

# SAFETY DATA SHEET

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Issue Date 09-Jan-2006 Revision Date 28-Mar-2024 Version 4.1

# Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product Code(s) 2141299

Product Name Triazole Reagent

Unique Formula Identifier (UFI) 1CR4-JAW1-A00U-YSUK

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

**Recommended Use** Water Analysis. Determination of benzotriazole and tolyltriazole.

Uses advised against Consumer use

#### 1.3. Details of the supplier of the safety data sheet

# **Supplier**

HACH UK
Laser House
Ground Floor, Suite B
Waterfront Quay, Salford Quays
GB - Manchester, M50 3XW
Tel. +44 (0) 161 872 1487
info-uk@hach.com

HACH Ireland Unit 34 GB Business Park Little Island IRL-Co. Cork T45 H681 Tel. +353 (0)146 02 522 info-ie@hach.com

# 1.4. Emergency telephone number

UK: Chemtrec: +44 20 3807 3798

IE: National Poisons Information Centre (NPIC) 01 809 2566 (24/7)

# Section 2: HAZARDS IDENTIFICATION

# 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity - Oral	Category 4 - (H302)
Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 1 - (H318)
Respiratory sensitisation	Category 1 - (H334)

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Specific target organ toxicity — single exposure	Category 3 - (H335)
Chronic aquatic toxicity	Category 3 - (H412)

#### 2.2. Label elements

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Contains Sodium metabisulfite, Butanedioic acid



# Signal word

Danger

#### **Hazard statements**

H302 - Harmful if swallowed

H315 - Causes skin irritation

H318 - Causes serious eye damage

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H335 - May cause respiratory irritation

H412 - Harmful to aquatic life with long lasting effects

#### **Precautionary statements**

P270 - Do not eat, drink or smoke when using this product

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

P280 - Wear protective gloves and eye/face protection

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

P310 - Immediately call a POISON CENTER or doctor

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

P284 - In case of inadequate ventilation wear respiratory protection

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

P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

#### 2.3. Other hazards

No information available.

#### PBT & vPvB

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT)

This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB)

# **Endocrine Disruptor Information**

This product does not contain any known or suspected endocrine disruptors.

# Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

# 3.1 Substances

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Not applicable

#### 3.2 Mixtures

Chemical name	CAS No. EC No. Index No.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Sodium metabisulfite	7681-57-4 231-673-0 (016-063-00-2) 016-063-00-2	20 - 30%	Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Resp. Sens. 1 - H334 STOT SE 3 - H335 Aquatic Chronic 3		-	-
Butanedioic acid	110-15-6 203-740-4 -	10 - 20%	Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H335		-	-

### Full text of H- and EUH-phrases: see section 16

No information available Acute Toxicity Estimate

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Sodium metabisulfite 7681-57-4	500 mg/kg	> 2000 mg/kg	> 5.5 mg/L	None reported	None reported
Butanedioic acid 110-15-6	2260 mg/kg	None reported	None reported	None reported	None reported

# **Section 4: FIRST AID MEASURES**

# 4.1. Description of first aid measures

**General advice** Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

Inhalation May cause allergic respiratory reaction. If breathing has stopped, give artificial respiration.

Get medical attention immediately. Get immediate medical attention. Remove to fresh air.

Get immediate medical attention. Rinse immediately with plenty of water, also under the Eye contact

eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue

BE / EGHS Page 3/18 rinsing. Keep eye wide open while rinsing. Do not rub affected area.

May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a Skin contact

doctor. Wash off immediately with soap and plenty of water for at least 15 minutes.

Ingestion Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

person. May produce an allergic reaction. Get immediate medical attention.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

> protect themselves and prevent spread of contamination. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. See section 8 for more information. Avoid

contact with skin, eyes or clothing.

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

Burning sensation. May cause allergy or asthma symptoms or breathing difficulties if **Symptoms** 

inhaled. Coughing and/ or wheezing.

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

Note to doctors May cause sensitisation in susceptible persons. 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 No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

Product is or contains a sensitiser. May cause sensitisation by inhalation.

**Hazardous combustion products** sodium monoxide. Sulphur oxides. carbon monoxide, carbon dioxide. nitrogen oxides.

5.3. Advice for firefighters

Special protective equipment and

precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

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

Personal precautions Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas. Avoid

contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective

equipment as required.

Use personal protection recommended in Section 8. For emergency responders

6.2. Environmental precautions

BE / EGHS Page 4/18 **Environmental precautions** Prevent further leakage or spillage if safe to do so.

6.3. Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

# Section 7: HANDLING AND STORAGE

# 7.1. Precautions for safe handling

Advice on safe handling Provide extract ventilation to points where emissions occur. Remove contaminated clothing

and shoes. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using

this product. Take off contaminated clothing and wash it before reuse. Handle in

accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Avoid breathing vapours or mists. In case of insufficient ventilation, wear suitable respiratory

equipment.

**General hygiene considerations** Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do

not eat, drink or smoke when using this product. Remove and wash contaminated clothing

and gloves, including the inside, before re-use.

# 7.2. Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach

of children.

7.3. Specific end use(s)

Specific use(s) Analytical reagent.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

# Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

# 8.1. Control parameters

#### **Exposure Limits**

Chemical name	European Union	United Kingdom	Ireland
Sodium metabisulfite	-	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>
7681-57-4		STEL: 15 mg/m <sup>3</sup>	STEL: 15 mg/m <sup>3</sup>

# Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
Butanedioic acid, disodium salt	-	11.7 mg/kg bw/day [4] [6]	41.1 mg/m³ [4] [6]

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Chemical name	Oral	Dermal	Inhalation
150-90-3			
Sodium metabisulfite 7681-57-4	-	-	225 mg/m³ [4] [6]
Butanedioic acid 110-15-6		71 mg/kg bw/day [4] [6] 67 mg/kg bw/day [4] [7]	10 mg/m³ [4] [6] 10 mg/m³ [4] [7] 10 mg/m³ [5] [6] 10 mg/m³ [5] [7]

Notes

[4] Systemic health effects.
[5] Local health effects.
[6] Long term.
[7] Short term.

## **Predicted No Effect Concentration (PNEC)**

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
Butanedioic acid, disodium salt 150-90-3	0.1 mg/L	1 mg/L	10 μg/L	0.1 mg/L	-
Sodium metabisulfite 7681-57-4	1 mg/L	-	0.1 mg/L	-	-
Butanedioic acid 110-15-6	0.1 mg/L	1 mg/L	0.01 mg/L	-	-

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
Butanedioic acid, disodium salt 150-90-3	0.48 mg/kg sediment dw	48 μg/kg sediment dw	-	37.2 μg/kg soil dw	-
Sodium metabisulfite 7681-57-4	-	-	75.4 mg/L	-	-
Butanedioic acid 110-15-6	0.079 mg/kg sediment dw	0.0079 mg/kg sediment dw	3 mg/L	0.0177 mg/kg soil dw	-

### 8.2. Exposure controls

**Engineering controls** 

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Personal protective equipment Eye/face protection

Wear safety glasses with side shields (or goggles).

Hand protection

Barrier creams may help to protect the exposed areas of skin. Wear suitable gloves. Gloves must be inspected prior to use. The selected protective gloves have to satisfy the specifications of EU Directive 2016/425 and the standard EN 374-1:2016 derived from it. Chemical resistant gloves made of butyl rubber or nitrile rubber category III acco.

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Gloves							
Duration of contact	PPE - Glove material	Glove thickness	Break through time				
Long term (repeated)	Wear protective Viton™ gloves	0,70 mm	>480 minutes				
Short term Wear protective nitrile rubber gloves		0,20 mm	>30 minutes				

Skin and body protection Avoid contact with eyes, skin and clothing. Wear suitable protective clothing. Long sleeved

clothing. Wash contaminated clothing before reuse.

Respiratory protection Ensure adequate ventilation. No protective equipment is needed under normal use

conditions. If exposure limits are exceeded or irritation is experienced, ventilation and

evacuation may be required. Wear breathing apparatus if exposed to

vapours/dusts/aerosols.

Recommended filter type: ABEK-P3.

**General hygiene considerations** Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do

not eat, drink or smoke when using this product. Remove and wash contaminated clothing

and gloves, including the inside, before re-use.

**Environmental exposure controls** Do not allow into any sewer, on the ground or into any body of water.

# Section 9: PHYSICAL AND CHEMICAL PROPERTIES

# 9.1. Information on basic physical and chemical properties

Physical state Solid

Colour white Odour Odourless

Odour threshold No data available

Property	<u>Values</u>	Remarks • Method
Molecular weight	No data available	
рН	4.9	5% @ 20°C
Melting point / freezing point	215 °C / 419 °F	
Initial boiling point and boiling range	No data available	
Evaporation rate	Not applicable	
Vapour pressure	Not applicable	
Relative vapor density	No data available	
Partition coefficient	log K <sub>ow</sub> = -2.65	Estimation through KOWWIN v1.68 part of the Estimation Programs Interface (EPI) Suite™
Soil Organic Carbon-Water Partition Coefficient	$log K_{oc} = -0.02$	Estimation through KOCWIN v2.00 part of the Estimation Programs Interface (EPI) Suite™

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Autoignition temperature No data available

**Decomposition temperature**No data available

Dynamic viscosity Not applicable

Kinematic viscosity Not applicable

Relative density 1.76 g/cm<sup>3</sup> @ 20 °C

# Solubility(ies)

#### Water solubility

Water solubility classification	Water solubility	Water Solubility Temperature
Soluble	No data available	25 °C / 77 °F

# Solubility in other solvents

Chemical Name_	Solubility classification_	<u>Solubility</u>	Solubility Temperature
Acid	Soluble	> 1000 mg/L	25 °C / 77 °F

# **Metal Corrosivity**

Steel Corrosion Rate

No data available
Aluminum Corrosion Rate

No data available

**Explosive properties** 

Upper explosion limitNo data availableLower explosion limitNo data available

Flammable properties

Flash point Not applicable

**Flammability** 

Upper flammability limit:No data availableLower flammability limitNo data available

Oxidising properties No data available.

Bulk density No data available

# 9.2. Other information

No information available.

# **Section 10: STABILITY AND REACTIVITY**

10.1. Reactivity

**Reactivity** No information available.

10.2. Chemical stability

**Stability** Stable under normal conditions.

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## 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** None under normal processing.

**Hazardous polymerisation** No information available.

10.4. Conditions to avoid

**Conditions to avoid**None known based on information supplied.

10.5. Incompatible materials

**Incompatible materials** Strong acids. Strong bases. Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous Decomposition Products Sulphur oxides. Carbon dioxide. Carbon monoxide. nitrogen oxides. Sodium oxides.

# **Section 11: TOXICOLOGICAL INFORMATION**

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

# **Acute toxicity**

Based on available data, the classification criteria are not met

Mixture No data available.

Substance No data available.

#### **Oral Exposure Route:**

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Sodium metabisulfite	Rat LD₅₀	500 mg/kg	None reported	None reported	No information available
Butanedioic acid	Rat LD <sub>50</sub>	2260 mg/kg	None reported	None reported	Vendor SDS

#### **Dermal Exposure Route:**

Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time		sources for data
Sodium metabisulfite	Rat	> 2000 mg/kg	None reported	None reported	LOLI
	LD <sub>50</sub>				

# Inhalation (Dust/Mist) Exposure Route:

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Sodium metabisulfite	Rat LC <sub>50</sub>	> 5.5 mg/L	4 hours	None reported	RTECS

# Acute Toxicity Estimate (ATE) Not applicable

ATEMIX (Oral)   1,718.20 mg/kg	MICHINA (VIAI) II./ 10.20 IIIU/NU	ATEmix (oral)	
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### Unknown acute toxicity

0 % of the mixture consists of ingredient(s) of unknown toxicity.

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

# **Skin corrosion/irritation**

Classification based on data available for ingredients. Causes skin irritation.

Mixture No data available.

Substance Test data reported below.

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Butanedioic acid, disodium salt	None reported	Rabbit	None reported	None reported	Not corrosive or irritating to skin	ECHA

# Serious eye damage/eye irritation

Classification based on data available for ingredients. Causes burns. Causes serious eye damage.

Mixture No data available.

Substance Test data reported below.

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Butanedioic acid, disodium salt	None reported	Rabbit	70 mg	2 days	Not corrosive or irritating to eyes	ECHA
Sodium metabisulfite	Draize Test	Rabbit	107 mg	None reported	Corrosive to eyes	RTECS
Butanedioic acid	Draize Test	Rabbit	0.750 mg	None reported	Corrosive to eyes	ECHA
Glycine, N,N-(1R,2R)-1,2-cycl ohexanediylbis[N-(car boxymethyl)-, sodium salt (1:2), rel-		Rabbit	None reported	None reported	Eye irritant	IUCLID

#### Respiratory or skin sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Mixture No data available.

Substance Test data reported below.

# Skin Sensitization Exposure Route:

Chemical name	Test method	Species	Results	Key literature references and sources for data
Butanedioic acid,	None reported	Guinea pig	No sensitisation responses were	ECHA
disodium salt			observed.	

# **Respiratory Sensitization Exposure Route:**

Chemical name	Test method	Species	Results	Key literature references and sources for data
Sodium metabisulfite	Based on human experience	Human	Confirmed to be a respiratory sensitizer	GESTIS

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**STOT - single exposure** 

May cause respiratory irritation.

Mixture No data available.

Substance No data available.

STOT - repeated exposure

Based on available data, the classification criteria are not met.

Mixture No data available.

Substance Test data reported below.

## **Oral Exposure Route:**

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Butanedioic acid,	Rat	2500 mg/kg	49 days	No toxicological effects	ECHA
disodium salt	NOAEL			observed	
Sodium metabisulfite	Rat	75 mg/kg	15 days	Biochemical	RTECS
	TDLo			Enzyme inhibition, induction, or	
				change in blood or tissue levels	
				(phosphatases and	
				dehydrogenases)	
				Kidney, Ureter, or Bladder	
				Other changes in urine	
				composition	

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Mixture invitro **Data** No data available.

Substance invitro **Data** Test data reported below.

Chemical name	Test	Cell Strain	Reported dose	Exposure time	Results	Key literature references and sources for data
Butanedioic acid, disodium salt	OECD 471	Salmonella typhimurium	5 mg/plate	48 hours	Negative	No information available
Sodium metabisulfite	Cytogenetic analysis	Hamster ovary	0.18 mg/L	None reported	Positive test result for mutagenicity	RTECS
Butanedioic acid	DNA inhibition	Human fibroblast	None reported	None reported	Positive test result for mutagenicity	RTECS

Mixture invivo **Data** No data available.

Substance invivo **Data** No data available.

Carcinogenicity

Based on available data, the classification criteria are not met.

Mixture No data available.

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Substance No data available.

Reproductive toxicity

Based on available data, the classification criteria are not met.

Mixture No data available.

Substance Test data reported below.

#### **Oral Exposure Route:**

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Butanedioic acid, disodium salt	Rat NOAEL	1000 mg/kg	14 days	No reproductive or developmental toxic effects observed	ECHA
Sodium metabisulfite	Rat TD∟₀	20000 mg/kg	None reported	Effects on Newborn Stillbirth	RTECS

#### **Aspiration hazard**

Based on available data, the classification criteria are not met.

### 11.2. Information on other hazards

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

### 11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** This product does not contain any known or suspected endocrine disruptors.

11.2.2. Other information

Other adverse effects No information available.

# **Section 12: ECOLOGICAL INFORMATION**

12.1. Toxicity

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

**Unknown aquatic toxicity**Contains 0 % of components with unknown hazards to the aquatic environment.

<u>Mixture</u>

Acute aquatic toxicity: No data available.

Aquatic Chronic Toxicity: No data available.

**Substance** 

Acute aquatic toxicity: Test data reported below.

Fish:

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Sodium metabisulfite	96 hours	Salmo gairdneri	LC <sub>50</sub>	15 mg/L	IUCLID
Butanedioic acid	96 hours	None reported	LC <sub>50</sub>	None reported	ECOSARS
Glycine, N,N-(1R,2R)-1,2-cyc lohexanediylbis[N-(c arboxymethyl)-,		None reported	LC50	35600 mg/L	ECOSARS

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sodium salt (1:2),			
rel-			

#### Crustacea:

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Butanedioic acid	48 Hours	None reported	EC50	918830 mg/L	ECOSARS
Glycine, N,N-(1R,2R)-1,2-cyc lohexanediylbis[N-(c arboxymethyl)-, sodium salt (1:2), rel-		None reported	LC50	26162 mg/L	ECOSARS

# Algae:

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Sodium metabisulfite	96 hours	Scenedesmus subspicatus	EC <sub>50</sub>	40 mg/L	IUCLID
Butanedioic acid	96 hours	None reported	EC <sub>50</sub>	254630 mg/L	ECOSARS
Glycine, N,N-(1R,2R)-1,2-cyc lohexanediylbis[N-(c arboxymethyl)-, sodium salt (1:2), rel-		None reported	EC50	56103 mg/L	ECOSARS

Aquatic Chronic Toxicity: No data available.

12.2. Persistence and degradability

Mixture No data available.

12.3. Bioaccumulative potential

Mixture: No data available.

Partition coefficient  $log K_{ow} = -2.65$ 

12.4. Mobility in soil

Soil Organic Carbon-Water Partition  $log K_{oc} = -0.02$ 

Coefficient

# 12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

Chemical name	PBT and vPvB assessment
Sodium metabisulfite	The substance is not PBT / vPvB
Butanedioic acid	The substance is not PBT / vPvB

# 12.6. Endocrine disrupting properties

Endocrine Disruptor Information: This product does not contain any known or suspected endocrine disruptors

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#### 12.7. Other adverse effects

No information available.

Not applicable Ozone:

Ozone depletion potential (ODP): No information available

# **Section 13: DISPOSAL CONSIDERATIONS**

#### 13.1. Waste treatment methods

### **Advice on Disposal**

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. Our local agencies will accept used cuvettes to ensure their

proper disposal.

#### Waste disposal number (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 (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 contents/containers in accordance with local regulations.

Other Information Waste codes should be assigned by the user based on the application for which the product

was used.

# **Section 14: TRANSPORT INFORMATION**

# ADR\_\_\_\_

	_	
14.1	<b>UN</b> number or ID number	Not regulated
14.2	UN proper shipping name	Not regulated
14.3	Transport hazard class(es)	Not regulated
14.4	Packing Group	Not regulated
14.5	Environmental hazards	Not applicable

14.6 Special precautions for user

**Special Provisions** 

None

#### IATA

14.1	UN number or ID number	Not regulated
14.2	UN proper shipping name	Not regulated
14.3	Transport hazard class(es)	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazards	Not applicable

14.6 Special precautions for user

**Special Provisions** None

14.1 UN number or ID number Not regulated

BE / EGHS Page 14/18 14.2 UN proper shipping name
 14.3 Transport hazard class(es)
 14.4 Packing Group
 14.5 Environmental hazards
 Not regulated Not regulated Not applicable

14.6 Special precautions for user

Special Provisions None

**14.7 Maritime transport in bulk** No information available

according to IMO instruments

#### **Additional information**

If the item is part of a reagent set or kit the classification would change to the following: UN3316 Chemical Kit, Hazard Class 9, Packing Group II or III.

If the item is not regulated, the Chemical Kit classification does not apply.

# **Section 15: REGULATORY INFORMATION**

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

# National regulations

#### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Take note of Directive 94/33/EC on the protection of young people at work

#### Authorisations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name		Substance subject to authorisation per
	Annex XVII	REACH Annex XIV
Sodium metabisulfite - 7681-57-4	Use restricted. See entry 75.	

Persistent Organic Pollutants Not applicable

Dangerous substance category per Seveso Directive (2012/18/EU)

Non-controlled

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

Germany

Water hazard class (WGK) obviously hazardous to water (WGK 2)

#### **France**

# Occupational Illnesses (R-463-3, France)

Chemical name	French RG number	Title
Sodium metabisulfite	RG 66	-

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7681-57-4	RG 15bis,RG 74	

International Inventories

Complies **EINECS/ELINCS** Complies **TSCA** DSL/NDSL Complies Complies **ENCS** Does not comply **IECSC** Complies KECL **PICCS** Does not comply **AICS** Does not comply

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

#### 15.2. Chemical safety assessment

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

# **Section 16: OTHER INFORMATION**

 Issue Date
 09-Jan-2006

 Revision Date
 28-Mar-2024

**Revision Note** updated SDS sections:

2 8

# Key or legend to abbreviations and acronyms used in the safety data sheet

#### Legend

\*\* Hazard Designation

ADN Accord européen relatif au transport international des marchandises dangereuses par voies

de navigation intérieure

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE Acute Toxicity Estimate

CAS Chemical Abstracts Service Number

Ceiling Maximum limit value

CLP Classification, Labelling and Packaging of substances and mixtures [Regulation (EC) No.

1272/2008]

DNEL Derived No Effect Level (DNEL)

EC European Community

ECHA (The European Chemicals Agency)

EC50 Effective Concentration to 50% of a test population

EEC European Economic Community

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EN European Standard

IMDG International Maritime Dangerous Goods (IMDG)
IATA International Air Transport Association (IATA)

IATA-DGR International Air Transport Association - Dangerous Goods Regulations

ICAO International Civil Aviation Organization

ICAO-TI International Civil Aviation Organization - Technical Instructions
IUCLID IUCLID (The International Uniform Chemical Information Database)
GHS Globally Harmonized System of Classification and Labelling of Chemicals

LOAEL Lowest observed adverse effect level

LOAEC Lowest observed adverse effect concentration LC50 Lethal Concentration to 50% of a test population

LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)
LOLI (List of Lists - An International Chemical Regulatory Database)

MAK

Maximale Arbeitsplatz-Konzentration, a German expression corresponding to threshold limit

value, which relates to safe daily exposure levels to chemical substances

NOAEL NOAEL (No observed adverse effect level)
NOAEC No observed adverse effect concentration

OSHA (Occupational Safety and Health Administration of the US Department of Labour)

PEC Predicted Effect Concentration

PNEC Predicted No Effect Concentration (PNEC)

PBT Persistent, Bioaccumulative, and Toxic (PBT) Chemicals

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals [Regulation (EC) No.

1907/2006])

RTECS RTECS (Registry of Toxic Effects of Chemical Substances)

TWA TWA (time-weighted average)

SKN\* Skin designation SKN+ Skin sensitisation

STEL STEL (Short Term Exposure Limit)
STOT Specific Target Organ Toxicity

STOT RE Specific target organ toxicity — repeated exposure STOT SE Specific target organ toxicity — single exposure

SVHC Substances of Very High Concern

TLV Threshold Limit Value

TRGS Technical rules for hazardous substances, Germany

TSCA Toxic Substances Control Act

UN United Nations

vPvB very persistent and very bioaccumulative

VOC Volatile organic compounds

AwSV Administrative regulation of water polluting substances, Germany

# Key literature references and sources for data

See Section 11: TOXICOLOGICAL INFORMATION See Section 12: ECOLOGICAL INFORMATION

# Classification procedure

Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - Vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method

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Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration toxicity	Calculation method
Ozone	Calculation method

# Full text of H-Statements referred to under section 3

EUH031 - Contact with acids liberates toxic gas

H302 - Harmful if swallowed

H318 - Causes serious eye damage

Training Advice Take note of Directive 98/24/EC on the protection of the health and safety of workers from

the risks related to chemical agents at work

**Restrictions on use** For Laboratory Use Only.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

**End of Safety Data Sheet** 

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