



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

MATERIAL SAFETY DATA SHEET
**D-3-HYDROXYBUTYRIC ACID TEST KIT
ON EGG**

Revision: 1
of 04/06/12

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

Date of compilation: 30/03/10

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

1.1 Product identifier: **D-3-HYDROXYBUTYRIC ACID TEST KIT ON EGG**

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 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

Product: **D-3-HYDROXYBUTYRIC ACID TEST KIT ON EGG**

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.

Skin contact

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

Eyes contact

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

Ingestion.

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

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

5. Fire-fighting measures

5.1 Extinguishing media

Advised extinguishing agents:

CO₂, 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.

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.

Product: **D-3-HYDROXYBUTYRIC ACID TEST KIT ON EGG**

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 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

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
Eye protection	: protective goggles
Skin protection	: suitable protective clothing
Respiratory protection	: mask with filter for organic vapours. .

9. Physical and chemical properties

Physical and chemical properties	Value	Determination method
Appearance	liquid	
Odour	characteristic	
Odour threshold	not available	

Product: **D-3-HYDROXYBUTYRIC ACID TEST KIT ON EGG**

pH	8
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 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): -%

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.

Product: **D-3-HYDROXYBUTYRIC ACID TEST KIT ON EGG**

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

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)	-	-
238/05 (Seveso ter) Ann.1 part 1	-	-
238/05 (Seveso ter) Ann.1 part 2	-	-

Product: **D-3-HYDROXYBUTYRIC ACID TEST KIT ON EGG**

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:

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.

Product: **D-3-HYDROXYBUTYRIC ACID TEST KIT ON EGG**

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

1.1 Product identifier: **D-3-HYDROXYBUTYRIC ACID 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)

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 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.

Product: **D-3-HYDROXYBUTYRIC ACID TEST KIT ON EGG**

Skin contact

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

Eyes contact

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

Ingestion.

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

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

5. Fire-fighting measures

5.1 Extinguishing media

Advised extinguishing agents:

CO₂, 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.

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.

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.

Product: **D-3-HYDROXYBUTYRIC ACID TEST KIT ON EGG**

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 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

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
Eye protection	: protective goggles
Skin protection	: suitable protective clothing
Respiratory protection	: mask with filter for organic vapours. .

9. Physical and chemical properties

Physical and chemical properties	Value	Determination method
Appearance	liquid	
Odour	characteristic	
Odour threshold	not available	
pH	7,8	
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 available	
Vapour pressure	not available	
Vapour density	not available	
Relative density	not available	

Product: **D-3-HYDROXYBUTYRIC ACID TEST KIT ON EGG**

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): -%

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.

Product: **D-3-HYDROXYBUTYRIC ACID TEST KIT ON EGG**

12.2. Persistence and degradability: not available

12.3. Bioaccumulative potential: not available

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

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)	-	-
238/05 (Seveso ter) Ann.1 part 1	-	-
238/05 (Seveso ter) 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:

Product: **D-3-HYDROXYBUTYRIC ACID TEST KIT ON EGG**

N.A.

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.