this document is more than three years old, call to make certain that this sheet is current. No warranty is made as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. User must determine for himself, by preliminary tests or otherwise, the suitability of this product for his purposes, including mixing with other products. Nothing contained herein shall be construed as granting or extending any license under any patent.

The information provided in this Material 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.