

Australian statement of hazardous nature: Classified as hazardous according to criteria of Safe Work Australia

Section 1 - Identification

Product Name Reagent set detergents crystal violet method

Product Code 1444049 Benzene, 100868 Detergents Reagent Powder Pillows, 45249 Buffer

Solution, Sulfate Type

Address ThermoFisher Scientific Australia Pty Ltd

5 Caribbean Drive, Scoresby VICTORIA 3179, Australia

Emergency Tel. CHEMTREC®

03 9757 4559 or +613 9757 4559

Telephone / Fax Numbers Tel: 1300 735 292

Fax: 1800 067 639

E-mail address ANZinfo@thermofisher.com

Recommended Use Laboratory chemicals.

Uses advised against This product does not contain any substance(s) on the Illicit Drug Precursors/Reagents list.

> This product contains one or more substance(s) subject to Prohibition, Authorization or Restriction. Verify that requirements related to using, handling, and storing substances subject to prohibition, authorization or restriction are met. This product does not contain any substance(s) listed on the voluntary National Code of Practice for Chemicals of

Security Concern.

Section 2 - Hazard(s) Identification

Classification under Safe Work Australia

Classified as hazardous according to criteria of Safe Work Australia

Physical hazards

Flammable liquids Category 2

Substances/mixtures corrosive to metal Category 1

Health hazards

Aspiration Toxicity Category 1 Skin Corrosion/Irritation Category 2 Serious Eye Damage/Eye Irritation Category 1 Germ Cell Mutagenicity Category 1B Category 1

Specific target organ toxicity - (repeated exposure)

Environmental hazards

Chronic aquatic toxicity Category 3

Label Elements

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Signal Word

Danger

Hazard Statements

H225 - Highly flammable liquid and vapor

H290 - May be corrosive to metals

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H318 - Causes serious eye damage

H340 - May cause genetic defects

H372 - Causes damage to organs through prolonged or repeated exposure

H412 - Harmful to aquatic life with long lasting effects

Precautionary Statements

P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

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

P233 - Keep container tightly closed

P234 - Keep only in original packaging

P240 - Ground and bond container and receiving equipment

P242 - Use non-sparking tools

P243 - Take action to prevent static discharges

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P264 - Wash face, hands and any exposed skin thoroughly after handling

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

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 or doctor

P331 - Do NOT induce vomiting

P363 - Wash contaminated clothing before reuse

P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

P390 - Absorb spillage to prevent material damage

P403 + P235 - Store in a well-ventilated place. Keep cool

P406 - Store in corrosion resistant polypropylene container with a resistant inliner

P501 - Dispose of contents/ container to an approved waste disposal plant

Other information

Toxic to terrestrial vertebrates

This product does not contain any known or suspected endocrine disruptors

Section 3 - Composition and Information on Ingredients

Component	CAS No	Weight %
Benzene	71-43-2	Benzene
Sodium chloride	7647-14-5	Detergents Reagent Powder Pillows
Water	7732-18-5	Buffer Solution, Sulfate Type
Sodium sulfate	7757-82-6	Buffer Solution, Sulfate Type
Sodium bisulfate	7681-38-1	Buffer Solution, Sulfate Type

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C.I. Basic violet 1	548-62-9	Detergents Reagent Powder Pillows

Section 4 - First Aid Measures

Inhalation Risk of serious damage to the lungs (by aspiration).

Ingestion Do NOT induce vomiting. Call a physician or poison control center immediately. If vomiting

occurs naturally, have victim lean forward.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes.

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

Consult a physician.

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.

First Aid Facilities Eyewash, safety shower and washroom.

Most important symptoms and

effects

Difficulty in breathing. Causes eye burns. Causes severe eye damage. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea

and vomiting

Notes to Physician Treat symptomatically.

Section 5 - Fire Fighting Measures

Suitable Extinguishing Media

Water mist may be used to cool closed containers.

Extinguishing media which must not be used for safety reasons

No information available.

Specific Hazards Arising from the Chemical

Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

Special protective equipment and precautions for fire fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6 - Accidental Release Measures

Emergency procedures

Remove all sources of ignition. Take precautionary measures against static discharges.

Environmental Precautions

See Section 12 for additional Ecological Information. Avoid release to the environment. Collect spillage. Do not flush into surface water or sanitary sewer system.

Methods for Containment and Clean Up

Clean-up methods - small spillage

Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

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Clean-up methods - large spillage

Typically only supplied is small quantiites as packaged goods.

If extremely toxic or used in larger quantities ensure a spillage action plan is in place. Evacuate area. Control the source and/or contain the spill if safe and able to do so. Use temporary diking, sand bags, dry sand, earth or proprietary booms/absorbent pads if available. Obtain advice on containment, neutralisation and clean-up from local emergency responders.

Reference to Other Sections

Refer to protective measures listed in Sections 8 and 13.

Section 7 - Handling and Storage

Precautions for Safe Handling

Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Take precautionary measures against static discharges.

Conditions for Safe Storage, Including any Incompatibilities

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

AS/NZS 2243.10:2004, Safety in laboratories - Storage of chemicals

AS 1940-2004 - The storage and handling of flammable and combustible liquids

Section 8 - Exposure Controls and Personal Protection

Exposure limits

AUS - Exposure Standards for Atmospheric Contaminants in the Occupational Environment - Guidance Note on the Interpretation of Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:3008(1995)]

Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)] updated in August, 2005. Safe Work Australia

ACGIH - Threshold Limit Values - Ceiling (TLV-C) guidelines by the American Conference of Governmental Industrial Hygienists (ACGIH) for controlling worker exposure to airborne chemical concentrations in the workplace.

UK - EH40/2005 Work Exposure Limits, Fourth edition. Published 2020.

DE - MAK and BAT values of Hazardous Chemical Compounds in the Work Area. Published by German Research Foundation on July 1, 2011

NZ - Workplace Exposure Standards and Biological Exposure Indices (6th edition). New Zealand Department of Labor

Component	Australia	New Zealand WEL	ACGIH TLV	The United Kingdom	Germany
Benzene	TWA: 1 ppm	TWA: 0.05 ppm	TWA: 0.5 ppm	STEL: 3 ppm 15 min	Haut
	TWA: 3.2 mg/m ³	TWA: 0.16 mg/m ³	STEL: 2.5 ppm	STEL: 9.75 mg/m ³ 15	
	_	Skin	Skin	min	
				TWA: 1 ppm 8 hr	
				TWA: 3.25 mg/m ³ 8 hr	
				Carc.	
				Skin	

Biological limit values

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

Component	Australia	New Zealand	European Union	United Kingdom	Germany
Benzene		2 µg/g creatinine (urine)			
		end of shift			
		(S-Phenylmercapturic			
		acid)			

Exposure Controls

Engineering Measures

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting equipment.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or

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equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

Personal protective equipment

Goggles (Australian/New Zealand Standard AS/NZS 1337 - Eye protectors for Industrial **Eye Protection**

applications)

Hand Protection Protective gloves

Glove material	Breakthrough time	Glove thickness	AUS/NZ Standard	Glove comments
Disposable gloves	See manufacturers	-	AS/NZS 2161	(minimum requirement)
	recommendations			

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

Long sleeved clothing Skin and body protection

Use an AS/NZS 1716 approved respirator if exposure limits are exceeded or if irritation or **Repiratory Protection**

other symptoms are experienced. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained in line with AS/NZS 1715 on the use

and maintenance of repiratory protective devices (or AUS/NZ equivalent)

When RPE is used a face piece Fit Test should be conducted

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls Prevent product from entering drains. Do not allow material to contaminate ground water

system.

Section 9 - Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance

Physical State Liquid

No information available Odor

Odor Threshold No data available pН Not applicable No data available Melting Point/Range **Softening Point** No data available **Boiling Point/Range** 80 °C / 176 °F

-11 °C / 12.2 °F **Flash Point** Method - No information available

Evaporation Rate No data available

Flammability (solid,gas) Not applicable Liquid No data available **Explosion Limits**

No data available **Vapor Pressure**

Vapor Density No data available (Air = 1.0)Specific Gravity / Density No data available

Bulk Density Not applicable Liquid

Water Solubility No information available

Solubility in other solvents No information available

Partition Coefficient (n-octanol/water) log Pow Component Benzene

2.13 Sodium sulfate -3 C.I. Basic violet 1 0.51

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Reagent set detergents crystal violet method

SAFETY DATA SHEET

Autoignition Temperature Decomposition Temperature Viscosity

No data available No data available No data available

Explosive Properties Oxidizing Properties

No information available

Vapors may form explosive mixtures with air

Other information

Section 10 - Stability and Reactivity

Reactivity None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Keep away from open flames, hot surfaces and sources of ignition.

Incompatible Materials None known.

Hazardous Decomposition Products None under normal use conditions.

Hazardous Polymerization No information available.

Section 11 - Toxicological Information

Information on Toxicological Effects

Product Information

(a) acute toxicity;

OralBased on available data, the classification criteria are not metDermalBased on available data, the classification criteria are not metInhalationBased on available data, the classification criteria are not met

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Benzene	LD50 = 810 mg/kg (Rat)	LD50 > 8200 mg/kg (Rabbit)	LC50 = 44.66 mg/L (Rat) 4 h
Sodium chloride	LD50 = 3 g/kg (Rat)	LD50 > 10000 mg/kg (Rabbit)	LC50 > 42 mg/L (Rat) 1 h
Water	-	-	-
Sodium sulfate	LD50 > 10000 mg/kg (Rat)		LC50 > 2.4 mg/L (Rat) 4 h
Sodium bisulfate	LD50 = 2490 mg/kg (Rat)	>2000 mg/kg (rabbit)	
C.I. Basic violet 1	LD50 = 420 mg/kg (Rat)		

(b) skin corrosion/irritation; Category 2

(c) serious eye damage/irritation; Category 1

(d) respiratory or skin sensitization;

Respiratory SkinNo data available
No data available

(e) germ cell mutagenicity; Category 1B

(f) carcinogenicity; Category 1A

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The table below indicates whether each agency has listed any ingredient as a carcinogen

Component	Australia	New Zealand	New South	Western	IARC	EU	UK	Germany
			Wales	Australia				-
Benzene	Notifiable Carcinogen	Confirmed carcinogen	Notifiable	Requires Approval for Use	Group 1	Carc Cat. 1A		Cat. 1
C.I. Basic violet 1					Group 2B	Carc Cat. 2		

(g) reproductive toxicity; No data available

(h) STOT-single exposure; No data available

(i) STOT-repeated exposure; Category 1

No information available. **Target Organs**

Category 1 (j) aspiration hazard;

Symptoms / effects,both acute and Inhalation of high vapor concentrations may cause symptoms like headache, dizziness,

delayed tiredness, nausea and vomiting

Section 12 - Ecological Information

Ecotoxicity effects

Contains a substance which is:. Harmful to aquatic organisms. The product contains following substances which are hazardous for the environment. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Toxic to aquatic organisms.

Component	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
Benzene	LC50: = 22.49 mg/L,	EC50: = 10 mg/L, 48h	EC50: = 29 mg/L, 72h	
	96h static (Lepomis	(Daphnia magna)	(Pseudokirchneriella	
	macrochirus)	EC50: 8.76 - 15.6 mg/L,	subcapitata)	
	LC50: = 5.3 mg/L, 96h	48h Static (Daphnia		
	flow-through	magna)		
	(Oncorhynchus mykiss)			
	LC50: 70000 - 142000			
	μg/L, 96h static			
	(Lepomis macrochirus)			
	LC50: = 28.6 mg/L, 96h			
	static (Poecilia			
	reticulata)			
	LC50: 22330 - 41160			
	μg/L, 96h static			
	(Pimephales promelas)			
	LC50: 10.7 - 14.7 mg/L,			
	96h flow-through			
	(Pimephales promelas)			
Sodium chloride	Pimephals prome:	EC50: 1000 mg/L/48h		
Sodium chloride	LC50: 7650 mg/L/96h	EC30. 1000 Hig/L/46H		
Sodium sulfate	Pimephales promelas:	EC50: 4547 mg/L/96h	-	-
	LC50: 13.5 - 14.5	EC50: 2564 mg/L/48h		
	g/L/96h	EC50: 4547 mg/L/96h		
Sodium bisulfate		EC50: = 190 mg/L, 48h		EC10 >1000 mg/l
		(Daphnia magna)		(Pseudomonas putida)
				(16h)
C.I. Basic violet 1		EC50 = 0.24 - 5 mg/l, 48		
		h (Daphnia magna	72 h	
		(Water flea)) OECD 202	(Pseudokirchneriella	
			subcapitata)	
			OECD 201	
Devoiates as and Degradability	No information availab	<u> </u>		

Persistence and Degradability

No information available

Persistence is unlikely, based on information available. **Persistence**

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Component	Degradability
C.I. Basic violet 1	10 %
548-62-9 (Detergents Reagent Powder Pillows)	

Degradation in sewage treatment plant Bioaccumulative Potential

Contains substances known to be hazardous to the environment or not degradable in waste water treatment plants.

Bioaccumulation is unlikely

Component	log Pow	Bioconcentration factor (BCF)
Benzene	2.13	3.5 - 4.4 dimensionless
Sodium sulfate	-3	No data available
C.I. Basic violet 1	0.51	No data available

Mobility

The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces. Will likely be mobile in the environment due to its volatility Disperses rapidly in

air

Endocrine Disruptor Information Persistent Organic Pollutant Ozone Depletion Potential This product does not contain any known or suspected endocrine disruptors

This product does not contain any known or suspected substance This product does not contain any known or suspected substance

Section 13 - Disposal Considerations

Waste from Residues/Unused Products

Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with all federal, E.P.A., state and local regulations. Assure conformity with all applicable regulations.

Contaminated Packaging

Dispose of this container to hazardous or special waste collection point. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep product and empty container away from heat and sources of ignition.

Other Information

Chemical wastes should be disposed through a licensed commercial waste collection service. Do not flush to sewer. Waste codes should be assigned by the user based on the application for which the product was used. Can be landfilled or incinerated, when in compliance with local regulations. Do not empty into drains. Do not let this chemical enter the environment.

Section 14 - Transport Information

IMDG/IMO

UN-No UN1114
Proper Shipping Name Benzene

Technical Shipping Name Kit containing Benzene

Hazard Class 3
Packing Group ||

<u>ADG</u>

UN-No UN1114
Proper Shipping Name Benzene

Technical Shipping Name Kit containing Benzene

Hazard Class 3
Packing Group ||

Component	Hazchem Code
Benzene	3WE
71-43-2 (Benzene)	

<u>IATA</u>

UN-No UN1114

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Proper Shipping Name Benzene

Technical Shipping Name Kit containing Benzene

Hazard Class 3
Packing Group

Environmental hazards No hazards identified

Special Precautions No special precautions required

Additional information None known

Section 15 - Regulatory Information

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

National Regulations Australia

See section 8 for national exposure control parameters.

Component	Health Surveillance
Benzene	Listed
71-43-2 (Benzene)	Demographic, medical and occupational history
	Records of personal exposure
	Physical examination
	Baseline blood sample for haematological profile

Standard for the Uniform Scheduling of Medicines and Poisons

Classified as a scheduled poison according to the Standard for Uniform Scheduling of Medicines and Poisons.

Component	Standard for the Uniform Scheduling of Medicines and Poisons
Benzene - 71-43-2	Schedule 5 listed - including Kerosene, Diesel [distillate], Mineral turpentine, White petroleum spirit, Toluene, Xylene and light mineral and paraffin oils but except their derivative; except a) Toluene and Xylene when included in Schedule 6, b) Benzene and liquid aromatic hydrocarbons when included in Schedule 7, c) food grade and pharmaceutical grade White mineral oil, d) in solid or semi-solid preparations, e) in preparations containing <=25% of designated solvents, f) in preparations packed in pressurized spray packs, g) in adhesives packed in containers each containing <=50 grams of adhesive, h) in writing correction fluids and thinners for writing correction fluids packed in containers having a capacity of <=20 mL, or i) in other preparations when packed in containers with a capacity of <=2 mL Schedule 7 listed
Sodium bisulfate - 7681-38-1	Schedule 5 listed - except in preparations containing <=10% of Sodium hydrogen sulfate
C.I. Basic violet 1 - 548-62-9	Schedule 4 listed - for human use except when used as a dermal marker Schedule 6 listed - except when included in Schedule 4 or 10 Schedule 10 listed

Australian Industrial Chemicals Introduction Scheme (AICIS)

Component	Australian Industrial Chemicals Introduction Scheme (AICIS)	Additional information
Benzene - 71-43-2	Present	Specific information requirement: Obligations to provide information apply. You must tell us within 28 days if the circumstances of your importation or manufacture (introduction) are different to those in our assessment.
Sodium chloride - 7647-14-5	Present	-
Water - 7732-18-5	Present	-
Sodium sulfate - 7757-82-6	Present	-
Sodium bisulfate - 7681-38-1	Present	-
C.I. Basic violet 1 - 548-62-9	Present	-

Australian - Illicit Drug Precursors/Reagents Substance List

This product does not contain any substance(s) on the Illicit Drug Precursors/Reagents list.

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Chemicals of Security Concern

This product does not contain any substance(s) listed on the voluntary National Code of Practice for Chemicals of Security Concern

National pollutant inventory Subject to reporting requirements

Component	National pollutant inventory
Benzene - 71-43-2	10 tonne/yr. Threshold category 1

Prohibition or notification/licensing requirements

Shown below are details of specific prohibition/notifications or licencing requirements when they apply.

This product contains one or more substance(s) subject to Prohibition, Authorization or Restriction. Verify that requirements related to using, handling, and storing substances subject to prohibition, authorization or restriction are met.

Component	Australia	New South Wales	Western Australia	New Zealand
Benzene - 71-43-2	Notifiable Carcinogen		Requires Approval for Use	Confirmed carcinogen

International Inventories

Component	AICS	NZIoC	EINECS	ELINCS	TSCA	DSL	NDSL	PICCS	ENCS	ISHL	IECSC	KECL
Benzene	X	X	200-753-7	-	Х	Х	-	Х	Χ	Х	Х	KE-02150
Sodium chloride	Х	Х	231-598-3	-	Х	Х	-	Х	Χ	Х	Х	KE-31387
Water	Х	Х	231-791-2	-	Х	Х	-	Х	Х		Х	KE-35400
Sodium sulfate	Х	Х	231-820-9	-	Х	Х	-	Х	Х	Х	Х	KE-31609
Sodium bisulfate	Х	Х	231-665-7	-	Χ	Х	-	Х	Χ	Х	Х	KE-31481
C.I. Basic violet 1	Х	Х	208-953-6	-	Х	Х	-	Х	Х	Х	Х	KE-07006

Legend: X - Listed. '-' - Not Listed. KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

International Regulations

Ozone Depletion Potential This product does not contain any known or suspected substance

Persistent Organic Pollutant This product does not contain any known or suspected substance

Rotterdam Convention (PIC) Not applicable

Basel convention on the control of transboundary movements of hazardous wastes and their dispoal Not applicable.

Component	CAS No	OECD HPV	Restriction of	Seveso III Directive	Seveso III Directive
			Hazardous	(2012/18/EC) -	(2012/18/EC) -
			Substances (RoHS)		Qualifying Quantities
				for Major Accident	for Safety Report
				Notification	Requirements
Benzene	71-43-2	Listed	Not applicable	Not applicable	Not applicable
Sodium chloride	7647-14-5	Listed	Not applicable	Not applicable	Not applicable
Water	7732-18-5	Listed	Not applicable	Not applicable	Not applicable
Sodium sulfate	7757-82-6	Listed	Not applicable	Not applicable	Not applicable
Sodium bisulfate	7681-38-1	Listed	Not applicable	Not applicable	Not applicable

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-						
	C.I. Basic violet 1	548-62-9	Not applicable	Not applicable	Not applicable	Not applicable

Authorisation/Restrictions according to EU REACH

Component	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Benzene	-	Use restricted. See item 72. (see link for restriction details) Use restricted. See item 5. (see link for restriction details) Use restricted. See item 28. (see link for restriction details) Use restricted. See item 29. (see link for restriction details) Use restricted. See item 75. (see link for restriction details)	-
Sodium bisulfate	-	Use restricted. See item 75. (see link for restriction details)	-
C.I. Basic violet 1	-	Use restricted. See item 28. (see link for restriction details) Use restricted. See item 72. (see link for restriction details) Use restricted. See item 75. (see link for restriction details)	SVHC Candidate list - Carcinogenic (Article 57a)

After the sunset date the use of this substance requires either an authorization or can only be used for exempted uses, e.g. use in scientific research and development which includes routine analytics or use as intermediate.

https://echa.europa.eu/authorisation-list

https://echa.europa.eu/candidate-list-table

https://echa.europa.eu/substances-restricted-under-reach

Section 16 - Other Information

Legend

AICS - Australian Inventory of Chemical Substances

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

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

IECSC - Chinese Inventory of Existing Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

TWA - Time Weighted Average

IARC - International Agency for Research on Cancer

ICAO/IATA - International Civil Aviation Organization/International Air Transport Association

MARPOL - International Convention for the Prevention of Pollution from Ships

NZS 5433:2020 - Transport of Dangerous Goods on Land

LD50 - Lethal Dose 50%

EC50 - Effective Concentration 50%
WEL - Workplace Exposure Limit
DNEL - Derived No Effect Level

POW - Partition coefficient Octanol:Water **vPvB** - very Persistent, very Bioaccumulative

VOC - (Volatile Organic Compound)

NZIoC - New Zealand Inventory of Chemicals

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

ENCS - Japanese Existing and New Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

CAS - Chemical Abstracts Service

ACGIH - American Conference of Governmental Industrial Hygienists Predicted No Effect Concentration (PNEC)

IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code

ADG - Australian Code for the Transport of Dangerous Goods by Road and Rail

OECD - Organisation for Economic Co-operation and Development

LC50 - Lethal Concentration 50% ATE - Acute Toxicity Estimate

RPE - Respiratory Protective Equipment NOEC - No Observed Effect Concentration

BCF - Bioconcentration factor

PBT - Persistent, Bioaccumulative, Toxic

Key literature references and sources for data

https://echa.europa.eu/information-on-chemicals

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and

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hygiene.

Revision Date 14-Jul-2023

Revision Summary Update to GHS format.

This Safety Data Sheet (SDS) is prepared in accordance to and complies with the requirements of Safe Work Australia - Work Health and Safety Regulations (WHS Regulations).

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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