

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 05-Jul-2022 Revision Number 1.1

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

1.1. Product identifier

USA

Product Name GS HIV 1/2 Plus O Conjugate Concentrate

Catalogue Number(s) 25122

Pure substance/mixture Mixture

Contains 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone

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

Recommended use In-vitro laboratory reagent or component

Restricted to professional users

Use according to package label instructions

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Corporate HeadquartersManufacturerBio-Rad Laboratories Inc.Bio-Rad Laboratories1000 Alfred Nobel Drive6565-185th Ave NEHercules, CA 94547Redmond, WA 98052

USA

Legal Entity / Contact Address

Bio-Rad Laboratories Ltd

The Junction Station Road Watford, WD17 1ET

UK

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Ireland: Techsupport.UK@bio-rad.com India: support.india@bio-rad.com

South Africa: cdg_techsupport_eemea@bio-rad.com

1.4. Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC Ireland: 353-19014670

CHEMTREC India: 000-800-100-7141 CHEMTREC South Africa: 0-800-983-611

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

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Skin sensitization	Category 1A - (H317)
Chronic aquatic toxicity	Category 3 - (H412)

2.2. Label elements

Contains 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone



Signal word Warning

Hazard statements

H317 - May cause an allergic skin reaction

H412 - Harmful to aquatic life with long lasting effects

Precautionary Statements - EU (§28, 1272/2008)

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

P273 - Avoid release to the environment

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

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

2.3. Other hazards

Contains animal source material. (Goat). (Cattle). Harmful to aquatic life.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Component	Description
Conjugate Concentrate	Purified HIV-1 and HIV-2 antigens labeled with peroxidase in a buffer with protein stabilizers (bovine and
	caprine) and green dye (food grade).Preserved with 0.005% gentamicin sulfate, CAS# 1405-41-0 and
	0.5% ProClin 300 containing 0.015% active ingredient, CAS# 55965-84-9, 5-Chloro-2-methyl-3
	(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone

Chemical name	Weight-%	REACH registration number	EC No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Hydrochloric acid 7647-01-0	0.3 - 0.999	No data available	231-595-7	Skin Corr. 1B (H314) Eye Irrit. 2 (H319) STOT SE 3 (H335)	Eye Irrit. 2 :: 1%<=C<3% Skin Corr. 1B :: C>=5% Skin Irrit. 2 :: 1%<=C<5% STOT SE 3 :: C>=10%	-	-
Sodium chloride 7647-14-5	0.1 - 0.299	No data available	231-598-3	No data available	-	-	-
5-Chloro-2-methyl-3	0.01 -	No data available	-	Acute Tox. 3 (H301)	Eye Irrit. 2 ::	100	100

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(2H)-isothiazolone,	0.099		Acute Tox. 3 (H311)	0.06%<=C<0.6	
mixture with			Acute Tox. 3 (H331)	%	
2-methyl-3(2H)-isoth			Skin Corr. 1B (H314)	Skin Corr. 1C	
iazolone			Eye Dam. 1 (H318)	:: C>=0.6%	
55965-84-9			Skin Sens. 1A (H317)	Skin Irrit. 2 ::	
			(EUH071)	0.06%<=C<0.6	
			Aquatic Acute 1	%	
			(H400)	Skin Sens. 1A	
			Aquatic Chronic 1	:: C>=0.0015%	
			(H410)	Eye Dam. 1 ::	
				C>=0.6%	

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

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapor - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Hydrochloric acid 7647-01-0	238	5010	No data available	No data available	563.3022
Sodium chloride 7647-14-5	3000	10000	No data available	No data available	No data available
5-Chloro-2-methyl-3(2H)-i sothiazolone, mixture with 2-methyl-3(2H)-isothiazol one 55965-84-9		87.12	No data available	No data available	No data available

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance.

Inhalation Remove to fresh air.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Skin contact Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation

or allergic reactions see a physician.

Ingestion Rinse mouth.

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

Symptoms Itching. Rashes. Hives.

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

Note to physicians May cause sensitization in susceptible persons. Treat symptomatically.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing mediaDo not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

Product is or contains a sensitizer. May cause sensitization by skin contact.

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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal

protective equipment as required. Evacuate personnel to safe areas. Keep people away

from and upwind of spill/leak.

6.2. Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

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 upTake up mechanically, placing in appropriate containers for disposal.

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 Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take

off contaminated clothing and wash before reuse.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

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Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Store according to product and label instructions.

7.3. Specific end use(s)

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		pean Union	Austria	Belgium		Igaria	Croatia
Hydrochloric acid	T۷	VA: 5 ppm	TWA: 5 ppm	TWA: 5 ppm	STEL	: 10 ppm	TWA: 5 ppm
7647-01-0		A: 8 mg/m ³	TWA: 8 mg/m ³	TWA: 8 mg/m ³	STEL: 1	5.0 mg/m ³	TWA: 8 mg/m ³
	ST	EL: 10 ppm	STEL 10 ppm	STEL: 10 ppm	TWA	: 5 ppm	STEL: 10 ppm
	STE	L: 15 mg/m ³	STEL 15 mg/m ³	STEL: 15 mg/m ³	TWA: 8	3.0 mg/m ³	STEL: 15 mg/m ³
5-Chloro-2-methyl-3(2H)-i		-	TWA: 0.05 mg/m ³	-		-	-
sothiazolone, mixture			Skin sensitizer				
with							
2-methyl-3(2H)-isothiazol							
one							
55965-84-9							
Chemical name		Cyprus	Czech Republic	Denmark		tonia	Finland
Hydrochloric acid		EL: 10 ppm	TWA: 8 mg/m ³	Ceiling: 5 ppm		: 5 ppm	STEL: 5 ppm
7647-01-0		L: 15 mg/m ³	Ceiling: 15 mg/m ³	Ceiling: 8 mg/m ³		8 mg/m ³	STEL: 7.6 mg/m ³
		VA: 5 ppm				: 10 ppm	
	TW	A: 8 mg/m ³			STEL:	15 mg/m ³	
Chemical name		France	Germany	Germany MAK		eece	Hungary
Hydrochloric acid		EL: 5 ppm	TWA: 2 ppm	TWA: 2 ppm		: 5 ppm	TWA: 8 mg/m ³
7647-01-0	STE	L: 7.6 mg/m ³	TWA: 3 mg/m ³	TWA: 3.0 mg/m ³		7 mg/m ³	STEL: 16 mg/m ³
				Peak: 4 ppm	STEL	.: 5 ppm	
				Peak: 6 mg/m ³	STEL:	7 mg/m ³	
Chemical name		Ireland	Italy	Italy REL		atvia	Lithuania
Hydrochloric acid		A: 8 mg/m ³	TWA: 5 ppm	Ceiling: 2 ppm		: 5 ppm	TWA: 5 ppm
7647-01-0		VA: 5 ppm	TWA: 8 mg/m ³	Ceiling: 2.9 mg/m ³		8 mg/m ³	TWA: 8 mg/m ³
		EL: 10 ppm	STEL: 10 ppm			: 10 ppm	STEL: 10 ppm
	STE	L: 15 mg/m ³	STEL: 15 mg/m ³			15 mg/m ³	STEL: 15 mg/m ³
Sodium chloride		-	-	-	TWA:	5 mg/m ³	TWA: 5 mg/m ³
7647-14-5							
Chemical name		xembourg	Malta	Netherlands		rway	Poland
Hydrochloric acid		EL: 10 ppm	STEL: 10 ppm	TWA: 8 mg/m ³		g: 5 ppm	STEL: 10 mg/m ³
7647-01-0		L: 15 mg/m ³	STEL: 15 mg/m ³	STEL: 15 mg/m ³	Ceiling	: 7 mg/m ³	TWA: 5 mg/m ³
		VA: 5 ppm	TWA: 5 ppm				
		A: 8 mg/m ³	TWA: 8 mg/m ³				
Chemical name		Portugal	Romania	Slovakia		venia	Spain
Hydrochloric acid		VA: 5 ppm	TWA: 5 ppm	TWA: 5 ppm		: 5 ppm	TWA: 5 ppm
7647-01-0		A: 8 mg/m ³	TWA: 8 mg/m ³	TWA: 8.0 mg/m ³		8 mg/m ³	TWA: 7.6 mg/m ³
		EL: 10 ppm	STEL: 10 ppm	Ceiling: 15 mg/m ³		: 10 ppm	STEL: 10 ppm
		L: 15 mg/m ³	STEL: 15 mg/m ³		STEL:	15 mg/m ³	STEL: 15 mg/m ³
	Cei	ling: 2 ppm					
Chemical name			weden	Switzerland			ted Kingdom
Hydrochloric acid			/: 2 ppm	TWA: 2 ppm			WA: 1 ppm
7647-01-0			3 mg/m ³	TWA: 3 mg/m ³			VA: 2 mg/m³
			KGV: 4 ppm	STEL: 4 ppm			TEL: 5 ppm
		Bindande	KGV: 6 mg/m ³	STEL: 6 mg/m ³		ST	EL: 8 mg/m ³
5-Chloro-2-methyl-3(2H)-i			-	TWA: 0.2 mg/m	3		-
zolone, mixture with							
2-methyl-3(2H)-isothiazo	lone						

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55965-84-9		

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) Predicted No Effect Concentration (PNEC)

No information available.

8.2. Exposure controls

Personal protective equipment

Wear safety glasses with side shields (or goggles). Eye/face protection

Hand protection Wear suitable gloves.

Skin and body protection Wear suitable protective clothing.

No protective equipment is needed under normal use conditions. If exposure limits are Respiratory protection

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid

Appearance aqueous solution

Colour green

Odour No information available. **Odour threshold** No information available

Property Values Remarks • Method

Melting point / freezing point No data available None known Boiling point / boiling range No data available None known Flammability (solid, gas) No data available None known Flammability Limit in Air None known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

No data available Flash point None known **Autoignition temperature** No data available None known None known

Decomposition temperature pН

No data available No information available pH (as aqueous solution) Kinematic viscosity No data available None known No data available None known Dynamic viscosity

Insoluble Water solubility No data available Solubility(ies) None known **Partition coefficient** No data available None known No data available Vapour pressure None known None known

Relative density No data available No data available **Bulk density Liquid Density** No data available

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GS HIV 1/2 Plus O Conjugate Concentrate

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Vapour density No data available None known

Vapour density

Particle characteristics

Particle characteristics
Particle Size

Particle Size Distribution

No information available No information available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Not applicable

9.2.2. Other safety characteristics

No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions
None under normal processing.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

Incompatible materialsNone known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

SECTION 11: Toxicological information

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

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available.

Eye contact Specific test data for the substance or mixture is not available.

Skin contact May cause sensitization by skin contact. Specific test data for the substance or mixture is

not available. Repeated or prolonged skin contact may cause allergic reactions with

susceptible persons. (based on components).

Ingestion Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

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Symptoms Itching. Rashes. Hives.

Acute toxicity

Numerical measures of toxicity

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Hydrochloric acid	238 - 277 mg/kg (Rat)	> 5010 mg/kg (Rabbit)	= 1.68 mg/L (Rat) 1 h
Sodium chloride	= 3 g/kg (Rat)	> 10000 mg/kg (Rabbit)	> 42 mg/L (Rat)1 h
5-Chloro-2-methyl-3(2H)-isothia zolone, mixture with 2-methyl-3(2H)-isothiazolone	= 53 mg/kg (Rat)	= 87.12 mg/kg (Rabbit)	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritationNo information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

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.

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Unknown aquatic toxicity

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

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Sodium chloride	-	LC50: 4747 - 7824mg/L (96h, Oncorhynchus mykiss) LC50: 5560 - 6080mg/L (96h, Lepomis macrochirus) LC50: 6020 - 7070mg/L (96h, Pimephales promelas) LC50: 6420 - 6700mg/L (96h, Pimephales promelas) LC50: =12946mg/L (96h, Lepomis macrochirus) LC50: =7050mg/L (96h, Pimephales promelas)	•	EC50: 340.7 - 469.2mg/L (48h, Daphnia magna) EC50: =1000mg/L (48h, Daphnia magna)

12.2. Persistence and degradability

Persistence and degradability

No information available.

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

Chemic	al name	Partition coefficient
5-Chloro-2-methyl-3(2H)-	isothiazolone, mixture with	0.7
2-methyl-3(2H)-isothiazolone	

12.4. Mobility in soil

Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

Chemical name	PBT and vPvB assessment
Hydrochloric acid	The substance is not PBT / vPvB PBT assessment does
·	not apply
Sodium chloride	The substance is not PBT / vPvB
5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Do not reuse empty containers.

SECTION 14: Transport information

IATA

14.1 UN number or ID number
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 regulated
Not applicable

14.6 Special Precautions for Users

Special Provisions None

IMDG

14.1 UN number or ID number
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 Users

Special Provisions None

14.7 Maritime transport in bulk according to IMO instruments

No information available

RID

14.1 UN numberNot regulated14.2 UN proper shipping nameNot regulated14.3 Transport hazard class(es)Not regulated14.4 Packing groupNot regulated14.5 Environmental hazardsNot applicable

14.6 Special Precautions for Users

Special Provisions None

ADR

14.1 UN number or ID numberNot regulated14.2 UN proper shipping nameNot regulated14.3 Transport hazard class(es)Not regulated14.4 Packing groupNot regulated14.5 Environmental hazardsNot applicable

14.6 Special Precautions for Users

Special Provisions None

SECTION 15: Regulatory information

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

National regulations

France

Occupational Illnesses (R-463-3, France)

	Chemical name	French RG number	Title
Г	Sodium chloride	RG 78	-
	7647-14-5		

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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.

Authorizations 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	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
Hydrochloric acid - 7647-01-0	75.	-
5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone - 55965-84-9	75.	-

Persistent Organic Pollutants

Not applicable

Named dangerous substances per Seveso Directive (2012/18/EU)

The state of the s		110 (2012)	
	Chemical name	Lower-tier requirements (tons)	Upper-tier requirements (tons)
	Hydrochloric acid - 7647-01-0	25	250

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

Not applicable

Plant protection products directive (91/414/EEC)

a p.		
	Chemical name	Plant protection products directive (91/414/EEC)
	Sodium chloride - 7647-14-5	Plant protection agent

EU - Biocides

Chemical name	EU - Biocides
Hydrochloric acid - 7647-01-0	Product-type 2: Disinfectants and algaecides not intended
	for direct application to humans or animals

<u>International Inventories</u> Contact supplier for inventory compliance status

15.2. Chemical safety assessment

Chemical Safety Report No information available

SECTION 16: Other information

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

Full text of H-Statements referred to under section 3

EUH071 - Corrosive to the respiratory tract

H301 - Toxic if swallowed

H311 - Toxic in contact with skin

H314 - Causes severe skin burns and eye damage

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H319 - Causes serious eye irritation

H331 - Toxic if inhaled

H335 - May cause respiratory irritation

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

Legend

SVHC: Substances of Very High Concern for Authorisation:

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Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value * Skin designation

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	
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 hazard	Calculation method	
Ozone	Calculation method	

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)

European Chemicals Agency (ECHA) (ECHA_API)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Revision Note Reformatted and updated existing information

Revision date 05-Jul-2022

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

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

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