

Creation Date 05-Apr-2011

Revision Date 10-Dec-2021

Revision Number 6

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1. Product identifier**

Product Description: **Gram Crystal Violet**  
Cat No. : **R40052, R40053, R40073**

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

Recommended Use Laboratory chemicals.  
Uses advised against No Information available

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

Company Oxoid Ltd  
Wade Road  
Basingstoke, Hants, UK  
RG24 8PW  
Tel: +44 (0) 1256 841144

**EU entity/business name**

Oxoid Deutschland GmbH  
Postfach 10 07 53  
D-46483  
Wesel  
GERMANY  
Tel: + 49 (0) 281 1520  
Fax: 49 (0) 281 1521

E-mail address mbd-sds@thermofisher.com

**1.4. Emergency telephone number**

Chemtrec EU: 001-703-527-3887  
Chemtrec US: (800) 424-9300

For customers in Switzerland:  
Tox Info Suisse Emergency Number: **145 (24hr)**  
Tox Info Suisse: +41-44 251 51 51 (Emergency number from abroad)  
Chemtrec (24h) Toll-Free: 0800 564 402  
Chemtrec Local: +41-43 508 20 11 (Zurich)

**SECTION 2: HAZARDS IDENTIFICATION****2.1. Classification of the substance or mixture**

**CLP Classification - Regulation (EC) No 1272/2008**

**Physical hazards**

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Flammable liquids	Category 3
<b><u>Health hazards</u></b>	
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Germ Cell Mutagenicity	Category 2
Carcinogenicity	Category 1B (H350)
Specific target organ toxicity - (single exposure)	Category 2
<b><u>Environmental hazards</u></b>	
Chronic aquatic toxicity	Category 3 (H412)

Full text of Hazard Statements: see section 16

## 2.2. Label elements



Signal Word

**Danger**

### Hazard Statements

H226 - Flammable liquid and vapor  
H350 - May cause cancer  
H412 - Harmful to aquatic life with long lasting effects  
H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H341 - Suspected of causing genetic defects  
H371 - May cause damage to organs

### Precautionary Statements

P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P308 + P313 - IF exposed or concerned: Get medical advice/attention  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower  
P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction  
P332 + P313 - If skin irritation occurs: Get medical advice/attention  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P308 + P313 - IF exposed or concerned: Get medical advice/attention

### Additional EU labelling

Restricted to professional users

## 2.3. Other hazards

No information available

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

Component	CAS No	EC No	Weight %	CLP Classification - Regulation (EC) No 1272/2008
Ethyl alcohol	64-17-5	200-578-6	14	Flam. Liq. 2 (H225)
Methanol	67-56-1	200-659-6	<1.0	Flam. Liq. 2 (H225) Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) STOT SE 1 (H370)
Phenol	108-95-2	EEC No. 203-632-7	<1.0	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) Skin Corr. 1B (H314) Eye Dam. 1 (H318) Muta. 2 (H341) STOT RE 2 (H373)
Isopropyl alcohol	67-63-0	200-661-7	<1.0	Flam. Liq. 2 (H225) Eye Irrit. 2 (H319) STOT SE 3 (H336)
C.I. Basic Violet 3	548-62-9	EEC No. 208-953-6	<1.0	Acute Tox. 4 (H302) Eye Dam. 1 (H318) Carc. 1B (H350) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)

Component	Specific concentration limits (SCL's)	M-Factor	Component notes
Methanol	STOT SE 1 (H370) :: C>=10% STOT SE 2 (H371) :: 3%<=C<10%	-	-
Phenol	Eye Irrit. 2 (H319) :: 1%<=C<3% Skin Corr. 1B (H314) :: C>=3% Skin Irrit. 2 (H315) :: 1%<=C<3%	-	-
C.I. Basic Violet 3	-	1	-

Full text of Hazard Statements: see section 16

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

<b>General Advice</b>	If symptoms persist, call a physician.
<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
<b>Skin Contact</b>	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.
<b>Ingestion</b>	Clean mouth with water and drink afterwards plenty of water.
<b>Inhalation</b>	Remove to fresh air. Get medical attention if symptoms occur. If not breathing, give artificial respiration.
<b>Self-Protection of the First Aider</b>	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

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

None reasonably foreseeable. . Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

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

Notes to Physician

Treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

#### **Suitable Extinguishing Media**

Water spray, carbon dioxide (CO<sub>2</sub>), dry chemical, alcohol-resistant foam. Water mist may be used to cool closed containers.

#### **Extinguishing media which must not be used for safety reasons**

Do not use a solid water stream as it may scatter and spread fire.

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

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

#### **Hazardous Combustion Products**

None under normal use conditions.

### 5.3. Advice for firefighters

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

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

Ensure adequate ventilation. Use personal protective equipment as required. Remove all sources of ignition. Take precautionary measures against static discharges.

### 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

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

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

### 6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

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Ensure adequate ventilation. Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Take precautionary measures against static discharges.

## Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

## 7.2. 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.

Technical Rules for Hazardous Substances (TRGS) 510 Class 3  
Storage Class (LGK) (Germany)

## 7.3. Specific end use(s)

Use in laboratories

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### Exposure limits

List source(s): **EU** - Commission Directive (EU) 2019/1831 of 24 October 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC **UK** - EH40/2005 Work Exposure Limits, Third edition. Published 2018. **IRE** - 2010 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001. Published by the Health and Safety Authority. **CH** - The Government of Switzerland has set a directive on limit values for working materials (Grenzwerte am arbeitsplatz) which is based on the Swiss Federal Regulation "Verordnung über die Verhütung von Unfällen und Berufskrankheiten". This directive is administered, periodically revised and enforced by SUVA (Swiss National Accident Insurance Fund).

Component	European Union	The United Kingdom	France	Belgium	Spain
Ethyl alcohol		TWA: 1000 ppm TWA; 1920 mg/m <sup>3</sup> TWA WEL - STEL: 3000 ppm STEL: 5760 mg/m <sup>3</sup> STEL	TWA / VME: 1000 ppm (8 heures). TWA / VME: 1900 mg/m <sup>3</sup> (8 heures). STEL / VLCT: 5000 ppm. STEL / VLCT: 9500 mg/m <sup>3</sup> .	TWA: 1000 ppm 8 uren TWA: 1907 mg/m <sup>3</sup> 8 uren	STEL / VLA-EC: 1000 ppm (15 minutos). STEL / VLA-EC: 1910 mg/m <sup>3</sup> (15 minutos).
Methanol	TWA: 200 ppm 8 hr TWA: 260 mg/m <sup>3</sup> 8 hr Skin	WEL - TWA: 200 ppm TWA: 266 mg/m <sup>3</sup> TWA WEL - STEL: 250 ppm STEL: 333 mg/m <sup>3</sup> STEL	TWA / VME: 200 ppm (8 heures). restrictive limit TWA / VME: 260 mg/m <sup>3</sup> (8 heures). restrictive limit STEL / VLCT: 1000 ppm. STEL / VLCT: 1300 mg/m <sup>3</sup> . Peau	TWA: 200 ppm 8 uren TWA: 266 mg/m <sup>3</sup> 8 uren STEL: 250 ppm 15 minuten STEL: 333 mg/m <sup>3</sup> 15 minuten Huid	TWA / VLA-ED: 200 ppm (8 horas) TWA / VLA-ED: 266 mg/m <sup>3</sup> (8 horas) Piel
Phenol	TWA: 2 ppm (8h) TWA: 8 mg/m <sup>3</sup> (8h) STEL: 4 ppm (15min) STEL: 16 mg/m <sup>3</sup> (15min) Skin	STEL: 4 ppm 15 min STEL: 16 mg/m <sup>3</sup> 15 min TWA: 2 ppm 8 hr TWA: 7.8 mg/m <sup>3</sup> 8 hr Skin	TWA / VME: 2 ppm (8 heures). restrictive limit TWA / VME: 7.8 mg/m <sup>3</sup> (8 heures). restrictive limit STEL / VLCT: 4 ppm. restrictive limit STEL / VLCT: 15.6 mg/m <sup>3</sup> . restrictive limit Peau	TWA: 2 ppm 8 uren TWA: 8 mg/m <sup>3</sup> 8 uren STEL: 4 ppm 15 minuten STEL: 16 mg/m <sup>3</sup> 15 minuten Huid	STEL / VLA-EC: 4 ppm (15 minutos). STEL / VLA-EC: 16 mg/m <sup>3</sup> (15 minutos). TWA / VLA-ED: 2 ppm (8 horas) TWA / VLA-ED: 8 mg/m <sup>3</sup> (8 horas) Piel
Isopropyl alcohol		STEL: 500 ppm 15 min STEL: 1250 mg/m <sup>3</sup> 15	STEL / VLCT: 400 ppm. STEL / VLCT: 980	TWA: 200 ppm 8 uren TWA: 500 mg/m <sup>3</sup> 8 uren	STEL / VLA-EC: 400 ppm (15 minutos).

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		min TWA: 400 ppm 8 hr TWA: 999 mg/m <sup>3</sup> 8 hr	mg/m <sup>3</sup> .	STEL: 400 ppm 15 minuten STEL: 1000 mg/m <sup>3</sup> 15 minuten	STEL / VLA-EC: 1000 mg/m <sup>3</sup> (15 minutos). TWA / VLA-ED: 200 ppm (8 horas) TWA / VLA-ED: 500 mg/m <sup>3</sup> (8 horas)
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Component	Italy	Germany	Portugal	The Netherlands	Finland
Ethyl alcohol		200 ppm TWA MAK; 380 mg/m <sup>3</sup> TWA MAK	TWA: 1000 ppm 8 horas	huid STEL: 1900 mg/m <sup>3</sup> 15 minuten TWA: 260 mg/m <sup>3</sup> 8 uren	TWA: 1000 ppm 8 tunteina TWA: 1900 mg/m <sup>3</sup> 8 tunteina STEL: 1300 ppm 15 minuutteina STEL: 2500 mg/m <sup>3</sup> 15 minuutteina
Methanol	TWA: 200 ppm 8 ore. Media Ponderata nel Tempo TWA: 260 mg/m <sup>3</sup> 8 ore. Media Ponderata nel Tempo Pelle	100 ppm TWA MAK; 130 mg/m <sup>3</sup> TWA MAKSkin absorber	STEL: 250 ppm 15 minutos TWA: 200 ppm 8 horas TWA: 260 mg/m <sup>3</sup> 8 horas Pele	huid TWA: 133 mg/m <sup>3</sup> 8 uren	TWA: 200 ppm 8 tunteina TWA: 270 mg/m <sup>3</sup> 8 tunteina STEL: 250 ppm 15 minuutteina STEL: 330 mg/m <sup>3</sup> 15 minuutteina Iho
Phenol	TWA: 2 ppm 8 ore. Media Ponderata nel Tempo TWA: 8.0 mg/m <sup>3</sup> 8 ore. Media Ponderata nel Tempo STEL: 4 ppm 15 minuti. Breve termine STEL: 16 mg/m <sup>3</sup> 15 minuti. Breve termine Pelle	TWA: 2 ppm (8 Stunden). AGW - exposure factor 2 TWA: 8 mg/m <sup>3</sup> (8 Stunden). AGW - exposure factor 2 Haut	STEL: 4 ppm 15 minutos STEL: 16 mg/m <sup>3</sup> 15 minutos TWA: 2 ppm 8 horas TWA: 8 mg/m <sup>3</sup> 8 horas Pele	huid TWA: 8 mg/m <sup>3</sup> 8 uren	TWA: 2 ppm 8 tunteina TWA: 8 mg/m <sup>3</sup> 8 tunteina STEL: 4 ppm 15 minuutteina STEL: 16 mg/m <sup>3</sup> 15 minuutteina Iho
Isopropyl alcohol		TWA: 200 ppm (8 Stunden). AGW - exposure factor 2 TWA: 500 mg/m <sup>3</sup> (8 Stunden). AGW - exposure factor 2 TWA: 200 ppm (8 Stunden). MAK TWA: 500 mg/m <sup>3</sup> (8 Stunden). MAK Höhepunkt: 400 ppm Höhepunkt: 1000 mg/m <sup>3</sup>	STEL: 400 ppm 15 minutos TWA: 200 ppm 8 horas		TWA: 200 ppm 8 tunteina TWA: 500 mg/m <sup>3</sup> 8 tunteina STEL: 250 ppm 15 minuutteina STEL: 620 mg/m <sup>3</sup> 15 minuutteina

Component	Austria	Denmark	Switzerland	Poland	Norway
Ethyl alcohol	MAK-KZGW: 2000 ppm 15 Minuten MAK-KZGW: 3800 mg/m <sup>3</sup> 15 Minuten MAK-TMW: 1000 ppm 8 Stunden MAK-TMW: 1900 mg/m <sup>3</sup> 8 Stunden	TWA: 1000 ppm 8 timer TWA: 1900 mg/m <sup>3</sup> 8 timer	STEL: 1000 ppm 15 Minuten STEL: 1920 mg/m <sup>3</sup> 15 Minuten TWA: 500 ppm 8 Stunden TWA: 960 mg/m <sup>3</sup> 8 Stunden	TWA: 1900 mg/m <sup>3</sup> 8 godzinach	TWA: 500 ppm 8 timer TWA: 950 mg/m <sup>3</sup> 8 timer STEL: 625 ppm 15 minutter. value calculated STEL: 1187.5 mg/m <sup>3</sup> 15 minutter. value calculated
Methanol	Haut MAK-KZGW: 800 ppm 15 Minuten MAK-KZGW: 1040 mg/m <sup>3</sup> 15 Minuten MAK-TMW: 200 ppm 8 Stunden MAK-TMW: 260 mg/m <sup>3</sup> 8 Stunden	TWA: 200 ppm 8 timer TWA: 260 mg/m <sup>3</sup> 8 timer Hud	Haut/Peau STEL: 400 ppm 15 Minuten STEL: 520 mg/m <sup>3</sup> 15 Minuten TWA: 200 ppm 8 Stunden TWA: 260 mg/m <sup>3</sup> 8 Stunden	STEL: 300 mg/m <sup>3</sup> 15 minutach TWA: 100 mg/m <sup>3</sup> 8 godzinach	TWA: 100 ppm 8 timer TWA: 130 mg/m <sup>3</sup> 8 timer STEL: 150 ppm 15 minutter. value calculated STEL: 162.5 mg/m <sup>3</sup> 15 minutter. value calculated Hud
Phenol	Haut MAK-KZGW: 4 ppm 15	TWA: 1 ppm 8 timer TWA: 4 mg/m <sup>3</sup> 8 timer	Haut/Peau STEL: 5 ppm 15	STEL: 16 mg/m <sup>3</sup> 15 minutach	TWA: 1 ppm 8 timer TWA: 4 mg/m <sup>3</sup> 8 timer

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	Minuten MAK-KZGW: 16 mg/m <sup>3</sup> 15 Minuten MAK-TMW: 2 ppm 8 Stunden MAK-TMW: 8 mg/m <sup>3</sup> 8 Stunden	Hud	Minuten STEL: 19 mg/m <sup>3</sup> 15 Minuten TWA: 5 ppm 8 Stunden TWA: 19 mg/m <sup>3</sup> 8 Stunden	TWA: 7.8 mg/m <sup>3</sup> 8 godzinach	STEL: 3 ppm 15 minutter. value from the regulation STEL: 12 mg/m <sup>3</sup> 15 minutter. value from the regulation Hud
Isopropyl alcohol	MAK-KZGW: 800 ppm 15 Minuten MAK-KZGW: 2000 mg/m <sup>3</sup> 15 Minuten MAK-TMW: 200 ppm 8 Stunden MAK-TMW: 500 mg/m <sup>3</sup> 8 Stunden	TWA: 200 ppm 8 timer TWA: 490 mg/m <sup>3</sup> 8 timer	STEL: 400 ppm 15 Minuten STEL: 1000 mg/m <sup>3</sup> 15 Minuten TWA: 200 ppm 8 Stunden TWA: 500 mg/m <sup>3</sup> 8 Stunden	STEL: 1200 mg/m <sup>3</sup> 15 minutach TWA: 900 mg/m <sup>3</sup> 8 godzinach	TWA: 100 ppm 8 timer TWA: 245 mg/m <sup>3</sup> 8 timer STEL: 150 ppm 15 minutter. value calculated STEL: 306.25 mg/m <sup>3</sup> 15 minutter. value calculated

Component	Bulgaria	Croatia	Ireland	Cyprus	Czech Republic
Ethyl alcohol	TWA: 1000 mg/m <sup>3</sup>	TWA-GVI: 1000 ppm 8 satima. TWA-GVI: 1900 mg/m <sup>3</sup> 8 satima.	STEL: 1000 ppm 15 min		TWA: 1000 mg/m <sup>3</sup> 8 hodinách. Ceiling: 3000 mg/m <sup>3</sup>
Methanol	TWA: 200 ppm TWA: 260.0 mg/m <sup>3</sup> Skin notation	kože TWA-GVI: 200 ppm 8 satima. TWA-GVI: 260 mg/m <sup>3</sup> 8 satima.	TWA: 200 ppm 8 hr. TWA: 260 mg/m <sup>3</sup> 8 hr. STEL: 600 ppm 15 min STEL: 780 mg/m <sup>3</sup> 15 min Skin	Skin-potential for cutaneous absorption TWA: 200 ppm TWA: 260 mg/m <sup>3</sup>	TWA: 250 mg/m <sup>3</sup> 8 hodinách. Potential for cutaneous absorption Ceiling: 1000 mg/m <sup>3</sup>
Phenol	TWA: 2 ppm TWA: 8 mg/m <sup>3</sup> STEL : 4 ppm STEL : 16 mg/m <sup>3</sup> Skin notation	kože TWA-GVI: 2 ppm 8 satima. TWA-GVI: 8 mg/m <sup>3</sup> 8 satima. STEL-KGVI: 4 ppm 15 minutama. STEL-KGVI: 16 mg/m <sup>3</sup> 15 minutama.	TWA: 2 ppm 8 hr. TWA: 8 mg/m <sup>3</sup> 8 hr. STEL: 4 ppm 15 min STEL: 16 mg/m <sup>3</sup> 15 min Skin	Skin-potential for cutaneous absorption STEL: 16 mg/m <sup>3</sup> STEL: 4 ppm TWA: 8 mg/m <sup>3</sup> TWA: 2 ppm	TWA: 7.5 mg/m <sup>3</sup> 8 hodinách. Potential for cutaneous absorption Ceiling: 15 mg/m <sup>3</sup>
Isopropyl alcohol	TWA: 980.0 mg/m <sup>3</sup> STEL : 1225.0 mg/m <sup>3</sup>	TWA-GVI: 400 ppm 8 satima. TWA-GVI: 999 mg/m <sup>3</sup> 8 satima. STEL-KGVI: 500 ppm 15 minutama. STEL-KGVI: 1250 mg/m <sup>3</sup> 15 minutama.	TWA: 200 ppm 8 hr. STEL: 400 ppm 15 min Skin		TWA: 500 mg/m <sup>3</sup> 8 hodinách. Potential for cutaneous absorption Ceiling: 1000 mg/m <sup>3</sup>

Component	Estonia	Gibraltar	Greece	Hungary	Iceland
Ethyl alcohol	TWA: 500 ppm 8 tundides. TWA: 1000 mg/m <sup>3</sup> 8 tundides. STEL: 1000 ppm 15 minutites. STEL: 1900 mg/m <sup>3</sup> 15 minutites.		TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>	STEL: 3800 mg/m <sup>3</sup> 15 percekben. CK TWA: 1900 mg/m <sup>3</sup> 8 órában. AK	TWA: 1000 ppm 8 klukkustundum. TWA: 1900 mg/m <sup>3</sup> 8 klukkustundum. Ceiling: 2000 ppm Ceiling: 3800 mg/m <sup>3</sup>
Methanol	Nahk TWA: 200 ppm 8 tundides. TWA: 250 mg/m <sup>3</sup> 8 tundides. STEL: 250 ppm 15 minutites. STEL: 350 mg/m <sup>3</sup> 15 minutites.	Skin notation TWA: 200 ppm 8 hr TWA: 260 mg/m <sup>3</sup> 8 hr	skin - potential for cutaneous absorption STEL: 250 ppm STEL: 325 mg/m <sup>3</sup> TWA: 200 ppm TWA: 260 mg/m <sup>3</sup>	TWA: 260 mg/m <sup>3</sup> 8 órában. AK lehetséges borön keresztüli felszívódás	TWA: 200 ppm 8 klukkustundum. TWA: 260 mg/m <sup>3</sup> 8 klukkustundum. Skin notation Ceiling: 400 ppm Ceiling: 520 mg/m <sup>3</sup>
Phenol	Nahk TWA: 2 ppm 8 tundides. TWA: 8 mg/m <sup>3</sup> 8 tundides. STEL: 16 mg/m <sup>3</sup> 15 minutites.	Skin notation TWA: 2 ppm 8 hr TWA: 8 mg/m <sup>3</sup> 8 hr STEL: 16 mg/m <sup>3</sup> 15 min STEL: 4 ppm 15 min	skin - potential for cutaneous absorption STEL: 4 ppm STEL: 16 mg/m <sup>3</sup> TWA: 2 ppm TWA: 8 mg/m <sup>3</sup>	STEL: 16 mg/m <sup>3</sup> 15 percekben. CK TWA: 8 mg/m <sup>3</sup> 8 órában. AK lehetséges borön keresztüli felszívódás	TWA: 1 ppm 8 klukkustundum. TWA: 4 mg/m <sup>3</sup> 8 klukkustundum. Skin notation Ceiling: 2 ppm

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	STEL: 4 ppm 15 minutes.				Ceiling: 8 mg/m <sup>3</sup>
Isopropyl alcohol	TWA: 150 ppm 8 tündides. TWA: 350 mg/m <sup>3</sup> 8 tündides. STEL: 250 ppm 15 minutes. STEL: 600 mg/m <sup>3</sup> 15 minutes.		STEL: 500 ppm STEL: 1225 mg/m <sup>3</sup> TWA: 400 ppm TWA: 980 mg/m <sup>3</sup>	STEL: 1000 mg/m <sup>3</sup> 15 percekben. CK TWA: 500 mg/m <sup>3</sup> 8 órában. AK lehetséges bőrön keresztüli felszívódás	TWA: 200 ppm 8 klukkustundum. TWA: 490 mg/m <sup>3</sup> 8 klukkustundum. Skin notation Ceiling: 400 ppm Ceiling: 980 mg/m <sup>3</sup>

Component	Latvia	Lithuania	Luxembourg	Malta	Romania
Ethyl alcohol	TWA: 1000 mg/m <sup>3</sup>	TWA: 500 ppm IPRD TWA: 1000 mg/m <sup>3</sup> IPRD STEL: 1000 ppm STEL: 1900 mg/m <sup>3</sup>			TWA: 1000 ppm 8 ore TWA: 1900 mg/m <sup>3</sup> 8 ore STEL: 5000 ppm 15 minute STEL: 9500 mg/m <sup>3</sup> 15 minute
Methanol	skin - potential for cutaneous exposure TWA: 200 ppm TWA: 260 mg/m <sup>3</sup>	TWA: 200 ppm IPRD TWA: 260 mg/m <sup>3</sup> IPRD Oda	Possibility of significant uptake through the skin TWA: 200 ppm 8 Stunden TWA: 260 mg/m <sup>3</sup> 8 Stunden	possibility of significant uptake through the skin TWA: 200 ppm TWA: 260 mg/m <sup>3</sup>	Skin notation TWA: 200 ppm 8 ore TWA: 260 mg/m <sup>3</sup> 8 ore
Phenol	skin - potential for cutaneous exposure STEL: 4 ppm STEL: 16 mg/m <sup>3</sup> TWA: 2 ppm TWA: 8 mg/m <sup>3</sup>	TWA: 2 ppm IPRD TWA: 8 mg/m <sup>3</sup> IPRD Oda STEL: 4 ppm STEL: 16 mg/m <sup>3</sup>	Possibility of significant uptake through the skin TWA: 2 ppm 8 Stunden TWA: 8 mg/m <sup>3</sup> 8 Stunden STEL: 16 mg/m <sup>3</sup> 15 Minuten STEL: 4 ppm 15 Minuten	possibility of significant uptake through the skin TWA: 2 ppm TWA: 8 mg/m <sup>3</sup> STEL: 16 mg/m <sup>3</sup> 15 minuti STEL: 4 ppm 15 minuti	Skin notation TWA: 2 ppm 8 ore TWA: 8 mg/m <sup>3</sup> 8 ore STEL: 4 ppm 15 minute STEL: 16 mg/m <sup>3</sup> 15 minute
Isopropyl alcohol	STEL: 600 mg/m <sup>3</sup> TWA: 350 mg/m <sup>3</sup>	TWA: 150 ppm IPRD TWA: 350 mg/m <sup>3</sup> IPRD STEL: 250 ppm STEL: 600 mg/m <sup>3</sup>			TWA: 81 ppm 8 ore TWA: 200 mg/m <sup>3</sup> 8 ore STEL: 203 ppm 15 minute STEL: 500 mg/m <sup>3</sup> 15 minute

Component	Russia	Slovak Republic	Slovenia	Sweden	Turkey
Ethyl alcohol	TWA: 1000 mg/m <sup>3</sup> 2391 MAC: 2000 mg/m <sup>3</sup>	Ceiling: 1920 mg/m <sup>3</sup> TWA: 500 ppm TWA: 960 mg/m <sup>3</sup>	TWA: 960 mg/m <sup>3</sup> 8 urah TWA: 500 ppm 8 urah STEL: 1000 ppm 15 minutah STEL: 1920 mg/m <sup>3</sup> 15 minutah	Indicative STEL: 1000 ppm 15 minuter Indicative STEL: 1900 mg/m <sup>3</sup> 15 minuter TLV: 500 ppm 8 timmar. NGV TLV: 1000 mg/m <sup>3</sup> 8 timmar. NGV	
Methanol	TWA: 5 mg/m <sup>3</sup> 1250 Skin notation MAC: 15 mg/m <sup>3</sup>	Potential for cutaneous absorption TWA: 200 ppm TWA: 260 mg/m <sup>3</sup>	TWA: 200 ppm 8 urah TWA: 260 mg/m <sup>3</sup> 8 urah Koža STEL: 800 ppm 15 minutah STEL: 1040 mg/m <sup>3</sup> 15 minutah	Indicative STEL: 250 ppm 15 minuter Indicative STEL: 350 mg/m <sup>3</sup> 15 minuter TLV: 200 ppm 8 timmar. NGV TLV: 250 mg/m <sup>3</sup> 8 timmar. NGV Hud	Deri TWA: 200 ppm 8 saat TWA: 260 mg/m <sup>3</sup> 8 saat
Phenol	TWA: 0.3 mg/m <sup>3</sup> 0539 Skin notation MAC: 1 mg/m <sup>3</sup>	Ceiling: 16 mg/m <sup>3</sup> Potential for cutaneous absorption TWA: 2 ppm TWA: 8 mg/m <sup>3</sup>	TWA: 2 ppm 8 urah TWA: 8 mg/m <sup>3</sup> 8 urah Koža STEL: 4 ppm 15 minutah STEL: 16 mg/m <sup>3</sup> 15 minutah	Binding STEL: 4 ppm 15 minuter Binding STEL: 16 mg/m <sup>3</sup> 15 minuter TLV: 1 ppm 8 timmar. NGV TLV: 4 mg/m <sup>3</sup> 8 timmar. NGV Hud	Deri TWA: 2 ppm 8 saat TWA: 8 mg/m <sup>3</sup> 8 saat STEL: 4 ppm 15 dakika STEL: 16 mg/m <sup>3</sup> 15 dakika
Isopropyl alcohol	TWA: 10 mg/m <sup>3</sup> 1761 MAC: 50 mg/m <sup>3</sup>	Ceiling: 1000 mg/m <sup>3</sup> TWA: 200 ppm	TWA: 200 ppm 8 urah TWA: 500 mg/m <sup>3</sup> 8 urah	Indicative STEL: 250 ppm 15 minuter	



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		TWA: 500 mg/m <sup>3</sup>	STEL: 400 ppm 15 min STEL: 1000 mg/m <sup>3</sup> 15 min	Indicative STEL: 600 mg/m <sup>3</sup> 15 min TLV: 150 ppm 8 timmar. NGV TLV: 350 mg/m <sup>3</sup> 8 timmar. NGV	
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## Biological limit values

List source(s):

Component	European Union	United Kingdom	France	Spain	Germany
Methanol			Methanol: 15 mg/L urine end of shift	Methanol: 15 mg/L urine end of shift	Methanol: 15 mg/L urine (end of shift ) Methanol: 15 mg/L urine (for long-term exposures: at the end of the shift after several shifts )
Phenol			Total Phenol: 250 mg/g creatinine urine end of shift	: 120 mg/g Creatinine urine end of shift	Phenol (after hydrolysis): 120 mg/g Creatinine urine (end of shift )
Isopropyl alcohol				Acetone: 40 mg/L urine end of workweek	Acetone: 25 mg/L whole blood (end of shift ) Acetone: 25 mg/L urine (end of shift )

Component	Italy	Finland	Denmark	Bulgaria	Romania
Methanol					Methanol: 6 mg/L urine end of shift
Phenol		Total phenol: 1.3 mmol/L urine after the shift.		Phenol: 200 µg/L urine at the end of exposure or end of work shift	total Phenol: 120 mg/g Creatinine urine end of shift
Isopropyl alcohol					Acetone: 50 mg/L urine end of shift

Component	Gibraltar	Latvia	Slovak Republic	Luxembourg	Turkey
Methanol			Methanol: 30 mg/L urine end of exposure or work shift Methanol: 30 mg/L urine after all work shifts for long-term exposure		
Phenol			Phenol: 200 mg/L urine end of exposure or work shift		

## Monitoring methods

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

MDHS70 General methods for sampling airborne gases and vapours

MDHS 88 Volatile organic compounds in air. Laboratory method using diffusive samplers, solvent desorption and gas chromatography

MDHS 96 Volatile organic compounds in air - Laboratory method using pumped solid sorbent tubes, solvent desorption and gas chromatography

## Derived No Effect Level (DNEL) / Derived Minimum Effect Level (DMEL)

See table for values

Component	Acute effects local (Dermal)	Acute effects systemic (Dermal)	Chronic effects local (Dermal)	Chronic effects systemic (Dermal)
Ethyl alcohol				DNEL = 343mg/kg

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64-17-5 ( 14 )				bw/day
Methanol 67-56-1 ( <1.0 )		DNEL = 20mg/kg bw/day		DNEL = 20mg/kg bw/day
Phenol 108-95-2 ( <1.0 )				DNEL = 1.23mg/kg bw/day
Isopropyl alcohol 67-63-0 ( <1.0 )				DNEL = 888mg/kg bw/day
C.I. Basic Violet 3 548-62-9 ( <1.0 )				DNEL = 0.42mg/kg bw/day

Component	Acute effects local (Inhalation)	Acute effects systemic (Inhalation)	Chronic effects local (Inhalation)	Chronic effects systemic (Inhalation)
Ethyl alcohol 64-17-5 ( 14 )	DNEL = 1900mg/m <sup>3</sup>			DNEL = 950mg/m <sup>3</sup>
Methanol 67-56-1 ( <1.0 )	DNEL = 130mg/m <sup>3</sup>	DNEL = 130mg/m <sup>3</sup>	DNEL = 130mg/m <sup>3</sup>	DNEL = 130mg/m <sup>3</sup>
Phenol 108-95-2 ( <1.0 )	DNEL = 16mg/m <sup>3</sup>			DNEL = 8mg/m <sup>3</sup>
Isopropyl alcohol 67-63-0 ( <1.0 )				DNEL = 500mg/m <sup>3</sup>
C.I. Basic Violet 3 548-62-9 ( <1.0 )				DNEL = 1.48mg/m <sup>3</sup>

## Predicted No Effect Concentration (PNEC)

See values below.

Component	Fresh water	Fresh water sediment	Water Intermittent	Microorganisms in sewage treatment	Soil (Agriculture)
Ethyl alcohol 64-17-5 ( 14 )	PNEC = 0.96mg/L	PNEC = 3.6mg/kg sediment dw	PNEC = 2.75mg/L	PNEC = 580mg/L	PNEC = 0.63mg/kg soil dw
Methanol 67-56-1 ( <1.0 )	PNEC = 20.8mg/L	PNEC = 77mg/kg sediment dw	PNEC = 1540mg/L	PNEC = 100mg/L	PNEC = 100mg/kg soil dw
Phenol 108-95-2 ( <1.0 )	PNEC = 0.0077mg/L	PNEC = 0.0915mg/kg sediment dw	PNEC = 0.031mg/L	PNEC = 2.1mg/L	PNEC = 0.136mg/kg soil dw
Isopropyl alcohol 67-63-0 ( <1.0 )	PNEC = 140.9mg/L	PNEC = 552mg/kg sediment dw	PNEC = 140.9mg/L	PNEC = 2251mg/L	PNEC = 28mg/kg soil dw
C.I. Basic Violet 3 548-62-9 ( <1.0 )	PNEC = 0.0024mg/L				

Component	Marine water	Marine water sediment	Marine water Intermittent	Food chain	Air
Ethyl alcohol 64-17-5 ( 14 )	PNEC = 0.79mg/L	PNEC = 2.9mg/kg sediment dw		PNEC = 0.38g/kg food PNEC = 0.72g/kg food	
Methanol 67-56-1 ( <1.0 )	PNEC = 2.08mg/L	PNEC = 7.7mg/kg sediment dw			
Phenol 108-95-2 ( <1.0 )	PNEC = 0.00077mg/L	PNEC = 0.00915mg/kg sediment dw			
Isopropyl alcohol 67-63-0 ( <1.0 )	PNEC = 140.9mg/L	PNEC = 552mg/kg sediment dw		PNEC = 160mg/kg food	

## 8.2. Exposure controls

### Engineering Measures

Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that

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eyewash stations and safety showers are close to the workstation location.

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

**Eye Protection** Goggles (European standard - EN 166)

**Hand Protection** Protective gloves

Glove material	Breakthrough time	Glove thickness	EU standard	Glove comments
Disposable gloves	See manufacturers recommendations	-	EN 374	(minimum requirement)

**Skin and body protection** Long sleeved clothing.

Inspect gloves before use. observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) 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. gloves with care avoiding skin contamination.

**Respiratory Protection** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.  
To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly

**Large scale/emergency use** In case of insufficient ventilation, wear suitable respiratory equipment

**Small scale/Laboratory use** Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.  
When RPE is used a face piece Fit Test should be conducted

**Environmental exposure controls** Prevent product from entering drains. Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

<b>Physical State</b>	Liquid	
<b>Appearance</b>	Dark purple	
<b>Odor</b>	No information available	
<b>Odor Threshold</b>	No data available	
<b>Melting Point/Range</b>	No data available	
<b>Softening Point</b>	No data available	
<b>Boiling Point/Range</b>	Not applicable	
<b>Flammability (liquid)</b>	Flammable	On basis of test data
<b>Flammability (solid,gas)</b>	Not applicable	Liquid
<b>Explosion Limits</b>	No data available	
<b>Flash Point</b>	36.11 °C / 97 °F	<b>Method -</b> CC (closed cup)
<b>Autoignition Temperature</b>	No data available	
<b>Decomposition Temperature</b>	No data available	
<b>pH</b>	3.0 - 5.5	
<b>Viscosity</b>	No data available	
<b>Water Solubility</b>	No information available	
<b>Solubility in other solvents</b>	No information available	
<b>Partition Coefficient (n-octanol/water)</b>		
<b>Component</b>	<b>log Pow</b>	
Ethyl alcohol	-0.32	
Methanol	-0.74	

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Phenol	1.5	
Isopropyl alcohol	0.05	
Vapor Pressure	No data available	
Density / Specific Gravity	No data available	
Bulk Density	Not applicable	Liquid
Vapor Density	No data available	(Air = 1.0)
Particle characteristics	Not applicable (liquid)	

## 9.2. Other information

**Explosive Properties** explosive air/vapour mixtures possible

## SECTION 10: STABILITY AND REACTIVITY

**10.1. Reactivity** None known, based on information available

**10.2. Chemical stability** Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

**Hazardous Polymerization** Hazardous polymerization does not occur.  
**Hazardous Reactions** None under normal processing.

**10.4. Conditions to avoid** Keep away from open flames, hot surfaces and sources of ignition.

**10.5. Incompatible materials** None known.

**10.6. Hazardous decomposition products** None under normal use conditions.

## SECTION 11: TOXICOLOGICAL INFORMATION

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

**Product Information** Product does not present an acute toxicity hazard based on known or supplied information

**(a) acute toxicity;**  
**Oral** Based on ATE data, the classification criteria are not met  
Based on available data, the classification criteria are not met  
**Dermal** Based on ATE data, the classification criteria are not met  
Based on available data, the classification criteria are not met  
**Inhalation** Based on ATE data, the classification criteria are not met  
Based on available data, the classification criteria are not met

### Toxicology data for the components

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethyl alcohol	LD50 = 7060 mg/kg ( Rat )	-	20000 ppm/10H ( Rat )
Methanol	LD50 = 1187 – 2769 mg/kg ( Rat )	LD50 = 17100 mg/kg ( Rabbit )	LC50 = 128.2 mg/L ( Rat ) 4 h
Phenol	LD50 = 340 mg/kg ( Rat )	LD50 = 630 mg/kg ( Rabbit )	-
Isopropyl alcohol	5045 mg/kg ( Rat )	12800 mg/kg ( Rat )	72.6 mg/L ( Rat ) 4 h

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	3600 mg/kg ( Mouse )		
C.I. Basic Violet 3	LD50 = 420 mg/kg ( Rat )	-	-

(b) skin corrosion/irritation; Category 2

(c) serious eye damage/irritation; Category 2

(d) respiratory or skin sensitization;

Respiratory No data available  
Skin No data available

Component	Test method	Test species	Study result
Methanol 67-56-1 ( <1.0 )	OECD Test Guideline 406 Guinea Pig Maximisation Test (GPMT)	guinea pig	non-sensitising

(e) germ cell mutagenicity; Category 2

(f) carcinogenicity; Category 1B

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

Component	EU	UK	Germany	IARC
C.I. Basic Violet 3	Carc Cat. 1B			Group 2B

(g) reproductive toxicity; No data available

Component	Test method	Test species / Duration	Study result
Methanol 67-56-1 ( <1.0 )	OECD Test Guideline 416	Rat / Inhalation 2 Generation	NOAEC = 1.3 mg/l (air)

(h) STOT-single exposure; Category 2

Results / Target organs Optic nerve, Central nervous system (CNS).

(i) STOT-repeated exposure; No data available

Target Organs None known.

(j) aspiration hazard; No data available

Symptoms / effects, both acute and delayed Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

## 11.2. Information on other hazards

**Endocrine Disrupting Properties** Assess endocrine disrupting properties for human health. This product does not contain any known or suspected endocrine disruptors.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

#### Ecotoxicity effects

The product contains following substances which are hazardous for the environment.  
Contains a substance which is: Very toxic to aquatic organisms.

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Component	Freshwater Fish	Water Flea	Freshwater Algae
Ethyl alcohol	Fathead minnow (Pimephales promelas) LC50 = 14200 mg/L/96h	EC50 = 9268 mg/L/48h EC50 = 10800 mg/L/24h	EC50 (72h) = 275 mg/l (Chlorella vulgaris)
Methanol	Pimephales promelas: LC50 > 10000 mg/L 96h	EC50 > 10000 mg/L 24h	
Phenol	4-7 mg/L LC50 96 h 32 mg/L LC50 96 h	EC50: 10.2 - 15.5 mg/L, 48h (Daphnia magna) EC50: 4.24 - 10.7 mg/L, 48h Static (Daphnia magna)	EC50: 0.0188 - 0.1044 mg/L, 96h static (Pseudokirchneriella subcapitata) EC50: 187 - 279 mg/L, 72h static (Desmodesmus subspicatus) EC50: = 46.42 mg/L, 96h (Pseudokirchneriella subcapitata)
Isopropyl alcohol	LC50: = 9640 mg/L, 96h flow-through (Pimephales promelas) LC50: > 1400000 µg/L, 96h (Lepomis macrochirus) LC50: = 11130 mg/L, 96h static (Pimephales promelas) LC50: = 10000000 µg/L, 96h (Daphnia)	13299 mg/L EC50 = 48 h 9714 mg/L EC50 = 24 h	EC50: > 1000 mg/L, 96h (Desmodesmus subspicatus) EC50: > 1000 mg/L, 72h (Desmodesmus subspicatus)

Component	Microtox	M-Factor
Ethyl alcohol	Photobacterium phosphoreum: EC50 = 34634 mg/L/30 min Photobacterium phosphoreum: EC50 = 35470 mg/L/5 min	
Methanol	EC50 = 39000 mg/L 25 min EC50 = 40000 mg/L 15 min EC50 = 43000 mg/L 5 min	
Phenol	EC50 21 - 36 mg/L 30 min EC50 = 23.28 mg/L 5 min EC50 = 25.61 mg/L 15 min EC50 = 28.8 mg/L 5 min EC50 = 31.6 mg/L 15 min	
Isopropyl alcohol	= 35390 mg/L EC50 Photobacterium phosphoreum 5 min	
C.I. Basic Violet 3		1

## 12.2. Persistence and degradability No information available

Component	Degradability
Methanol 67-56-1 ( <1.0 )	DT50 ~ 17.2d >94% after 20d

### Degradation in sewage treatment plant

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

## 12.3. Bioaccumulative potential No information available

Component	log Pow	Bioconcentration factor (BCF)
Ethyl alcohol	-0.32	No data available
Methanol	-0.74	<10
Phenol	1.5	No data available
Isopropyl alcohol	0.05	No data available

## 12.4. Mobility in soil No information available .

## 12.5. Results of PBT and vPvB No data available for assessment.

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## assessment

### 12.6. Endocrine disrupting properties

#### **Endocrine Disruptor Information**

This product does not contain any known or suspected endocrine disruptors

### 12.7. Other adverse effects

#### **Persistent Organic Pollutant**

This product does not contain any known or suspected substance

#### **Ozone Depletion Potential**

This product does not contain any known or suspected substance

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

#### **Waste from Residues/Unused Products**

Dispose of in accordance with local regulations. Waste is classified as hazardous. Dispose of in accordance with the European Directives on waste and hazardous waste.

#### **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.

#### **European Waste Catalogue (EWC)**

According to the European Waste Catalog, Waste Codes are not product specific, but application specific.

#### **Other Information**

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 let this chemical enter the environment. Do not empty into drains.

#### **Switzerland - Waste Ordinance**

Disposal should be in accordance with applicable regional, national and local laws and regulations. Ordinance on the Avoidance and the Disposal of Waste (Waste Ordinance, ADWO) SR 814.600  
<https://www.fedlex.admin.ch/eli/cc/2015/891/en>

## SECTION 14: TRANSPORT INFORMATION

### IMDG/IMO

#### 14.1. UN number

UN1170

#### 14.2. UN proper shipping name

Ethanol solution

#### 14.3. Transport hazard class(es)

3

#### 14.4. Packing group

III

### ADR

#### 14.1. UN number

UN1170

#### 14.2. UN proper shipping name

Ethanol solution

#### 14.3. Transport hazard class(es)

3

#### 14.4. Packing group

III

### IATA

#### 14.1. UN number

UN1170

#### 14.2. UN proper shipping name

Ethanol solution

#### 14.3. Transport hazard class(es)

3

#### 14.4. Packing group

III

OXDGCV

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- 14.5. Environmental hazards** No hazards identified
- 14.6. Special precautions for user** No special precautions required
- 14.7. Maritime transport in bulk according to IMO instruments** Not applicable, packaged goods

## SECTION 15: REGULATORY INFORMATION

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

#### International Inventories

Europe (EINECS/ELINCS/NLP), China (IECSC), Taiwan (TCSI), Korea (KECL), Japan (ENCS), Japan (ISHL), Canada (DSL/NDSL), Australia (AICS), New Zealand (NZIoC), Philippines (PICCS). US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

Component	CAS No	EINECS	ELINCS	NLP	IECSC	TCSI	KECL	ENCS	ISHL
Ethyl alcohol	64-17-5	200-578-6	-	-	X	X	KE-13217	X	X
Methanol	67-56-1	200-659-6	-	-	X	X	KE-23193	X	X
Phenol	108-95-2	203-632-7	-	-	X	X	KE-28209	X	X
Isopropyl alcohol	67-63-0	200-661-7	-	-	X	X	KE-29363	X	X
C.I. Basic Violet 3	548-62-9	208-953-6	-	-	X	X	KE-07006	X	X

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	DSL	NDSL	AICS	NZIoC	PICCS
Ethyl alcohol	64-17-5	X	ACTIVE	X	-	X	X	X
Methanol	67-56-1	X	ACTIVE	X	-	X	X	X
Phenol	108-95-2	X	ACTIVE	X	-	X	X	X
Isopropyl alcohol	67-63-0	X	ACTIVE	X	-	X	X	X
C.I. Basic Violet 3	548-62-9	X	ACTIVE	X	-	X	X	X

Legend: X - Listed '-' - Not Listed

KECL - NIER number or KE number (<http://ncis.nier.go.kr/en/main.do>)

#### 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)
Methanol	-	Use restricted. See item 69. (see link for restriction details)	-
Phenol	-	Use restricted. See item 75. (see link for restriction details)	-
Isopropyl alcohol	-	Use restricted. See item 75. (see link for restriction details)	-
C.I. Basic Violet 3	-	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 - 208-953-6 - 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/substances-restricted-under-reach>

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

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety
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		Accident Notification	Report Requirements
Ethyl alcohol	64-17-5	Not applicable	Not applicable
Methanol	67-56-1	500 tonne	5000 tonne
Phenol	108-95-2	Not applicable	Not applicable
Isopropyl alcohol	67-63-0	Not applicable	Not applicable
C.I. Basic Violet 3	548-62-9	Not applicable	Not applicable

## Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals

Not applicable

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

Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values

Take note of Dir 76/769/EEC relating to restrictions on the marketing and use of certain dangerous substances and preparations

## National Regulations

**UK** - Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment

## WGK Classification

Water endangering class = 3 (self classification)

Component	Germany - Water Classification (VwVwS)	Germany - TA-Luft Class
Ethyl alcohol	WGK1	
Methanol	WGK 2	
Phenol	WGK2	Class I : 20 mg/m <sup>3</sup> (Massenkonzentration)
Isopropyl alcohol	WGK1	
C.I. Basic Violet 3	WGK3	

Component	France - INRS (Tables of occupational diseases)
Ethyl alcohol	Tableaux des maladies professionnelles (TMP) - RG 84
Methanol	Tableaux des maladies professionnelles (TMP) - RG 84
Phenol	Tableaux des maladies professionnelles (TMP) - RG 14
Isopropyl alcohol	Tableaux des maladies professionnelles (TMP) - RG 84

## Swiss Regulations

Article 4 para. 4 of the Ordinance on the protection of young people in the workplace (SR 822.115) and Article 1 lit. f of the EAER regulation on hazardous work and young people (SR 822.115.2).

Take note on Article 13 Maternity Ordinance (SR 822.111.52) with regards expectant and nursing mothers.

Component	Switzerland - Ordinance on the Reduction of Risk from handling of hazardous substances preparation (SR 814.81)	Switzerland - Ordinance on Incentive Taxes on Volatile Organic Compounds (OVOC)	Switzerland - Ordinance of the Rotterdam Convention on the Prior Informed Consent Procedure
Ethyl alcohol 64-17-5 ( 14 )		Group I	
Methanol 67-56-1 ( <1.0 )	Prohibited and Restricted Substances	Group I	
Phenol 108-95-2 ( <1.0 )	Prohibited and Restricted Substances		
Isopropyl alcohol 67-63-0 ( <1.0 )		Group I	
C.I. Basic Violet 3 548-62-9 ( <1.0 )	Prohibited and Restricted Substances		

## 15.2. Chemical safety assessment

Chemical Safety Assessment/Reports (CSA/CSR) are not required for mixtures

## SECTION 16: OTHER INFORMATION

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## Full text of H-Statements referred to under sections 2 and 3

H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H371 - May cause damage to organs  
H341 - Suspected of causing genetic defects  
H350 - May cause cancer  
H412 - Harmful to aquatic life with long lasting effects  
H225 - Highly flammable liquid and vapor  
H301 - Toxic if swallowed  
H302 - Harmful if swallowed  
H311 - Toxic in contact with skin  
H314 - Causes severe skin burns and eye damage  
H318 - Causes serious eye damage  
H331 - Toxic if inhaled  
H336 - May cause drowsiness or dizziness  
H370 - Causes damage to organs  
H400 - Very toxic to aquatic life  
H410 - Very toxic to aquatic life with long lasting effects

## Legend

**CAS** - Chemical Abstracts Service

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

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

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

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

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

**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List

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

**AICS** - Australian Inventory of Chemical Substances

**NZIoC** - New Zealand Inventory of Chemicals

**WEL** - Workplace Exposure Limit

**ACGIH** - American Conference of Governmental Industrial Hygienists

**DNEL** - Derived No Effect Level

**RPE** - Respiratory Protective Equipment

**LC50** - Lethal Concentration 50%

**NOEC** - No Observed Effect Concentration

**PBT** - Persistent, Bioaccumulative, Toxic

**TWA** - Time Weighted Average

**IARC** - International Agency for Research on Cancer  
Predicted No Effect Concentration (PNEC)

**LD50** - Lethal Dose 50%

**EC50** - Effective Concentration 50%

**POW** - Partition coefficient Octanol:Water

**vPvB** - very Persistent, very Bioaccumulative

**ADR** - European Agreement Concerning the International Carriage of Dangerous Goods by Road

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

**OECD** - Organisation for Economic Co-operation and Development

**BCF** - Bioconcentration factor

## **Key literature references and sources for data**

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

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

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

**MARPOL** - International Convention for the Prevention of Pollution from Ships

**ATE** - Acute Toxicity Estimate

**VOC** - (volatile organic compound)

## **Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:**

**Physical hazards** On basis of test data

**Health Hazards** Calculation method

**Environmental hazards** Calculation method

## **Training Advice**

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

**Creation Date** 05-Apr-2011

**Revision Date** 10-Dec-2021

**Revision Summary** Update to CLP Format.

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

# **SAFETY DATA SHEET**

Gram Crystal Violet

Revision Date 10-Dec-2021

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## **COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006**

**For Switzerland - Compiled in accordance with the technical provisions referred to in Annex 2, Number 3, Chemo (SR 813.11 - Ordinance on Protection against Dangerous Substances and Preparations).**

### **Disclaimer**

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**End of Safety Data Sheet**