



according to Regulation (EC) No 1907/2006

14391-01 Sulfuric Acid Cartridge, 8.00 N

Revision date: 17.02.2016 Product code: 1439101 Page 1 of 8

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

14391-01 Sulfuric Acid Cartridge, 8.00 N

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

Water analysis

1.3. Details of the supplier of the safety data sheet

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Street: Willstätterstr. 11
Place: D-40549 Düsseldorf
Telephone: +49 (0)211 5288-383
e-mail: SDS@hach.com
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Unit 1, Chestnut Road Western Industrial Estate

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Tel. +353 (0)1 4602522 e-Mail: info-ie@hach.com

1.4. Emergency telephone Poison Control Center Mainz: Tel: +49 (0) 6131 19240 - 24 hour emergency

number: service -

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Substance or mixture corrosive to metals: Met. Corr. 1

Skin corrosion/irritation: Skin Corr. 1A Serious eye damage/eye irritation: Eye Dam. 1

Hazard Statements:

May be corrosive to metals.

Causes severe skin burns and eye damage.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

sulphuric acid ... %

Signal word: Danger

Pictograms:



Hazard statements

H290 May be corrosive to metals.



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Safety Data Sheet

according to Regulation (EC) No 1907/2006

14391-01 Sulfuric Acid Cartridge, 8.00 N

Revision date: 17.02.2016 Product code: 1439101 Page 2 of 8

H314 Causes severe skin burns and eye damage.

Precautionary statements

P234 Keep only in original packaging.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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

or shower.

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/doctor.

Additional advice on labelling

The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008.

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification according to Regula	tion (EC) No. 1272/2008 [CLP]	•		
7732-18-5	Water				
	231-791-2				
7664-93-9	sulphuric acid %				
	231-639-5	016-020-00-8			
	Skin Corr. 1A; H314				

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Take off all contaminated clothing immediately.

Show this safety data sheet to the doctor in attendance.

After inhalation

Move to fresh air. Consult a physician.

After contact with skin

Wash off immediately with plenty of water for at least 15 minutes. Consult a physician.

Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty. Show this safety data sheet to the doctor in attendance.

After contact with eyes

Rinse immediately with plenty of water for at least 15 minutes. Call a physician immediately.

After ingestion

Do NOT induce vomiting. Drink 1 or 2 glasses of water.

Never give anything by mouth to an unconscious person.

Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

Irritation and corrosion, Cough, Shortness of breath





according to Regulation (EC) No 1907/2006

14391-01 Sulfuric Acid Cartridge, 8.00 N

Revision date: 17.02.2016 Product code: 1439101 Page 3 of 8

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

Water

5.2. Special hazards arising from the substance or mixture

The product itself does not burn.

Gives off hydrogen by reaction with metals. Reacts violently with water.

Fire may liberate hazardous vapours.

5.3. Advice for firefighters

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

In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

Additional information

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste.

6.4. Reference to other sections

13. Disposal considerations

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid contact with skin and eyes.

Do not breathe vapours or spray mist. Use only in well-ventilated areas.

Further information on handling

Observe label precautions.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep away from heat. Keep container tightly closed in a dry and well-ventilated place.

Hints on joint storage

Protect against Bases, Oxidizing agents, Metals

Further information on storage conditions

Keep locked up or in an area accessible only to qualified or authorised persons.

7.3. Specific end use(s)

Reagent for analysis

SECTION 8: Exposure controls/personal protection



according to Regulation (EC) No 1907/2006

14391-01 Sulfuric Acid Cartridge, 8.00 N

Revision date: 17.02.2016 Product code: 1439101 Page 4 of 8

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
7664-93-9	Sulphuric acid (mist)	-	0.05		TWA (8 h)	WEL

Additional advice on limit values

None known.

8.2. Exposure controls

Appropriate engineering controls

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Protective and hygiene measures

Wash hands before breaks and at the end of workday.

Eye/face protection

Safety glasses with side-shields

Hand protection

Use barrier skin cream.

Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374. In full contact: Gloves material: Viton, Layer thickness: 0.70 mm, Breakthrough time: >480 min. In splash contact: Glove material: nitrile rubber, Layer thickness 0.40 mm, Breakthrough time: > 30 min

Skin protection

Avoid contact with skin, eyes and clothing.

Respiratory protection

Ensure adequate ventilation, especially in confined areas.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: colourless
Odour: stinging

pH-Value (at 20 °C): < 0,5

Changes in the physical state

Melting point:no data availableInitial boiling point and boiling range:100 °CSublimation point:not applicableSoftening point:not applicablePour point:not applicableFlash point:not applicable

Flammability

Solid: not applicable
Gas: not applicable

Explosive properties

not applicable

Lower explosion limits:

Upper explosion limits:

not applicable

not applicable



according to Regulation (EC) No 1907/2006

14391-01 Sulfuric Acid Cartridge, 8.00 N

Revision date: 17.02.2016 Product code: 1439101 Page 5 of 8

Ignition temperature: not applicable

Auto-ignition temperature

Solid: not applicable
Gas: not applicable

Decomposition temperature: no data available

Oxidizing properties

not applicable

Vapour pressure:

Vapour pressure:

Density (at 20 °C):

Bulk density:

No data available

1,535 g/cm³

not applicable

Water solubility:

soluble

Solubility in other solvents

no data available

Partition coefficient: no data available Viscosity / dynamic: no data available Viscosity / kinematic: no data available Flow time: no data available Vapour density: no data available Evaporation rate: no data available no data available Solvent separation test: Solvent content: no data available

9.2. Other information

Solid content: no data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Corrosive to metals

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Reacts with the following substances: Alkali metals, Alkaline earth metals, Metals, Bases

10.4. Conditions to avoid

Extremes of temperature and direct sunlight. Decomposes on heating.

10.5. Incompatible materials

Bases, Oxidizing agents, Metals

10.6. Hazardous decomposition products

Gives off hydrogen by reaction with metals.

Further information

Stable under recommended storage conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects





according to Regulation (EC) No 1907/2006

14391-01 Sulfuric Acid Cartridge, 8.00 N

Revision date: 17.02.2016 Product code: 1439101 Page 6 of 8

Acute toxicity

No data is available on the product itself.

Irritation and corrosivity

Causes skin and eye burns.

Sensitising effects

No known effect.

Carcinogenic/mutagenic/toxic effects for reproduction

Contains no ingredient listed as a carcinogen

STOT-single exposure

No known effect.

STOT-repeated exposure

No known effect.

Aspiration hazard

No aspiration toxicity classification

Specific effects in experiment on an animal

No toxicology information is available.

Further information

Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: Ecological information

12.1. Toxicity

No data is available on the product itself.

12.2. Persistence and degradability

No data is available on the product itself.

12.3. Bioaccumulative potential

No data is available on the product itself.

12.4. Mobility in soil

no data available

12.5. Results of PBT and vPvB assessment

no data available

12.6. Other adverse effects

No known effect.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

In accordance with local and national regulations.

Waste disposal number of waste from residues/unused products

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and

discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances,

including mixtures of laboratory chemicals; hazardous waste

Waste disposal number of used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and

discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances,

including mixtures of laboratory chemicals; hazardous waste

Waste disposal number of contaminated packaging



according to Regulation (EC) No 1907/2006

14391-01 Sulfuric Acid Cartridge, 8.00 N

Revision date: 17.02.2016 Product code: 1439101 Page 7 of 8

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and

discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances,

including mixtures of laboratory chemicals; hazardous waste

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:UN 279614.2. UN proper shipping name:Sulphuric acid

14.3. Transport hazard class(es):814.4. Packing group:IIHazard label:8



Classification code:

Limited quantity:

Excepted quantity:

Transport category:

Hazard No:

Tunnel restriction code:

C1

Limited quantity:

E2

Racepted quantity:

E3

Racepted quantity:

E4

Racepted quantity:

E5

Racepted quantity:

E6

Racepted quantity:

E7

Racepted quantity:

E80

Race

Inland waterways transport (ADN)

Other applicable information (inland waterways transport)

Not tested

Marine transport (IMDG)

14.1. UN number:UN 279614.2. UN proper shipping name:Sulphuric acid

14.3. Transport hazard class(es):814.4. Packing group:IIHazard label:8



Marine pollutant: -Special Provisions: -Limited quantity: 1 L
Excepted quantity: E2
EmS: F-A, S-B
Segregation group: acids

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:UN 279614.2. UN proper shipping name:Sulphuric acid

14.3. Transport hazard class(es):814.4. Packing group:IIHazard label:8



Limited quantity Passenger:





according to Regulation (EC) No 1907/2006

14391-01 Sulfuric Acid Cartridge, 8.00 N

Revision date: 17.02.2016 Product code: 1439101 Page 8 of 8

Passenger LQ: Y840 Excepted quantity: E2

IATA-packing instructions - Passenger: 851
IATA-max. quantity - Passenger: 1 L
IATA-packing instructions - Cargo: 855
IATA-max. quantity - Cargo: 30 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

no data available

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

Other applicable information

Additional Information: This product may be shipped as part of a chemical kit composed of various compatible dangerous goods for analytical or testing purposes. This kit would have the following classification: Proper Shipping Name: Chemical Kit, Hazard Class: 9, UN Number3316, Package group II, EMS Code: F-A, S-P These transport data apply to the entire pack

SECTION 15: Regulatory information

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

National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile

work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or

nursing mothers.

Water contaminating class (D): 1 - slightly water contaminating

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

Revision: 03.06.2015

Safety datasheet sections which have been updated: 2, 4, 11

Relevant H and EUH statements (number and full text)

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)





according to Regulation (EC) No 1907/2006

2329232 Bromcresol Green-Methyl Red Indicator Solution

Product code: 2329232 Revision date: 13.05.2015 Page 1 of 10

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

2329232 Bromcresol Green-Methyl Red Indicator Solution

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

Water analysis

1.3. Details of the supplier of the safety data sheet

Company name: HACH LANGE GmbH Street: Willstätterstr. 11 Place: D-40549 Düsseldorf Telephone: +49 (0)211 5288-383 e-mail: SDS@hach.com Internet: www.de.hach.com Responsible Department: HACH LANGE Ltd.

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Tel. +353 (0)1 4602522 e-Mail: info-ie@hach.com

Poison Control Center Mainz: Tel: +49 (0) 6131 19240 - 24 hour emergency 1.4. Emergency telephone

service number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Flammable liquid: Flam. Liq. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 3

Hazard Statements:

Highly flammable liquid and vapour. May cause respiratory irritation. Causes serious eye irritation.

May cause drowsiness or dizziness.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

propan-2-ol; isopropyl alcohol; isopropanol

Signal word: Danger

Pictograms:







according to Regulation (EC) No 1907/2006

2329232 Bromcresol Green-Methyl Red Indicator Solution

Revision date: 13.05.2015 Product code: 2329232 Page 2 of 10

Hazard statements

H225 Highly flammable liquid and vapour.
 H335 May cause respiratory irritation.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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

or shower.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER/doctor if you feel unwell.

P370+P378 In case of fire: Use dry sand to extinguish.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container to Disposal.

Additional advice on labelling

The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008.

2.3. Other hazards

no data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name					
,	EC No	Index No	REACH No			
	Classification according	to Regulation (EC) No. 1272/2008	CLP]			
67-63-0	propan-2-ol; isopropyl a	lcohol; isopropanol		85-95 %		
	200-661-7	603-117-00-0				
	Flam. Liq. 2, Eye Irrit. 2	, STOT SE 3; H225 H319 H336				
7732-18-5	Water			5-15 %		
	231-791-2					
62625-32-5	Bromkresolgreen Sodiu	>1 %				
	263-657-4					
1310-58-3	potassium hydroxide; caustic potash					
	215-181-3	019-002-00-8				
	Acute Tox. 4, Skin Corr. 1A; H302 H314					
845-10-3	Methyl red sodium salt	<1 %				
	212-682-9					
	Muta. 2, Aquatic Chronic 3; H341 H412					

Full text of H and EUH statements: see section 16.





according to Regulation (EC) No 1907/2006

2329232 Bromcresol Green-Methyl Red Indicator Solution

Revision date: 13.05.2015 Product code: 2329232 Page 3 of 10

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Take off contaminated clothing and shoes immediately.

Show this safety data sheet to the doctor in attendance.

After inhalation

Move to fresh air.

If symptoms persist, call a physician.

After contact with skin

Wash off immediately with plenty of water for at least 15 minutes. Take off all contaminated clothing immediately. If skin irritation persists, call a physician.

After contact with eyes

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

After ingestion

Clean mouth with water and drink afterwards plenty of water. Consult a physician.

4.2. Most important symptoms and effects, both acute and delayed

Irritation and corrosion, Cough, Shortness of breath, headache,

Dizziness, Tiredness, Coma, Drowsiness

Prolonged or repeated skin contact with liquid may cause defatting resulting in drying, redness and possible blistering.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2), Alcohol-resistant foam, Dry powder

5.2. Special hazards arising from the substance or mixture

Combustible Liquid

Vapours may form explosive mixtures with air.

Vapours are heavier than air and may spread along floors.

Vapours may form explosive mixture with air.

Pay attention to flashback.

5.3. Advice for firefighters

In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

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

In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit.

Additional information

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Only qualified personnel equipped with suitable protective equipment may intervene. Immediately evacuate personnel to safe areas.

Do not breathe vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can



according to Regulation (EC) No 1907/2006

2329232 Bromcresol Green-Methyl Red Indicator Solution

Revision date: 13.05.2015 Product code: 2329232 Page 4 of 10

accumulate in low areas.

For personal protection see section 8.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local/national regulations (see section 13).

6.4. Reference to other sections

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

13. Disposal considerations

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Use only in well-ventilated areas.

Avoid contact with skin and eyes.

Do not breathe vapours/dust.

Wash thoroughly after handling.

Advice on protection against fire and explosion

Highly flammable

Further information on handling

Observe label precautions.

Avoid contact with skin, eyes and clothing.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Storage temperature: 10-25 °C, Keep away from heat and sources of ignition.

Keep container tightly closed in a dry and well-ventilated place.

Hints on joint storage

Do not store together with Acids, Oxidizing agents

7.3. Specific end use(s)

Laboratory chemicals

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
1310-58-3	Potassium hydroxide	-	2		STEL (15 min)	WEL
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
		500	1250		STEL (15 min)	WEL

8.2. Exposure controls

Appropriate engineering controls

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

Protective and hygiene measures

The type of protective equipment must be selected according to the concentration and amount of the





according to Regulation (EC) No 1907/2006

2329232 Bromcresol Green-Methyl Red Indicator Solution

Revision date: 13.05.2015 Product code: 2329232 Page 5 of 10

dangerous substance at the specific workplace. Wash hands before breaks and after work.

Eye/face protection

Safety glasses with side-shields

Hand protection

Use barrier skin cream.

Gloves must be inspected prior to use. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

In case of full contact: Glove material: Nitrile rubber Layer thickness: > 0,4 mm Break through time: 480 min

In case of contact through splashing: Glove material: Polychloropren Layer thickness: > 0,65 mm Break through time: > 120 min

Skin protection

Remove and wash contaminated clothing before re-use.

Respiratory protection

Breathing apparatus only if aerosol or dust is formed.

Recommended Filter type: A

Environmental exposure controls

Do not flush into surface water or sanitary sewer system.

Prevent further leakage or spillage if safe to do so.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: dark green
Odour: alcohol-like

pH-Value (at 20 °C):

Changes in the physical state

Melting point:

Initial boiling point and boiling range:

Sublimation point:

Softening point:

Pour point:

c

not applicable

rot c

no data available

Flash point:

16 °C

Flammability

Solid: no data available
Gas: no data available

Explosive properties

Sustaining combustion:

no data available

Lower explosion limits: no data available

No data available



according to Regulation (EC) No 1907/2006

2329232 Bromcresol Green-Methyl Red Indicator Solution

Revision date: 13.05.2015 Product code: 2329232 Page 6 of 10

Upper explosion limits:

Ignition temperature:

no data available
no data available

Auto-ignition temperature

Solid: 410 °C Gas: 410 °C

Decomposition temperature: no data available

Oxidizing properties

no data available

Vapour pressure:

Vapour pressure:

Density (at 20 °C):

Bulk density:

Water solubility:

(at 20 °C)

miscible

miscible

Solubility in other solvents

no data available

Partition coefficient: no data available Viscosity / dynamic: no data available Viscosity / kinematic: no data available Flow time: no data available Vapour density: no data available no data available Evaporation rate: Solvent separation test: no data available no data available Solvent content:

9.2. Other information

Solid content: no data available

no data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Vapours may form explosive mixtures with air.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Reacts with the following substances:

Acids, Oxidizing agents, Nitric acid, Peroxides, Aldehydes, nitrogen oxides (NOx)

10.4. Conditions to avoid

Heat, flames and sparks.

10.5. Incompatible materials

Rubber products Plastic jerrican Acids, Oxidizing agents

10.6. Hazardous decomposition products

Heating can release hazardous gases. Carbon monoxide, Carbon dioxide (CO2)

SECTION 11: Toxicological information

11.1. Information on toxicological effects



according to Regulation (EC) No 1907/2006

2329232 Bromcresol Green-Methyl Red Indicator Solution

Revision date: 13.05.2015 Product code: 2329232 Page 7 of 10

Acute toxicity

No data is available on the product itself.

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol					
	oral	LD50 mg/kg	5045	rat	RTECS	
	dermal	LD50 mg/kg	12800	rabbit		
	inhalation (4 h) vapour	LC50	46,5 mg/l	rat		
1310-58-3	potassium hydroxide; caustic potash					
	oral	LD50 mg/kg	333	Rat	Merck	

Irritation and corrosivity

irritant effects

STOT-single exposure

The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

H336 - May cause drowsiness or dizziness.

Further information

Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: Ecological information

12.1. Toxicity

No data is available on the product itself.

Do not flush into surface water or sanitary sewer system.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d] Species		Source	Method
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol						
	Acute fish toxicity	LC50 mg/l	1400	96 h	Lepomis macrochirus (Bluegill sunfish)		
	Acute algae toxicity	ErC50 mg/l	> 1000		Pseudokirchneriella subcapitata (green algae)	IUCLID	
	Acute crustacea toxicity	EC50 mg/l	13299	I .	Daphnia magna (Water flea)	UICLID	
1310-58-3	potassium hydroxide; caustic potash						
	Acute fish toxicity	LC50	80 mg/l	96 h	Gambusia affinis	IUCLID	

12.2. Persistence and degradability

No data is available on the product itself.

12.3. Bioaccumulative potential

No data is available on the product itself.

12.4. Mobility in soil

no data available

12.5. Results of PBT and vPvB assessment

no data available





according to Regulation (EC) No 1907/2006

2329232 Bromcresol Green-Methyl Red Indicator Solution

Revision date: 13.05.2015 Product code: 2329232 Page 8 of 10

12.6. Other adverse effects

No known effect.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

In accordance with local and national regulations.

Waste disposal number of waste from residues/unused products

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and

discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances,

including mixtures of laboratory chemicals; hazardous waste

Waste disposal number of used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and

discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances,

including mixtures of laboratory chemicals; hazardous waste

Contaminated packaging

Dispose of as unused product.

The hazard and precautionary statements displayed on the label also apply to any residues left in the container.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: UN 1219

14.2. UN proper shipping name: ISOPROPANOL (ISOPROPYL ALCOHOL) solution

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Classification code: F1
Special Provisions: 601
Limited quantity: 1 L
Transport category: 2
Hazard No: 33
Tunnel restriction code: D/E

Other applicable information (land transport)

Excepted Quantities: E2
Inland waterways transport (ADN)

Other applicable information (inland waterways transport)

Not tested

Marine transport (IMDG)

14.1. UN number: UN 1219

14.2. UN proper shipping name: ISOPROPANOL (ISOPROPYL ALCOHOL), solution

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



according to Regulation (EC) No 1907/2006

2329232 Bromcresol Green-Methyl Red Indicator Solution

Revision date: 13.05.2015 Product code: 2329232 Page 9 of 10



Marine pollutant: -Special Provisions: Limited quantity: 1 L
EmS: F-E, S-D

Other applicable information (marine transport)

Excepted Quantities: E2

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 1219

14.2. UN proper shipping name: ISOPROPANOL (ISOPROPYL ALCOHOL), solution

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Special Provisions: A180 Limited quantity Passenger: 1 L

IATA-packing instructions - Passenger: 353
IATA-max. quantity - Passenger: 5 L
IATA-packing instructions - Cargo: 364
IATA-max. quantity - Cargo: 60 L

Other applicable information (air transport)

Passenger-LQ: Y341 Excepted Quantities: E2

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

no data available

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not relevant

Other applicable information

Additional Information: This product may be shipped as part of a chemical kit composed of various compatible dangerous goods for analytical or testing purposes. This kit would have the following classification: Proper Shipping Name: Chemical Kit, Hazard Class: 9, UN Number3316, Package group II, EMS Code: F-A, S-P These transport data apply to the entire pack

SECTION 15: Regulatory information

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

National regulatory information

Water contaminating class (D): 1 - slightly water contaminating

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information



according to Regulation (EC) No 1907/2006

2329232 Bromcresol Green-Methyl Red Indicator Solution

Revision date: 13.05.2015 Product code: 2329232 Page 10 of 10

Changes

Revision: 13.05.2015

Safety datasheet sections which have been updated: 2, 11

Revision: 16.05.2014

Safety datasheet sections which have been updated: 4,5,6,7,8,9,10,11,12,14,15,16

Revision: 11.01.2013

Safety datasheet sections which have been updated: 11,12

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H412	Harmful to aquatic life with long lasting effects.

Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)