



CDR S.r.l.  
Via degli Artigiani, 6  
50020 Ginestra F.na (FI)

MATERIAL SAFETY DATA SHEET

**PEROXIDES TEST KIT ON OILS/FATS**

Revision: 0  
of 08/11/2012

Date of compilation: 08/11/2012

In accordance with EC Directive 1907/06 and Regulation (EU) 453/2010

**1. Identification of the substance/mixture and of the company/enterprise**

1.1 Product identifier: **PEROXIDES R1**

1.2 Relevant identified uses of the substance or mixture:  
Reagent for food analysis

1.3 Details of the supplier of the safety data sheet:

**CDR S.r.l.**

**Via degli Artigiani, 6**

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**+39 055-871431**

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**2. Hazards identification**

2.1 Classification of the substance or mixture

**Classification according to Directive 67/548/EEC - Directive 1999/45/EC :**

F; R11, Xi; R41, R 67

**Nature of special risks attributed:**

R11 - Highly flammable.

R41 - Risk of serious damage to eyes.

R67 - Vapours may cause drowsiness and dizziness.

The product easy inflames if subordinate to an ignition source (flash point < 21° C).

2.2. Label elements:

**Warning symbols:**

F - Highly flammable

Xi - Irritant



**Hazard sentences (R):**

R11 - Highly flammable.

R41 - Risk of serious damage to eyes.

R67 - Vapours may cause drowsiness and dizziness.

**Caution recommendations (S):**

S7/9 - Keep container tightly closed and in a well-ventilated place.

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Product: **PEROXIDES TEST KIT ON OILS/FATS**

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- S16 - Keep away from sources of ignition - No smoking.  
S25 - Avoid contact with eyes.  
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S29 - Do not empty into drains.  
S33 - Take precautionary measures against static discharges.  
S39 - Wear eye/face protection.  
S60 - This material and its container must be disposed of as hazardous waste.  
S64 - If swallowed, rinse mouth with water (only if the person is conscious).

2.3 Other hazards:  
none information

### 3. Composition/Information on ingredients

Chemical composition:

Mixture

Name	Concentration (C)	Classification			
		Directive 67/ 548/CEE		Regulation CE/1272/2008	
propan-1-ol Cas No 71-23-8 CE No 200-746-9 INDEX No 603-003-00-0	75 <= C < 85	F Xi	R11 R41 R67	Flam.Liq.2 Eye Dam. 1 STOT SE 3	H225 H318 H336
ethanol Cas No 64-17-5 CE No 200-578-6 INDEX No 603-002-00-5	15 <= C < 25	F	R11	Flam.Liq.2	H225

The complete text of -R- phrases is specified in section 16.

### 4. First-aid measures

#### 4.1 Description of first aid measures

##### Inhalation

Remove to fresh air. If breathing is irregular seek medical advice.

##### Skin contact

Remove contaminated clothing. Wash immediately with plenty of water and soap. In case of irritation seek medical attention. Wash contaminated clothing before using them.

##### Eyes contact

Irrigate copiously with clean, fresh water for at least 15 minutes, keeping opened eyes. Seek medical attention immediately.

##### Ingestion

Obtain medical attention immediately. Don't induce vomiting. Never give anything by mouth to an unconscious person.

##### Other

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Product: **PEROXIDES TEST KIT ON OILS/FATS**

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Change contaminated clothing.

4.2. Most important symptoms and effects, both acute and delayed  
not available

4.3. Indication of any immediate medical attention and special treatment needed  
not available

## **5. Fire-fighting measures**

### 5.1 Extinguishing media

*Advised extinguishing agents:*

CO<sub>2</sub>, foam, chemical powder for flammable liquids.

*Unappropriate extinction methods:*

Jets of water. Water may not be effective to extinguish the fire, nevertheless it should be used to cool the containers exposed to flames and prevent fires and explosions. For leakage and spillage that have not caught fire, nebulized water may be used to disperse the flammable vapours and protect the people involved in stopping the leakage.

### 5.2. Special hazards arising from the substance or mixture

The product under fire condition may develop irritant/toxic gas (CO<sub>x</sub>, NO<sub>x</sub>, SO<sub>x</sub>)

### 5.3. Advice for firefighters

Wear equipment complete with helmet and face shield and protection of the neck, selfbreathing apparatus at pressure or demand, insulative jacket and trousers, with bands around the arms, legs and waist. Water used in fire-fighting has to be disposed following Local regulation.

## **6. Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. In case of formation of vapours use suitable protective devices. Supply a good air circulation. Move away any unauthorised person. Exclude any source of ignition.

### 6.2. Environmental precautions

Collect the product in suitable container for disposal. Notify authorities if product enters sewer or public waters.

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

Cover the spillage with inert absorbent material. Collect as far as possible the resulting mass and discard the remainder by spraying water.

### 6.4 Reference to other sections

Refer to paragraphs 8 and 13 for more information.

## **7. Handling and storage**

### 7.1. Precautions for safe handling

Vapours may ignite with explosion, it is therefore necessary to avoid accumulation keeping the windows and doors open, ensuring crossventilation. Without adequate ventilation, the vapours may accumulate at the bottom and ignite at a distance, if triggered off, with the risk of flashback.

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Product: **PEROXIDES TEST KIT ON OILS/FATS**

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Keep far away from sources of heat, naked flames and sparks and other sources.

7.2. Conditions for safe storage, including any incompatibilities

Store the packaging closed in a fresh and ventilated area, far from sources of ignition. Store at temperatures between 15-25° C.

7.3. Specific end use(s)

For particular uses of the product, is necessary to refer to the specific information or contact the technical service of the Company.

<b>8. Exposure controls/personal protection</b>
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8.1. Control parameters

**propan-1-olo**

TLV: 200 ppm as TWA 400 ppm STEL as A3 (confirmed animal carcinogen with unknown relevance to humans); Proposed amendments (ACGIH 2005).

DNEL (workers)

Systemic effects to short-term exposure - Inhalation: 1723 mg/m<sup>3</sup>

Systemic effects to long-term exposure - Inhalation: 268 mg/m<sup>3</sup>

Systemic effects to long-term exposure – dermal: 136 mg/Kg bw

PNEC

Fresh water :10 mg/l

Seawater: 1 mg/l

Intermittent Release: 10 mg/l

STP: 96 mg/l

Sediment (freshwater): 22,8 mg/kg dw

Sediment ( seawater): 2,28 mg/kg dw

Soil: 2,2 mg/kg peso secco

**ethanol**

TLV-ACGH:1880mg/m<sup>3</sup>(as TWA)

DNEL:

Systemic effects to long-term exposure - dermal: 343 mg / kg

Systemic effects to long-term exposure - Inhalation: 950 mg/m<sup>3</sup>

PNEC:

Fresh water: 0.96 mg / l

Seawater: 0.79 mg / l

Intermittent Release: 2.75 mg / l

STP: 580 mg / l

Sediment (freshwater): 3.6 mg / kg

Sediment ( seawater): 2.9 mg / kg

Soil: 0.63 mg / kg

Oral: 0.72 mg / kg

8.2 Exposure controls

Avoid all unnecessary exposure, handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke while handling it. Accurately wash the hands with soap and water before meals and at the end of the work shift.

8.3 Individual protection

The DPI's choice must be done on the basis of the test's results obtained according to the rule EN 374

Hand protection: : protective gloves (nitrile, butyl rubber, PVC)

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Product: **PEROXIDES TEST KIT ON OILS/FATS**

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Eye protection : protective goggles  
Skin protection : suitable protective clothing  
Respiratory protection : mask with filter (type A)

**9. Physical and chemical properties**

Physical and chemical properties	Value	Determination method
Appearance	colourless liquid	
Odour	characteristic	
Odour threshold	not available	
pH	not available	
Melting point/freezing point	not available	
Initial boiling point and boiling range	not available	
Flash point	< 21°C	
Evaporation rate	not available	
Flammability (solid, gas)	not pertinent	
Upper/lower flammability or explosive limits	not available	
Vapour pressure	not available	
Vapour density	not available	
Relative density	not available	
Solubility	soluble in water	
Water solubility	soluble	
Partition coefficient: n-octanol/water	not available	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
Viscosity	not available	
Explosive properties	not explosive	
Oxidising properties	not oxidising	

*9.2. Other information*

VOC (Directive 1999/13/CE): about 100%

**10. Stability and reactivity**

*10.1. Reactivity*

In contact with strong oxidants exothermal reaction may occur.

*10.2. Chemical stability*

The product is stable in normal conditions of use and storage.

*10.3. Possibility of hazardous reactions*

**ethanol:** It reacts slowly with calcium hypochlorite, silver oxide and ammonia, causing fire and explosion. It reacts violently with strong oxidants such as nitric acid, silver nitrate, mercury nitrate or magnesium perchlorate, causing fire and explosion.

*10.4. Conditions to avoid*

none information

*10.5. Incompatible materials*

none information

*10.6. Hazardous decomposition products*

Due to thermal decomposition or in the event of a fire vapours may be produced potentially dangerous to health (CO<sub>x</sub>, NO<sub>x</sub>, SO<sub>x</sub>).

<b>11. Toxicological information</b>
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*11.1. Information on toxicological effects*

Acute effects:

If brought into contact with eyes, the product causes serious damages to eyes, such as an opaque cornea or injury to iris.

Warning: Vapours inhalation may cause sleepiness and giddiness.

**propan-1-olo**

**ROUTES OF EXPOSURE:**The substance can be absorbed into the body by inhalation of its vapour and by ingestion.

**INHALATION RISK:** A harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20°C; on spraying or dispersing, however, much faster.

**EFFECTS OF SHORT-TERM EXPOSURE:** The substance is irritating to the eyes. The substance may cause effects on the central nervous system. Exposure to high concentrations may result in unconsciousness.

**EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:**The liquid degrades the skin.

**ACUTE HAZARDS / SYMPTOMS**

**INHALATION** Loss of coordination of movements. Confusion. Dizziness. Drowsiness.

Headache. Nausea. Weakness.

**SKIN** Dry skin.

**EYES** Redness. Pain. Blurred vision.

**INGESTION** Abdominal pain. Sore throat. Vomiting. (See Inhalation).

**NOTES** Use of alcoholic beverages enhances the harmful effect.

LD50 about 8000 mg / kg body weight (oral, rat)

LD50 4032 mg / kg body weight (dermal, rabbit)

**ethanol**

**ROUTES OF EXPOSURE:** The substance can be absorbed into the body by inhalation of its vapor and ingestion.

**INHALATION RISK:** A harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20 ° C.

**SHORT TERM EFFECTS OF EXPOSURE:** The substance 'irritating to eyes. Inhalation of high concentration of vapor may cause irritation of the eyes and respiratory tract. The substance may cause effects on the central nervous system.

**REPEATED OR LONG TERM EFFECTS OF EXPOSURE:** The liquid degrades the skin. The substance may have effects on the high central nervous system, respiratory tract, causing irritation, headaches, tiredness and lack of concentration. See Notes.

**ACUTE HAZARDS / SYMPTOMS**

**INHALATION** Cough. Headache. Fatigue. Drowsiness.

**SKIN** Dry skin.

Bloodshot eyes. Pain. Burn.

**INGESTION** Cough. Headache. Confusion. Vertigo. Unconsciousness.

**NOTES** Ethanol consumption during pregnancy can have adverse effects on the unborn child. Chronic ingestion of ethanol may cause liver cirrhosis.

Corrosive/irritation power:

Eyes: serious ocular lesions

Skin: slightly irritant for long contacts

**12. Ecological information**

*12.1. Toxicity:*

Use this product according to good working practices. Avoid litter. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation.

**propan-1-olo**

LC50 4555 mg/L/96h (Pimephales promelas)  
EC50 3644 mg/L/48 h (Daphnia magna)  
EC50 > 100 mg/L/21 days (Daphnia magna)  
EC50 9170 mg/L/48h (Pseudokirchnerella subcapitata)

**ethanol**

LC50:> 8140 mg/l/48h (Leuciscus idus)

*12.2. Persistence and degradability:*

**propan-1-olo:** readily biodegradable Degr. 76% (10 days)

**ethanol:** Biodegradability: 94%

*12.3. Bioaccumulative potential:*

**propan-1-olo:** logPow: 1.6

**ethanol:** logPow: <-0.32

*12.4. Mobility in soil:* not available

*12.5. Results of PBT and vPvB assessment:* not available

*12.6. Other adverse effects:* not available

*This product doesn't contain AOX*

**13. Disposal considerations**

Operate following the current Local or National Laws.

The non reclaimed containers have to be disposed as the product.

Consider the possibility of burning the product in a suitable incinerator.

**14. Transport information**

These goods must be packed in their original packings or in packings made of materials resistant to their content and not reacting dangerously with it. This good, being shipped under the provision for limited quantity, is packed and labelled in accordance with ADR Regulation –chapter 3.4- IMDG Code –chapter 3.4- IATA regulation – chapter 5.0.3- (i.e. 0.5 l for inner packaging max. and 1 l for outer packaging max.) and no other provision has to be respected.

**RID/ADR:**

UN number:	1987	Class:	3
Classification:	F1	Packing group:	II
Tunnel restriction code:	(D/E)		

**Transport by sea (IMDG Code):**

UN number:	1987	Class:	3
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Product: **PEROXIDES TEST KIT ON OILS/FATS**

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Packaging group: II EmS: F-E, S-D  
Marine pollutant no  
**Transport by air (ICAO-IATA):**  
Class: 3 Packaging group: II  
**Shipping name:** *Alcohols, n.o.s. (Contains: propan-1-ol, ethanol)*  
**Labelling:**



**15. Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation	Cas	Substance
428/2009 ex CE 1334/2000 Ann.1	-	-
273/04 Tab.1 Cat.1	-	-
273/04 Tab.1 Cat.2	-	-
273/04 Tab.1 Cat.3	-	-
1907/2006 Ann. XIV	-	-
1907/2006 (Substances SVHC)	-	-
276/2010 (amending Reg. CE 1907/2006 as regards Ann. XVII)	-	-
552/2009 (amending Reg. CE 1907/2006 as regards Ann. XVII)	-	-
2003/105/CE Ann.1 part 1	-	-
2003/105/CE Ann.1 part 2	-	Mixture classified HIGHLY FLAMMABLE

15.2. Chemical safety assessment  
none

**16. Further information**

**Description of the sentences of risk set out in paragraph 3**

H225 = Highly flammable liquid and vapour.  
H318 = Causes serious eye damage.  
H336 = May cause drowsiness or dizziness.

**Description of the safety advice (R) exposed to point 3:**

R11 = Highly flammable.  
R41 = Risk of serious damage to eyes.  
R67 = Vapours may cause drowsiness and dizziness.

*Classification based on data of all components of the mixture*

**GENERAL BIBLIOGRAPHY:**

1. Directive 1999/45/EC as amended
2. Directive 67/548/EEC and its amendments and adjustments (technical adjustment XXIX)
3. Regulation (EC) 1907/2006 of the European Parliament (REACH)
4. Regulation (EC) 1272/2008 of the European Parliament (CLP)



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Product: **PEROXIDES TEST KIT ON OILS/FATS**

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5. Regulation (EC) 790 / 2009
- 6.Regulation (EU) 453/2010
7. The Merck Index. Ed 10
8. Handling Chemical Safety
9. NIOSH - Registry of Toxic Effects of Chemical Substances
10. INRS - Fiche Toxicologique
11. Patty - Industrial Hygiene and Toxicology
12. NI Sax - Dangerous Properties of Industrial Materials-7, 1989 Edition

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product .

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

This sheet cancels and substitutes any previous edition.

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Product: **PEROXIDES TEST KIT ON OILS/FATS**

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### 1. Identification of the substance/mixture and of the company/enterprise

1.1 Product identifier: **PEROXIDES R2**

1.2 Relevant identified uses of the substance or mixture:  
*Reagent for food analysis*

1.3 Details of the supplier of the safety data sheet:

**CDR S.r.l.**

**Via degli Artigiani, 6**

**50020 Ginestra F.na (FI)**

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1.4 Emergency phone number:  
**+39 055-871431**

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### 2. Hazards identification

2.1 Classification of the substance or mixture

**Classification according to Directives 67/548/EEC – 1999/45/EC:**

This mixture is not dangerous under 67/548/EEC and 1999/45/EC directives and subsequent amendments.

**Nature of special risks attributed:** none

2.2. Label elements:

**Warning symbols:** none

**Hazard sentences (R):** none

**Caution recommendations (S):** none

2.3 Other hazards:

none information

### 3. Composition/Information on ingredients

Chemical composition: this mixture doesn't contain dangerous substances under 67/548/EEC and 1999/45/EC directives and subsequent amendments in concentration that must be declared in this section.

### 4. First-aid measures

4.1 Description of first aid measures

Inhalation

Remove to fresh air. If breathing is irregular seek medical advice.

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Product: **PEROXIDES TEST KIT ON OILS/FATS**

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Skin contact

Remove contaminated clothing. Wash immediately with plenty of water and soap. In case of irritation, seek medical attention. Wash contaminated clothing before using them.

Eyes contact

Irrigate copiously with clean, fresh water for at least 15 minutes. In case of irritation, seek medical advice.

Ingestion.

Rinse mouth with water immediately. Obtain medical attention. Never give anything by mouth to an unconscious person and if it is not indicated by the doctor. Don't induce vomiting.

Other

Change contaminated clothing.

4.2. Most important symptoms and effects, both acute and delayed  
not available

4.3. Indication of any immediate medical attention and special treatment needed  
not available

<b>5. Fire-fighting measures</b>
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5.1 Extinguishing media

*Advised extinguishing agents:*

CO<sub>2</sub>, nebulized water, foam, chemical powder

*Unappropriate extinction methods:*

none

5.2. Special hazards arising from the substance or mixture

The product under fire condition may develop irritant/toxic gas

5.3. Advice for firefighters

Wear the fire equipment all the time. Water used in fire-fighting has to be disposed following Local regulation.

<b>6. Accidental release measures</b>
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6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. In case of vapours use an adequate respiratory protection. Supply a good air circulation. Move away any unauthorised person.

6.2. Environmental precautions

Prevent contamination of surface water, soil and dispersion in the air with suitable means of containment.

6.3. Methods and material for containment and cleaning up

Cover the spillage with inert absorbent material. Collect as far as possible the resulting mass and discard the remainder by spraying water.

6.4 Reference to other sections

Refer to paragraphs 8 and 13 for more information.

## **7. Handling and storage**

### 7.1. Precautions for safe handling

Follow the good industrial hygiene and safety procedures. Do not smoke, eat or drink during the working processes. Supply good air circulation in working area.

### 7.2. Conditions for safe storage, including any incompatibilities

Store the packaging closed in a fresh and ventilated area, far from sources of ignition. Store at temperature between 15-25° C.

### 7.3. Specific end use(s)

For particular uses of the product, is necessary to refer to the specific information or contact the technical service of the Company.

## **8. Exposure controls/personal protection**

### 8.1. Control parameters

none information

### 8.2. Exposure controls

Avoid all unnecessary exposure, handle in accordance with good industrial hygiene and safety procedures. Avoid dust inhalation. Do not eat, drink or smoke while handling it. Accurately wash the hands with soap and water before meals and at the end of the work shift.

### Individual protection

The DPI's choice must be done on the basis of the test's results obtained according to the rule EN 374

Hand protection:	: protective gloves (nitrile)
Eye protection	: protective goggles
Skin protection	: suitable protective clothing
Respiratory protection	: mask with filter (type A/FFP1) if there are vapours

## **9. Physical and chemical properties**

<b>Physical and chemical properties</b>	<b>Value</b>	<b>Determination method</b>
Appearance	liquid	
Odour	characteristic	
Odour threshold	not available	
pH	2	
Melting point/freezing point	not available	
Initial boiling point and boiling range	not available	
Flash point	not available	
Evaporation rate	not available	
Flammability (solid, gas)	not pertinent	
Upper/lower flammability or explosive limits	not pertinent	
Vapour pressure	not available	
Vapour density	not available	
Relative density	not available	
Solubility	soluble in water	
Water solubility	soluble	
Partition coefficient: n-octanol/water	not available	
Auto-ignition temperature	not available	

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Product: **PEROXIDES TEST KIT ON OILS/FATS**

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Decomposition temperature	not available
Viscosity	not available
Explosive properties	not explosive
Oxidising properties	not oxidising

9.2. *Other information*  
VOC (Directive 1999/13/CE): -%

**10. Stability and reactivity**

10.1. *Reactivity*

In contact with strong oxidants exothermal reaction may occur.

10.2. *Chemical stability*

The product is stable in normal conditions of use and storage.

10.3. *Possibility of hazardous reactions*

no data available

10.4. *Conditions to avoid*

no data available

10.5. *Incompatible materials*

no data available

10.6. *Hazardous decomposition products*

Due to thermal decomposition or in the event of a fire vapours may be produced potentially dangerous to health

**11. Toxicological information**

11.1. *Information on toxicological effects*

Acute effects:

According to currently available data, this product has not yet produced health damages. Anyway, it must be handled carefully according to good industrial practices.

This preparate may have slight health effects on sensitive people, by inhalation and/or cutaneous absorption and/or contact with eyes and/or ingestion.

Corrosive/irritation power:

Eyes: not irritant

Skin: not irritant

**12. Ecological information**

12.1. *Toxicity:*

Use this product according to good working practices. Avoid litter. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation.

12.2. *Persistence and degradability:* not available

12.3. *Bioaccumulative potential:* not available

12.4. *Mobility in soil:* not available

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Product: **PEROXIDES TEST KIT ON OILS/FATS**

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12.5. Results of PBT and vPvB assessment: not available

12.6. Other adverse effects: not available

*This product doesn't contain AOX*

**13. Disposal considerations**

Operate following the current Local or National Laws.  
The non reclaimed containers have to be disposed as the product.  
Consider the possibility of burning the product in a suitable incinerator.

**14. Transport information**

The product is not classified dangerous under transport regulation.

**15. Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation	Cas	Substance
428/2009 ex CE 1334/2000 Ann.1	-	-
273/04 Tab.1 Cat.1	-	-
273/04 Tab.1 Cat.2	-	-
273/04 Tab.1 Cat.3	-	-
1907/2006 Ann. XIV	-	-
1907/2006 (Substances SVHC)	-	-
552/2009 (amending Reg. CE 1907/2006 as regards Ann. XVII)	-	-
276/2010 (amending Reg. CE 1907/2006 as regards Ann. XVII)	-	-
2003/105/CE Ann.1 part 1	-	-
2003/105/CE Ann.1 part 2	-	-

15.2. Chemical safety assessment

none

**16. Further information**

**Description of the sentences of risk set out in paragraph 3**

N.A.

**Description of the safety advice (R) exposed to point 3:**

N.A.

*Classification based on data of all components of the mixture*

**GENERAL BIBLIOGRAPHY:**

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Product: **PEROXIDES TEST KIT ON OILS/FATS**

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1. Directive 1999/45/EC as amended
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