



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

MATERIAL SAFETY DATA SHEET
**ACIDITY TEST KIT ON OILS AND
FATS**

Revision: 2
of 08/11/2012

Date of compilation: 21/05/04

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: **ACIDITY TEST KIT ON OILS AND FATS**

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)
Italy
Tel: +39 055-871431
Fax: +39 055-8714322

1.4 Emergency phone number:
+39 055-871431

e-mail TC: cdr@cdr-mediated.it

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Directive 67/548/EEC - Directive 1999/45/EC: :
F, R11; Xn, R20/21/22; Xn, R68/20/21/22; Xi, R36

Nature of special risks attributed:

R11 - Highly flammable.

R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed.

R36 - Irritating to eyes.

R68/20/21/22 - Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

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

2.2. Label elements:

Warning symbols:

F - Highly flammable

Xn - Harmful



Product: **ACIDITY TEST KIT ON OILS AND FATS**

Hazard sentences (R):

R11 - Highly flammable.

R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed.

R36 - Irritating to eyes.

R68/20/21/22 - Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

Caution recommendations (S):

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

S16 - Keep away from sources of ignition — No smoking.

S25 - Avoid contact with eyes.

S29 - Do not empty into drains.

S33 - Take precautionary measures against static discharges.

S36/37 - Wear suitable protective clothing and gloves.

S60 - This material and its container must be disposed of as hazardous waste.

Contains:

methanol

2.3 Other hazards:

none information

3. Composition/Information on ingredients

Mixture

Chemical composition:

Name	Concentration (C)	Classification		Regulation	
		Directive 67/ 548/CEE		CE/1272/2008	
propan-2-ol CAS 67-63-0 CE No 200-661-7 Index No 603-117-00-0	86 <= C < 92	F Xi	R11 R36 R67	Flam. Liq. 2 Eye Irrit. 2 STOT SE 3	H225 H319 H336
methanol CAS 67-56-1 CE No 200-659-6 Index No 603-001-00-X	7 <= C < 10	F T T	R11 R23/24/25 R39/23/24/25	Flam. Liq. 2 Acute Tox. 3 Acute Tox.3 Acute Tox.3 STOT SE 1	H225 H301 H311 H331 H370

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

4. First-aid measures

4.1 Description of first aid measures

Inhalation

Remove the victim from contaminated area and keep him in a well ventilated and comfortable place with the chest up. If the subject is unconscious but breathing, keep on its side in a safe position waiting for a doctor. Avoid cooling (covered). If breathing is difficult, seek medical advice immediately.

Skin contact

Product: **ACIDITY TEST KIT ON OILS AND FATS**

Wash immediately with plenty of water and soap. Remove contaminated clothing. Seek medical attention. Wash contaminated clothing before using them.

Eyes contact

Irrigate immediately and copiously with clean, fresh water for at least 15 minutes, keeping opened eyes. Consult a specialist immediately

Ingestion

Medical emergency. Don't induce vomiting. Never give anything by mouth to an unconscious and if it is not indicated by the doctor. Seek immediately medical advice).

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

In case of ingestion: Medical emergency.

In case of inhalation: If breathing is difficult, seek medical advice immediately.

In case of skin contact: Seek medical attention immediately.

In case of eye contact: Consult a specialist immediately

5. Fire-fighting measures

5.1 Extinguishing media

Advised extinguishing agents:

CO₂, 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_x, NO_x, SO_x).

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 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.

Product: **ACIDITY TEST KIT ON OILS AND FATS**

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

Supply good air circulation in working area. 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.

7.2. Conditions for safe storage, including any incompatibilities

Avoid the accumulation of electrostatic charges. Store the packaging closed in a fresh and ventilated area, far from sources of ignition. Store at temperature between 2-8° 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

propan-2-ol

ACGH-TLV: 491mg/m³ (as TWA, skin); 982mg/m³ (as STEL, skin)

DNEL:

Systemic effects of eye for long-term exposure: 888 mg / kg

systemic effects for long-term exposure Inhalation: 500 mg/m³

PNEC:

Fresh water: 140.9 mg / l

sea water: 140.9 mg / l

Intermittent Release: 140.9 mg / l

STP: 2251 mg / l

sediment (freshwater): 552 mg / kg

sediment (seawater): 552 mg / kg

soil: 28 mg / kg

Oral: 160 mg / kg

methanol

TLV-ACGH: 262mg/m³(as TWA);328mg/m³(as STEL)

OEL-EU:260mg/m³,200ppm(as TWA)

PNEC

Freshwater: 154 mg/L

Marine water: 15.4 mg/L

Intermittent releases: 1540 mg/L

STP: 100 mg/L

Sediment (marine water): 570.4 mg/kgt dw

Soil: 23.5 mg/kg soil dw

DNEL

Product: **ACIDITY TEST KIT ON OILS AND FATS**

Systemic effects to short term acute exposure -contact with the skin: 40 mg/ kg bw / day

Local effects to short term acute exposure-inhalation:260 mg/m³

Systemic effects to long term exposure- contact with the skin: 40 mg/ kg bw / day

Systemic effects to long term exposure –inhalation: 260 mg/m³

Local effects to long term exposure inhalation: : 260 mg/m³

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 (latex, nitrile, butyl rubber)
Eye protection : protective goggles
Skin protection : suitable protective clothing
Respiratory protection : mask with filter (Type A) for organic vapours

9. Physical and chemical properties

Physical and chemical properties	Value	Determination method
Appearance	red bordeaux 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	About 12°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	miscible in water	
Water solubility	miscible	
Partition coefficient: n-octanol/water	not available	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
Viscosity	not available	
Explosive properties	2-propanol: the vapor of this substance mixes well with air and it forms explosive mixture	
Oxidising properties	not oxidising	

9.2. Other information

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

10. Stability and reactivity

Product: **ACIDITY TEST KIT ON OILS AND FATS**

10.1. Reactivity

In contact with strong oxidants exothermal reaction may occur.

2-propanol: It reacts with strong oxidants

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

2-propanol: the vapor of this substance mixes well with air and it forms explosive mixture.

10.4. Conditions to avoid

none information

10.5. Incompatible materials

2-propanol: attacks some plastics and rubber.

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_x, NO_x, SO_x).

11. Toxicological information

11.1. Information on toxicological effects

Acute effects:

The product is harmful following acute exposure to it and causes serious health hazards if inhaled, ingested or brought into contact with skin.

If brought into contact with eyes, the product, causes significant irritations which may last for more than 24 hours.

The product may have irreversible effects hazards if inhaled, ingested or brought into contact with skin.

propan-2-ol

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

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 and the respiratory tract. The substance may cause effects on the central nervous system, resulting in depression. Exposure far above the OEL may result in unconsciousness.

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

ACUTE HAZARDS / SYMPTOMS

INHALATION Cough. Vertigo. Drowsiness. Headache. Sore throat. See Ingestion.

SKIN Dry skin. Bloodshot eyes.

INGESTION Abdominal pain. Cough. Nausea. Unconsciousness. Vomiting. (Further see Inhalation).

NOTE The use of alcoholic beverages enhances the harmful effect.

LD50: 2100 mg/kg (oral, rat)

LD50: 2100 mg/kg (skin, rat or rabbit)

Methanol

Product: **ACIDITY TEST KIT ON OILS AND FATS**

ROUTES OF EXPOSURE: The substance can be absorbed into the body by inhalation and through the skin and by ingestion.

INHALATION: A harmful contamination of the air can be reached rather quickly on evaporation of this substance at 20 ° C.

EFFECTS OF SHORT-TERM: the substance is irritating to the eyes, the skin and the respiratory tract. The substance may cause effects on the central nervous system, causing impairment of supervision.

EFFECTS OF LONG-TERM OR REPEATED EXPOSURE: Repeated or prolonged contact with skin may cause dermatitis. The substances may have effects on the central nervous system, causing persistent or recurrent headaches and vision damaged.

ACUTE HAZARDS / SYMPTOMS Cough. Dizziness. Headache. Nausea. Weakness. Disorders of vision.

SKIN CAN 'BE USED! Dry skin. Redness.

EYES Redness. pain

INGESTION abdominal pain. Shortness of breath. Vomiting. Convulsions. Unconsciousness. (Further see Inhalation).

NOTES Depending on the degree of exposure, periodic medical examination is indicated.

Corrosive/irritation power:

Eyes: irritant

Skin: 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.

propan-2-ol

LC50: 8970 – 9280 mg/kg/l/48h (pesce)

EC50:9714 mg/l/24h (Daphnia Magna)

methanol

EC50: >10000mg/l (Daphnia Magna, 48h)

12.2. Persistence and degradability:

propan-2-ol:

COD:2300mg/kg

Methanol: easily biodegradable

BOD5:1236 mg O₂/g

12.3. Bioaccumulative potential:

Methanol: LogPow: -0,77

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

Product: **ACIDITY TEST KIT ON OILS AND FATS**

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
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-2-ol, Methanol)*

Labelling:



n.3

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)	-	-
2003/105/CE Ann.1 part 1	67-56-1	methanol
2003/105/CE Ann.1 part 2	-	Mixture classified HIGHLY FLAMMABLE

15.2. Chemical safety assessment

none

16. Further information

Product: **ACIDITY TEST KIT ON OILS AND FATS**

Description of the sentences of risk set out in paragraph 3

H225 = Highly flammable liquid and vapour.

H319 = Causes serious eye irritation.

H336 = May cause drowsiness or dizziness.

H301 = Toxic if swallowed.

H311 = Toxic in contact with skin.

H331 = Toxic if inhaled.

H370 = Causes damage to organs .

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

R11 = Highly flammable.

R23/24/25= Toxic by inhalation, in contact with skin and if swallowed.

R36 = Irritating to eyes.

R39/23/ 24/25 = Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

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)
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.