

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SDS Reference Number: BPR094

Issue date: 01/11/2013 Revision date: 07/01/2025 Supersedes version of: 12/02/2018 Version: 1.3

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : British Pharmacopoeia Reagent - Crystal Violet Solution  
Product code : BPR094

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

##### Relevant identified uses

Main use category : Professional use  
Use of the substance/mixture : Laboratory chemical  
Function or use category : Laboratory chemicals

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

##### Spectracer UK Ltd.

20 Seymour Mews,  
London,  
W1H 6BQ,  
United Kingdom.

Tel: +44 (0) 207 193 9114

Fax: +44 (0) 203 432 4686

Email: [contact@spectracer.com](mailto:contact@spectracer.com)

Web: [www.spectracer.com](http://www.spectracer.com)

#### 1.4. Emergency telephone number

Country/Area	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	+353 1 8379964	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital Msida MSD 2090 Msida	112 +356 2545 6508	
United Kingdom	National Poisons Information Service (NHS Direct)	<a href="http://www.npis.org">http://www.npis.org</a>	111 (England & Wales only) or 112 (EU) or 08454 24 24 24 (Scotland)	

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Flammable liquids, Category 3 H226  
Skin corrosion/irritation, Category 1 H314  
Serious eye damage/eye irritation, Category 1 H318  
Hazardous to the aquatic environment – Chronic Hazard,  
Category 3 H412

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

# British Pharmacopoeia Reagent - Crystal Violet Solution

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. Causes severe skin burns and eye damage. Causes serious eye damage. Harmful to aquatic life with long lasting effects.

## 2.2. Label elements

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

Hazard pictograms (CLP)



GHS02

GHS05

Signal word (CLP)

: Danger

Contains

: acetic acid

Hazard statements (CLP)

: H226 - Flammable liquid and vapour.

H314 - Causes severe skin burns and eye damage.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP)

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

P273 - Avoid release to the environment.

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

P301+P330+P331+P310 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

Immediately call a POISON CENTER or doctor.

P303+P361+P353+P310 - IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor.

P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a

POISON CENTER or doctor.

## 2.3. Other hazards

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	C.I. Basic Violet 3; 4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (548-62-9), acetic acid (64-19-7)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	C.I. Basic Violet 3; 4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (548-62-9), acetic acid (64-19-7)

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

Component	
Substance(s) not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605	C.I. Basic Violet 3; 4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (548-62-9)

# British Pharmacopoeia Reagent - Crystal Violet Solution

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
acetic acid substance with national workplace exposure limit(s) (AT, BE, BG, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GI, GR, HR, HU, IE, IT, LT, LU, LV, MT, PL, PT, RO, SE, SK, AL, IS, NO, MK, RS, CH, TR); substance with a Community workplace exposure limit	CAS-No.: 64-19-7 EC-No.: 200-580-7 EC Index-No.: 607-002-00-6 REACH-no: 01-2119475328-30-XXXX	≥ 99	Flam. Liq. 3, H226 Skin Corr. 1A, H314
C.I. Basic Violet 3; 4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride substance listed on REACH Candidate List ([4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3))	CAS-No.: 548-62-9 EC-No.: 208-953-6 EC Index-No.: 612-204-00-2	0.5 – 1	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Carc. 2, H351 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410

#### Specific concentration limits:

Name	Product identifier	Specific concentration limits (%)
acetic acid	CAS-No.: 64-19-7 EC-No.: 200-580-7 EC Index-No.: 607-002-00-6 REACH-no: 01-2119475328-30-XXXX	(10 ≤ C < 25) Eye Irrit. 2; H319 (10 ≤ C < 25) Skin Irrit. 2; H315 (25 ≤ C < 90) Skin Corr. 1B; H314 (90 ≤ C < 100) 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

First-aid measures general	: Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Call a physician immediately.
First-aid measures for first aider	: First aid workers will be equipped with suitable personal protective equipment.

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

Symptoms/effects after inhalation	: None under normal conditions.
Symptoms/effects after skin contact	: Burns.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Burns.

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

Treat symptomatically.

# British Pharmacopoeia Reagent - Crystal Violet Solution

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.  
Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : Flammable liquid and vapour.  
Explosion hazard : No direct explosion hazard.  
Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 5.3. Advice for firefighters

- Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.  
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.  
Absorb spillage to prevent material damage.

##### For non-emergency personnel

- Protective equipment : Wear recommended personal protective equipment.  
Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray.

##### For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".  
Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

- For containment : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.  
Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.  
Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.  
Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray.

# British Pharmacopoeia Reagent - Crystal Violet Solution

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground/bond container and receiving equipment.  
Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.  
Packaging materials : Store always product in container of same material as original container.

#### Germany

Storage class (LGK, TRGS 510) : LGK 3 - Flammable liquids

Joint storage table

LGK 1	LGK 2A	LGK 2B	LGK 3	LGK 4.1A
LGK 4.1B	LGK 4.2	LGK 4.3	LGK 5.1A	LGK 5.1B
LGK 5.1C	LGK 5.2	LGK 6.1A	LGK 6.1B	LGK 6.1C
LGK 6.1D	LGK 6.2	LGK 7	LGK 8A	LGK 8B
LGK 10	LGK 11	LGK 12	LGK 13	LGK 10-13

Joint storage not permitted for : LGK 1, LGK 2A, LGK 4.1A, LGK 4.1B, LGK 4.2, LGK 4.3, LGK 5.1A, LGK 5.1C, LGK 5.2, LGK 6.1B, LGK 6.2, LGK 7

Joint storage with restrictions permitted for : LGK 5.1B, LGK 6.1D, LGK 11, LGK 10-13

Joint storage permitted for : LGK 2B, LGK 3, LGK 6.1A, LGK 6.1C, LGK 8A, LGK 8B, LGK 10, LGK 12, LGK 13

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### National occupational exposure and biological limit values

#### C.I. Basic Violet 3; 4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (548-62-9)

##### Austria - Occupational Exposure Limits

Local name	C.I. Basic Violet 3
Remark	Krebserzeugend: III B
Regulatory reference	BGBl. II Nr. 156/2021

#### acetic acid (64-19-7)

##### EU - Indicative Occupational Exposure Limit (IOEL)

Local name	Acetic acid
IOEL TWA	25 mg/m <sup>3</sup>
	10 ppm
IOEL STEL	50 mg/m <sup>3</sup>
	20 ppm
Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164

##### Albania - Occupational Exposure Limits

Local name	Acid acetik
OEL TWA	25 mg/m <sup>3</sup>
	10 ppm

# British Pharmacopoeia Reagent - Crystal Violet Solution

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

acetic acid (64-19-7)	
Regulatory reference	VENDIM Nr. 522, datë 6.8.2014 PËR MIRATIMIN E RREGULLORES "PËR MBROJTJEN E SIGURISË DHE SHËNETIT TË PUNËMARRËSVE NGA RISQET E LIDHURA ME AGJENTËT KIMIKË NË PUNË"
<b>Austria - Occupational Exposure Limits</b>	
Local name	Essigsäure
MAK (OEL TWA)	25 mg/m <sup>3</sup> 10 ppm
MAK (OEL STEL)	50 mg/m <sup>3</sup> (8x 5(Mow) min) 20 ppm (8x 5(Mow) min)
Regulatory reference	BGBI. II Nr. 156/2021
<b>Belgium - Occupational Exposure Limits</b>	
Local name	Acide acétique # Azijnzuur
OEL TWA	25 mg/m <sup>3</sup> 10 ppm
OEL STEL	38 mg/m <sup>3</sup> 15 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 16/11/2023
<b>Bulgaria - Occupational Exposure Limits</b>	
Local name	Оцетна киселина
OEL TWA	25 mg/m <sup>3</sup> 10 ppm
OEL STEL	50 mg/m <sup>3</sup> 20 ppm
Remark	• (Химични агенти, за които са определени гранични стойности във въздуха на работната среда за Европейската общност)
Regulatory reference	Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа (изм. и доп. ДВ. бр. 28 от 2024 г., в сила от 05.04.2024 г.)
<b>Croatia - Occupational Exposure Limits</b>	
Local name	Octena kiselina
GVI (OEL TWA)	25 mg/m <sup>3</sup> 10 ppm
KGVI (OEL STEL)	50 mg/m <sup>3</sup> 20 ppm
Remark	Direktiva: 2017/164/EU
Regulatory reference	Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, граничним vrijednostima izloženosti i biološkim граничним vrijednostima (NN 148/2023)
<b>Cyprus - Occupational Exposure Limits</b>	
Local name	Οξικό οξύ
OEL TWA	25 mg/m <sup>3</sup> 10 ppm

# British Pharmacopoeia Reagent - Crystal Violet Solution

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

acetic acid (64-19-7)	
OEL STEL	50 mg/m <sup>3</sup>
	20 ppm
Regulatory reference	Kανονισμοί του 2019 (Κ.Δ.Π. 16/2019)
Czech Republic - Occupational Exposure Limits	
Local name	Kyselina octová (Kyselina ethanová)
PEL (OEL TWA)	25 mg/m <sup>3</sup>
	10 ppm
NPK-P (OEL C)	50 mg/m <sup>3</sup>
	20 ppm
Remark	I - dráždí sliznice (oči, dýchací cesty) resp. kůži.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 330/2023 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Eddikesyre (Ethansyre)
OEL TWA	25 mg/m <sup>3</sup>
	10 ppm
OEL STEL	50 mg/m <sup>3</sup>
	20 ppm
Remark	E (betyder, at stoffet har en EF-grænseværdi)
Regulatory reference	BEK nr 291 af 19/03/2024
Estonia - Occupational Exposure Limits	
Local name	Etaanhape (äädikhape)
OEL TWA	25 mg/m <sup>3</sup>
	10 ppm
OEL STEL	25 mg/m <sup>3</sup>
	10 ppm
Regulatory reference	Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 02.04.2024, 13)
Finland - Occupational Exposure Limits	
Local name	Etikkahappo
HTP (OEL TWA)	13 mg/m <sup>3</sup>
	5 ppm
HTP (OEL STEL)	25 mg/m <sup>3</sup>
	10 ppm
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveysministeriö)
France - Occupational Exposure Limits	
Local name	Acide acétique
VME (OEL TWA)	25 mg/m <sup>3</sup>
	10 ppm
VLE (OEL C/STEL)	50 mg/m <sup>3</sup>
	20 ppm

# British Pharmacopoeia Reagent - Crystal Violet Solution

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

acetic acid (64-19-7)	
Remark	Valeurs réglementaires indicatives
Regulatory reference	Arrêté du 30 juin 2004 modifié (réf.: INRS ED 6443, 2022; Outil65; Arrête du 27 septembre 2019)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Essigsäure
AGW (OEL TWA)	25 mg/m <sup>3</sup> 10 ppm
Peak exposure limitation factor	2(l)
Remark	DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); EU - Europäische Union (Von der EU wurde ein Luftgrenzwert festgelegt: Abweichungen bei Wert und Spitzenbegrenzung sind möglich); Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden
Regulatory reference	TRGS900
Gibraltar - Occupational Exposure Limits	
Local name	Acetic acid
OEL TWA	25 mg/m <sup>3</sup> 10 ppm
OEL STEL	50 mg/m <sup>3</sup> 20 ppm
Regulatory reference	Factories (Control of Chemical Agents at Work) Regulations 2003 (LN. 2018/181)
Greece - Occupational Exposure Limits	
Local name	Οξικό οξύ
OEL TWA	25 mg/m <sup>3</sup> 10 ppm
OEL STEL	37 mg/m <sup>3</sup> 15 ppm
Regulatory reference	Π.Δ. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους
Hungary - Occupational Exposure Limits	
Local name	ECETSAV
AK (OEL TWA)	25 mg/m <sup>3</sup> 10 ppm
CK (OEL STEL)	50 mg/m <sup>3</sup> 20 ppm
Remark	m (maró hatású anyag, amely felmarja a bőrt, nyálkahártyát, szemet vagy mindhármat); EU4 (2017/164 EU irányelvben közölt érték); N (Irritáló anyagok, egyszerű fojtógázok, csekély egészségkárosító hatással bíró anyagok)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Ireland - Occupational Exposure Limits	
Local name	Acetic acid

# British Pharmacopoeia Reagent - Crystal Violet Solution

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

acetic acid (64-19-7)	
OEL TWA	25 mg/m <sup>3</sup>
	10 ppm
OEL STEL	50 mg/m <sup>3</sup>
	20 ppm
Remark	IOELV (Indicative Occupational Exposure Limit Values)
Regulatory reference	Chemical Agents Code of Practice 2024
Italy - Occupational Exposure Limits	
Local name	Acido acetico
OEL TWA	25 mg/m <sup>3</sup>
	10 ppm
OEL STEL	50 mg/m <sup>3</sup>
	20 ppm
Regulatory reference	Allegato XXXVIII del Decreto Legislativo 4 settembre 2024, n. 135
Latvia - Occupational Exposure Limits	
Local name	Etiķskābe (etānskābe)
OEL TWA	25 mg/m <sup>3</sup>
	10 ppm
OEL STEL	50 mg/m <sup>3</sup>
	20 ppm
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2024. gada 26. martā noteikumiem Nr. 191).
Lithuania - Occupational Exposure Limits	
Local name	Acto rūgštis
IPRV (OEL TWA)	25 mg/m <sup>3</sup>
	10 ppm
TPRV (OEL STEL)	50 mg/m <sup>3</sup>
	20 ppm
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)
Luxembourg - Occupational Exposure Limits	
Local name	Acide acétique
OEL TWA	25 mg/m <sup>3</sup>
	10 ppm
OEL STEL	50 mg/m <sup>3</sup>
	20 ppm
Regulatory reference	Mémorial A N° 226 de 2021 concernant la protection de la sécurité et de la santé des salariés contre les risques liés à des agents chimiques sur le lieu de travail
Malta - Occupational Exposure Limits	
Local name	Acetic acid
OEL TWA	25 mg/m <sup>3</sup>
	10 ppm

# British Pharmacopoeia Reagent - Crystal Violet Solution

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

acetic acid (64-19-7)	
OEL STEL	50 mg/m <sup>3</sup>
	20 ppm
Regulatory reference	S.L. 424.24 - Chemical Agents at Work Regulations (L.N. 356 of 2021) # L.S. 424.24 - Regolamenti dwar Aġenti Kimiċi fuq il-Post tax-Xogħol (A.L. 356 tal-2021)
Poland - Occupational Exposure Limits	
Local name	Kwas octowy
NDS (OEL TWA)	25 mg/m <sup>3</sup>
	10 ppm
NDSch (OEL STEL)	50 mg/m <sup>3</sup>
	20 ppm
Regulatory reference	Dz. U. 2024 poz. 1017 wraz z późn. zm.
Portugal - Occupational Exposure Limits	
Local name	Ácido acético
OEL TWA	10 ppm
OEL STEL	15 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
Romania - Occupational Exposure Limits	
Local name	Acid acetic
OEL TWA	25 mg/m <sup>3</sup>
	10 ppm
OEL STEL	50 mg/m <sup>3</sup>
	20 ppm
Regulatory reference	Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 179/2024)
Serbia - Occupational Exposure Limits	
Local name	сирћетна киселина
OEL TWA	25 mg/m <sup>3</sup>
	20 mg/m <sup>3</sup>
	50 mg/m <sup>3</sup>
	10 ppm
Remark	ЕУ**** – напомена да се ради о хемијским материјама за које су утврђене индикативне граничне вредности изложености према Директиви 2017/164/ЕУ (четврта листа)
Regulatory reference	ПРАВИЛНИК о превентивним мерама за безбедан и здрав рад при излагању хемијским материјама („Службени гласник РС”, бр. 106/09, 117/17 и 107/21)
Slovakia - Occupational Exposure Limits	
Local name	Kyselina octová (kyselina etánová)
NPHV (OEL TWA)	25 mg/m <sup>3</sup>
	10 ppm
NPHV (OEL STEL)	50 mg/m <sup>3</sup>
	20 ppm
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (122/2024 Z. z.)

# British Pharmacopoeia Reagent - Crystal Violet Solution

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

acetic acid (64-19-7)	
<b>Spain - Occupational Exposure Limits</b>	
Local name	Ácido acético
VLA-ED (OEL TWA)	25 mg/m <sup>3</sup>
	10 ppm
VLA-EC (OEL STEL)	50 mg/m <sup>3</sup>
	20 ppm
Remark	VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2024. INSHT
<b>Sweden - Occupational Exposure Limits</b>	
Local name	Ättiksyra
NGV (OEL TWA)	13 mg/m <sup>3</sup>
	5 ppm
KGV (OEL STEL)	25 mg/m <sup>3</sup>
	10 ppm
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
<b>United Kingdom - Occupational Exposure Limits</b>	
Local name	Acetic acid
WEL TWA (OEL TWA)	25 mg/m <sup>3</sup>
	10 ppm
WEL STEL (OEL STEL)	50 mg/m <sup>3</sup>
	20 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
<b>Iceland - Occupational Exposure Limits</b>	
Local name	Ediksýra
OEL TWA	25 mg/m <sup>3</sup>
	10 ppm
OEL STEL	50 mg/m <sup>3</sup>
	20 ppm
Regulatory reference	Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 1069/2018)
<b>Norway - Occupational Exposure Limits</b>	
Local name	Eddiksyre
Grenseverdi (OEL TWA)	25 mg/m <sup>3</sup>
	10 ppm
Korttidsverdi (OEL STEL)	50 mg/m <sup>3</sup>
	20 ppm
Remark	A: Kjemikalier som skal betraktes som at de fremkaller allergi eller annen overfølsomhet i øynene eller luftveier, eller som skal betraktes som at de fremkaller allergi ved hudkontakt; E: EU har en veiledende grenseverdi og/eller anmerkning for stoffet.
Regulatory reference	FOR-2024-04-05-581

# British Pharmacopoeia Reagent - Crystal Violet Solution

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

acetic acid (64-19-7)	
<b>North Macedonia - Occupational Exposure Limits</b>	
Local name	Оцетна киселина
OEL TWA	25 mg/m <sup>3</sup>
	10 ppm
Remark	(EU) European Union – гранична вредност, определена на ниво на Европската унија
Regulatory reference	Правилник за минималните барања за безбедност и здравје при работа на вработени од ризици поврзани со изложување на хемиски супстанции („Службен весник на Република Македонија“ бр.46/10)
<b>Switzerland - Occupational Exposure Limits</b>	
Local name	Acide acétique / Essigsäure
MAK (OEL TWA)	25 mg/m <sup>3</sup>
	10 ppm
KZGW (OEL STEL)	50 mg/m <sup>3</sup>
	20 ppm
Notation	SS <sub>c</sub> / SS <sub>c</sub>
Remark	NIOSH, OSHA
Regulatory reference	www.suva.ch, 01.01.2024
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Acetic acid
ACGIH OEL TWA	10 ppm
ACGIH OEL STEL	15 ppm
Remark (ACGIH)	TLV® Basis: URT & eye irr; pulm func
Regulatory reference	ACGIH 2024

## 8.2. Exposure controls

### Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

### Personal protection equipment

#### Personal protective equipment:

Avoid all unnecessary exposure. Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the protective equipment.

#### Personal protective equipment symbol(s):



### Eye and face protection

#### Eye protection:

Safety glasses

### Skin protection

#### Skin and body protection:

Wear suitable protective clothing

# British Pharmacopoeia Reagent - Crystal Violet Solution

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### Hand protection:

Protective gloves

### Respiratory protection

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

### Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Not available
Odour	: Irritating. Pungent. vinegar odour.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: 117.9 °C 101,325 kPa
Flammability	: Flammable liquid and vapour.
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: 39 °C 101,3 kPa
Auto-ignition temperature	: 485 °C
Decomposition temperature	: Not available
pH	: < 2
Viscosity, kinematic	: Not available
Viscosity, dynamic	: 1056 mPa·s
Solubility	: Soluble in water. Soluble in ethanol. Soluble in ether. Soluble in acetone. Soluble in tetrachloromethane. Soluble in glycerol. Soluble in dimethyl sulfoxide.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: 20.79 hPa 25 °C
Vapour pressure at 50°C	: 75 hPa
Density	: Not available
Relative density	: 1
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

### 9.2. Other information

#### Information with regard to physical hazard classes

Explosion limits	: 4 – 19 vol % 100 – 430 g/m <sup>3</sup>
------------------	--

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Flammable liquid and vapour.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

# British Pharmacopoeia Reagent - Crystal Violet Solution

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

#### C.I. Basic Violet 3; 4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (548-62-9)

LD50 oral rat	420 mg/kg
---------------	-----------

#### acetic acid (64-19-7)

LD50 oral rat	3310 mg/kg bodyweight
---------------	-----------------------

Skin corrosion/irritation : Causes severe skin burns.  
pH: < 2

#### C.I. Basic Violet 3; 4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (548-62-9)

pH	5 (1 %)
----	---------

#### acetic acid (64-19-7)

pH	2.4
----	-----

Serious eye damage/irritation : Causes serious eye damage.  
pH: < 2

#### C.I. Basic Violet 3; 4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (548-62-9)

pH	5 (1 %)
----	---------

#### acetic acid (64-19-7)

pH	2.4
----	-----

Respiratory or skin sensitisation : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified

#### C.I. Basic Violet 3; 4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (548-62-9)

NOAEL (chronic, oral, animal/male, 2 years)	225 mg/kg bodyweight mouse
---	----------------------------

NOAEL (chronic, oral, animal/female, 2 years)	100 mg/kg bodyweight mouse
---	----------------------------

Reproductive toxicity : Not classified  
STOT-single exposure : Not classified  
STOT-repeated exposure : Not classified

#### acetic acid (64-19-7)

NOAEL (oral, rat, 90 days)	290 mg/kg bodyweight
----------------------------	----------------------

Aspiration hazard : Not classified

# British Pharmacopoeia Reagent - Crystal Violet Solution

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### C.I. Basic Violet 3; 4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (548-62-9)

Viscosity, kinematic	Not applicable
----------------------	----------------

### acetic acid (64-19-7)

Viscosity, kinematic	1015.385 mm <sup>2</sup> /s
----------------------	-----------------------------

## 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.  
Hazardous to the aquatic environment, short-term (acute) : Not classified  
Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

### C.I. Basic Violet 3; 4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (548-62-9)

LC50 - Fish [1]	0.082 mg/l Pimephales promelas (Fathead minnow)
-----------------	---

EC50 - Crustacea [1]	0.24 – 0.5 mg/l Daphnia magna (Water flea)
----------------------	--

EC50 72h - Algae [1]	0.21 mg/l Pseudokirchneriella subcapitata
----------------------	---

### acetic acid (64-19-7)

LC50 - Fish [1]	> 1000 mg/l Oncorhynchus mykiss (Rainbow trout)
-----------------	---

EC50 - Crustacea [1]	> 1000 mg/l Daphnia magna (Water flea)
----------------------	--

EC50 72h - Algae [1]	> 1000 mg/l Skeletonema costatum (marine diatom)
----------------------	--

## 12.2. Persistence and degradability

### British Pharmacopoeia Reagent - Crystal Violet Solution

Persistence and degradability	Rapidly degradable
-------------------------------	--------------------

### C.I. Basic Violet 3; 4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (548-62-9)

Persistence and degradability	Rapidly degradable
-------------------------------	--------------------

### acetic acid (64-19-7)

Persistence and degradability	Readily biodegradable in water, Biodegradable in soil, Very mobile in soil.
-------------------------------	---

Biochemical oxygen demand (BOD)	0.6 – 0.74 g O <sub>2</sub> /g substance
---------------------------------	--

Chemical oxygen demand (COD)	1.03 g O <sub>2</sub> /g substance
------------------------------	------------------------------------

ThOD	1.07 g O <sub>2</sub> /g substance
------	------------------------------------

## 12.3. Bioaccumulative potential

### C.I. Basic Violet 3; 4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (548-62-9)

Partition coefficient n-octanol/water (Log Pow)	0.51
---	------

Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4).
---------------------------	--

# British Pharmacopoeia Reagent - Crystal Violet Solution

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

acetic acid (64-19-7)	
Partition coefficient n-octanol/water (Log Pow)	-0.17 (25 °C)
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4).

### 12.4. Mobility in soil

acetic acid (64-19-7)	
Surface tension	0.028 N/m (20 °C)
Ecology - soil	May be harmful to plant growth, blooming and fruit formation.

### 12.5. Results of PBT and vPvB assessment

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	C.I. Basic Violet 3; 4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (548-62-9), acetic acid (64-19-7)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	C.I. Basic Violet 3; 4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (548-62-9), acetic acid (64-19-7)

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Disposal must be done according to official regulations.
Additional information	: Flammable vapours may accumulate in the container. Do not re-use empty containers.

## SECTION 14: Transport information






In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number or ID number</b>				
UN 2789	UN 2789	UN 2789	UN 2789	UN 2789
<b>14.2. UN proper shipping name</b>				
ACETIC ACID SOLUTION	ACETIC ACID SOLUTION	Acetic acid solution	ACETIC ACID SOLUTION	ACETIC ACID SOLUTION
<b>Transport document description</b>				
UN 2789 ACETIC ACID SOLUTION, 8 (3), II, (D/E)	UN 2789 ACETIC ACID SOLUTION, 8 (3), II	UN 2789 Acetic acid solution, 8 (3), II	UN 2789 ACETIC ACID SOLUTION, 8 (3), II	UN 2789 ACETIC ACID SOLUTION, 8 (3), II
<b>14.3. Transport hazard class(es)</b>				
8 (3)	8 (3)	8 (3)	8 (3)	8 (3)

# British Pharmacopoeia Reagent - Crystal Violet Solution


## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

ADR	IMDG	IATA	ADN	RID
				
<b>14.4. Packing group</b>				
II	II	II	II	II
<b>14.5. Environmental hazards</b>				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No EmS-No. (Fire): F-E EmS-No. (Spillage): S-C	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available				

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR)	: CF1
Limited quantities (ADR)	: 1I
Excepted quantities (ADR)	: E2
Packing instructions (ADR)	: P001, IBC02
Mixed packing provisions (ADR)	: MP15
Portable tank and bulk container instructions (ADR)	: T7
Portable tank and bulk container special provisions (ADR)	: TP2
Tank code (ADR)	: L4BN
Vehicle for tank carriage	: FL
Transport category (ADR)	: 2
Special provisions for carriage - Operation (ADR)	: S2
Hazard identification number (Kemler No.)	: 83
Orange plates	: 
Tunnel restriction code (ADR)	: D/E
EAC code	: •2P
APP code	: A(fl)

#### Transport by sea

Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP2
Stowage category (IMDG)	: A
Properties and observations (IMDG)	: Colourless flammable liquid with a pungent odour. When pure, crystallizes below 16°C. Flashpoint: 40°C c.c. (pure product) 60°C c.c. (80% solution). Explosive limits: 4% to 17%. Miscible with water. Corrosive to lead and most other metals. Corrosive to skin, eyes and mucous membranes.

#### Air transport

PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y840
PCA limited quantity max net quantity (IATA)	: 0.5L
PCA packing instructions (IATA)	: 851
PCA max net quantity (IATA)	: 1L
CAO packing instructions (IATA)	: 855
CAO max net quantity (IATA)	: 30L

# British Pharmacopoeia Reagent - Crystal Violet Solution

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

ERG code (IATA) : 8F

### Inland waterway transport

Classification code (ADN) : CF1  
Limited quantities (ADN) : 1 L  
Excepted quantities (ADN) : E2  
Carriage permitted (ADN) : T  
Equipment required (ADN) : PP, EP, EX, A  
Ventilation (ADN) : VE01  
Number of blue cones/lights (ADN) : 1

### Rail transport

Classification code (RID) : CF1  
Limited quantities (RID) : 1L  
Excepted quantities (RID) : E2  
Packing instructions (RID) : P001, IBC02  
Mixed packing provisions (RID) : MP15  
Portable tank and bulk container instructions (RID) : T7  
Portable tank and bulk container special provisions (RID) : TP2  
Tank codes for RID tanks (RID) : L4BN  
Transport category (RID) : 2  
Colis express (express parcels) (RID) : CE6  
Hazard identification number (RID) : 83

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

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

#### EU-Regulations

#### REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(a)	British Pharmacopoeia Reagent - Crystal Violet Solution ; acetic acid	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F
3(b)	British Pharmacopoeia Reagent - Crystal Violet Solution ; acetic acid	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10
3(c)	British Pharmacopoeia Reagent - Crystal Violet Solution	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1
40.	British Pharmacopoeia Reagent - Crystal Violet Solution ; acetic acid	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.

#### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

# British Pharmacopoeia Reagent - Crystal Violet Solution

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

---

### REACH Candidate List (SVHC)

Contains substance(s) listed on the REACH Candidate List in concentrations  $\geq 0.1\%$  or SCL: [4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) (EC 208-953-6, CAS 548-62-9)

### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

### Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

### National regulations

#### Germany

VOC ordinance (ChemVOCFarbV) :

Water hazard class (WGK) :

WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1).

Hazardous Incident Ordinance (12. BImSchV) :

Is not subject to the Hazardous Incident Ordinance (12. BImSchV)

#### Netherlands

ABM category :

Z(2) - biodegradable substances with hazardous properties for humans and the environment (carcinogenicity/ mutagenicity/reprotoxicity/bioaccumulative potential or toxicity)

SZW-lijst van kankerverwekkende stoffen :

C.I. Basic Violet 3; 4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride is listed

SZW-lijst van mutagene stoffen :

None of the components are listed

SZW-lijst van reprotoxische stoffen – Borstvoeding :

None of the components are listed

SZW-lijst van reprotoxische stoffen –

None of the components are listed

Vruchtbaarheid

SZW-lijst van reprotoxische stoffen – Ontwikkeling :

None of the components are listed

#### Denmark

Class for fire hazard :

Class II-1

Store unit :

5 liter

Classification remarks :

R10 <H226;H314;H412>; Emergency management guidelines for the storage of flammable liquids must be followed

Danish National Regulations :

Young people below the age of 18 years are not allowed to use the product  
The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

# British Pharmacopoeia Reagent - Crystal Violet Solution

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### Poland

#### Polish National Regulations

: Act of 25 February 2011 on chemical substances and their mixtures (J. o L. No. 63, item 322 as amended; consolidated text J. o L. 2019, item 1225).  
Act of 14 December 2012 on waste (J. o L. 2013, item 322 as amended; consolidated text J. o L. 2020, item 797).  
The announcement of Marshal of the Sejm of the Republic of Poland dated 19 October 2016 concerning the consolidated text announcement of the decree on the management of packaging and packaging waste (J. o L. 2016, item 1863 as amended).  
Decree of the Minister of Environment of 14 December 2014 on the catalogue of waste (J. o L. 2014, item 1923).  
Act of 19 August 2011 on the Carriage of Dangerous Goods (J. o L. 2011 No. 227, item 1367 as amended; consolidated text J. o L. 2020, item 154).  
Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on the highest permissible concentration and intensity of noxious agents for health at work environment (J. o L. item 1286 as amended).  
The announcement of Minister of Health dated 9 September 2016 concerning the consolidated text announcement of the decree of the Minister of Health of 30 December 2004 on health and safety at work related to exposure to chemical agents at work (J. o L. of 16 September 2016, item 1488)  
Regulation of the Minister of Health of 2 February 2011 on tests and measurements of the noxious agents for health at work environment (J. o L. No. 33, item 166 as amended).  
Regulation of the Minister of Environment of 9 December 2003 on particularly hazardous substances to the environment (J. o L. No. 217, item 2141).  
ADR Agreement: Government Statement of 13 March 2023 on the entry into force of amendments to Annexes A and B to the Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), signed in Geneva on 30 September 1957 (J. o. L. 2023, item 891)

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Indication of changes		
Section	Changed item	Comments
	Number of blue cones/lights (ADN)	<b>Added</b>
	Ventilation (ADN)	<b>Added</b>
	Equipment required (ADN)	<b>Added</b>
	Carriage permitted (ADN)	<b>Added</b>
	Excepted quantities (ADN)	<b>Added</b>
	Limited quantities (ADN)	<b>Added</b>
	Danger labels (ADN)	<b>Added</b>
	Classification code (ADN)	<b>Added</b>
	Proper Shipping Name (RID)	<b>Added</b>
	Hazard identification number (RID)	<b>Added</b>
	Colis express (express parcels) (RID)	<b>Added</b>
	Transport category (RID)	<b>Added</b>
	Tank codes for RID tanks (RID)	<b>Added</b>
	Portable tank and bulk container special provisions (RID)	<b>Added</b>

# British Pharmacopoeia Reagent - Crystal Violet Solution

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Indication of changes		
Section	Changed item	Comments
	Portable tank and bulk container instructions (RID)	<b>Added</b>
	Mixed packing provisions (RID)	<b>Added</b>
	Packing instructions (RID)	<b>Added</b>
	Excepted quantities (RID)	<b>Added</b>
	Limited quantities (RID)	<b>Added</b>
	Packing group (RID)	<b>Added</b>
	Classification code (RID)	<b>Added</b>
	ERG code (IATA)	<b>Added</b>
	CAO max net quantity (IATA)	<b>Added</b>
	CAO packing instructions (IATA)	<b>Added</b>
	PCA max net quantity (IATA)	<b>Added</b>
	PCA packing instructions (IATA)	<b>Added</b>
	PCA limited quantity max net quantity (IATA)	<b>Added</b>
	PCA Limited quantities (IATA)	<b>Added</b>
	PCA Excepted quantities (IATA)	<b>Added</b>
	Danger labels (IATA)	<b>Added</b>
	Proper Shipping Name (IATA)	<b>Added</b>
	Properties and observations (IMDG)	<b>Added</b>
	Proper Shipping Name (IMDG)	<b>Added</b>
	Danger labels (IMDG)	<b>Added</b>
	EmS-No. (Spillage)	<b>Added</b>
	EmS-No. (Fire)	<b>Added</b>
	Stowage category (IMDG)	<b>Added</b>
	Tank special provisions (IMDG)	<b>Added</b>
	Tank instructions (IMDG)	<b>Added</b>
	IBC packing instructions (IMDG)	<b>Added</b>
	Special provisions for carriage - Operation (ADR)	<b>Added</b>
	Tank code (ADR)	<b>Added</b>
	Portable tank and bulk container special provisions (ADR)	<b>Added</b>
	Portable tank and bulk container instructions (ADR)	<b>Added</b>
	Mixed packing provisions (ADR)	<b>Added</b>
	Packing instructions (ADR)	<b>Added</b>
	Revision date	<b>Modified</b>
1.1	Name	<b>Modified</b>
1.2	Main use category	<b>Modified</b>

# British Pharmacopoeia Reagent - Crystal Violet Solution

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Indication of changes		
Section	Changed item	Comments
1.2	Industrial/Professional use spec	Removed
1.2	Function or use category	Added
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified
2.1	Adverse physicochemical, human health and environmental effects	Added
2.2	Precautionary statements (CLP)	Modified
3	Composition/information on ingredients	Modified
4.1	First-aid measures for first aider	Added
4.1	First-aid measures after eye contact	Modified
4.1	First-aid measures after ingestion	Modified
4.1	First-aid measures after inhalation	Modified
4.1	First-aid measures after skin contact	Modified
4.1	First-aid measures general	Modified
4.2	Symptoms/effects after inhalation	Added
4.2	Symptoms/effects after eye contact	Added
4.2	Symptoms/effects after skin contact	Added
4.2	Symptoms/effects after ingestion	Added
4.2	Symptoms/effects	Removed
4.3	Other medical advice or treatment	Added
5.1	Suitable extinguishing media	Modified
5.2	Explosion hazard	Added
5.2	Hazardous decomposition products in case of fire	Added
5.2	Fire hazard	Added
5.3	Firefighting instructions	Modified
5.3	Protection during firefighting	Modified
5.3	EAC code	Modified
6.1	Emergency procedures	Modified
6.1	Protective equipment	Added
6.1	General measures	Added
6.1	Emergency procedures	Modified
6.1	Protective equipment	Modified
6.2	Environmental precautions	Modified
6.3	For containment	Added
6.3	Other information	Added
6.3	Methods for cleaning up	Modified
6.4	Reference to other sections (8, 13)	Modified
7.1	Additional hazards when processed	Added

# British Pharmacopoeia Reagent - Crystal Violet Solution

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Indication of changes		
Section	Changed item	Comments
7.1	Precautions for safe handling	Modified
7.1	Hygiene measures	Modified
7.2	Packaging materials	Added
7.2	Storage conditions	Modified
7.2	Incompatible materials	Removed
7.2	Incompatible products	Removed
7.2	Technical measures	Modified
8.2	Personal protective equipment	Modified
8.2	Appropriate engineering controls	Added
8.2	Environmental exposure controls	Added
8.2	Eye protection	Modified
8.2	Hand protection	Modified
8.2	Respiratory protection	Modified
8.2	Other information	Removed
9	Flammability	Modified
9	Viscosity, dynamic	Added
9	Vapour pressure	Added
9	Odour	Modified
9	Flash point	Modified
9	Boiling point	Added
9	Vapour pressure at 50°C	Added
9	Melting point	Added
9	Colour	Removed
9	Solubility	Added
9	Relative density	Added
9	Auto-ignition temperature	Added
9	pH	Added
9.1	Explosive limits (g/m <sup>3</sup> )	Added
9.1	Explosive limits (vol %)	Added
10.1	Reactivity	Modified
10.2	Chemical stability	Modified
10.3	Possibility of hazardous reactions	Modified
10.4	Conditions to avoid	Modified
10.5	Incompatible materials	Removed
10.6	Hazardous decomposition products	Modified
11.1	Potential adverse human health effects and symptoms	Removed
11.1	Additional information	Removed

# British Pharmacopoeia Reagent - Crystal Violet Solution

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Indication of changes		
Section	Changed item	Comments
11.1	Additional information	Removed
11.1	Additional information	Removed
11.1	Additional information	Removed
11.1	Additional information	Removed
11.1	Additional information	Removed
11.1	Additional information	Removed
11.1	Additional information	Removed
11.1	Additional information	Removed
11.1	Additional information	Removed
12.1	Ecology - general	Added
12.1	Ecology - water	Removed
12.2	Persistence and degradability	Removed
12.3	Bioaccumulative potential	Removed
12.7	Other information	Removed
13.1	Product/Packaging disposal recommendations	Modified
13.1	Sewage disposal recommendations	Added
13.1	Regional waste regulation	Added
13.1	Additional information	Added
13.1	Waste treatment methods	Added
13.1	Ecological waste information	Removed
14.1	UN-No. (ADN)	Added
14.2	Proper Shipping Name (ADN)	Added
14.2	Proper Shipping Name (ADR)	Modified
14.4	Packing group (ADN)	Added
14.4	Packing group (IATA)	Added
14.4	Packing group (IMDG)	Added
14.6	Packing instructions (IMDG)	Added
15.1	REACH Annex XVII	Modified
16	Abbreviations and acronyms	Added
16	Other information	Removed
16	Data sources	Removed

Abbreviations and acronyms:	
ACGIH	American Conference of Government Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor

# British Pharmacopoeia Reagent - Crystal Violet Solution

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Abbreviations and acronyms:	
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
COD	Chemical oxygen demand (COD)
CSA	Chemical safety assessment
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
ED	Endocrine disruptor
EN	European Standard
EWC	European waste catalogue
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
Log Kow	Partition coefficient n-octanol/water (Log Kow)
Log Pow	Partition coefficient n-octanol/water (Log Pow)
MAK	maximum workplace concentration
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
N.O.S.	Not Otherwise Specified
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
OSHA	Occupational Safety Health Administration
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
PPE	Personal protection equipment
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
TF	Technical function
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
TWA	Time Weighted Average

# British Pharmacopoeia Reagent - Crystal Violet Solution

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Abbreviations and acronyms:	
VOC	Volatile Organic Compounds
vPvB	Very Persistent and Very Bioaccumulative
UFI	Unique Formula Identifier

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Flam. Liq. 3	H226	On basis of test data
Skin Corr. 1	H314	On basis of test data
Eye Dam. 1	H318	On basis of test data
Aquatic Chronic 3	H412	Calculation method

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.