

according to Regulation (EC) No 1907/2006

	Carbol-crystal violet solution acc.	to Gram, 250 ml	
Print date: 14.04.2015	Product code: 9991453	\$	Page 1 of 8
SECTION 1: Identification of t	he substance/mixture and of the comp	any/undertaking	
1.1. Product identifier			
Carbol-crystal vio	let solution acc. to Gram, 250 ml		
1.2. Relevant identified uses of t	he substance or mixture and uses advised	against	
Use of the substance/mixture			
Laboratory chemi	cals		
1.3. Details of the supplier of the	e safety data sheet		
Seller			
Company name:	CONATEX-DIDACTIC Lehrmittel Gml	bH	
Street:	Im Forstgarten 1		
Place:	D-66459 Kirkel		
Internet:	www.conatex.com		
Supplier			
Company name:	Carbolution Chemicals GmbH		
Street:	Im Stadtwald, Gebäude A1.2		
Place:	D-66123 Saarbrücken		
Contact person:	Dr. Michael Bauer	Telephone: +49 (0)681 302-71232	
e-mail:	michael.bauer@carbolution-chemical	s.de	
Internet:	www.carbolution-chemicals.de		
1.4. Emergency telephone number:	+49 (0)681 302-71232		

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC

Indications of danger: Xn - Harmful, Xi - Irritant R phrases: Irritating to eyes and skin. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Possible risks of irreversible effects.

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

Hazard categories: Skin corrosion/irritation: Skin Irrit. 2 Serious eye damage/eye irritation: Eye Irrit. 2 Germ cell mutagenicity: Muta. 2 Hazardous to the aquatic environment: Aquatic Chronic 3 Hazard Statements: Causes skin irritation. Causes serious eye irritation. Suspected of causing genetic defects. Harmful to aquatic life with long lasting effects.

2.2. Label elements

Hazardous components which must be listed on the label phenol				
Signal word:	Warning			
Pictograms:	GHS07-GHS08			



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•						
Causes skin irritation.						
Causes serious eye irritation.						
Suspected of causing genetic defects.						
Harmful to aquatic life with long lasting effects.						
ts						
ts Avoid release to the environment.						
ts						
	Product code: 9991453					

3.2. Mixtures

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
200-578-6	ethanol, ethyl alcohol	5 - < 10 %
64-17-5	F - Highly flammable R11	
603-002-00-5	Flam. Liq. 2; H225	
203-632-7	phenol	1 - < 5 %
108-95-2	Muta. Cat. 3, T - Toxic, C - Corrosive, Xn - Harmful R68-23/24/25-48/20/21/22-34	
604-001-00-2	Muta. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT RE 2, Skin Corr. 1B; H341 H331 H311 H301 H373 ** H314	
208-953-6	4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride, C.I. Basic Violet 3	< 1 %
548-62-9	Carc. Cat. 3, Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R40-22-41-50-53	
612-204-00-2	Carc. 2, Acute Tox. 4, Eye Dam. 1, Aquatic Acute 1 (M-Factor = 1), Aquatic Chronic 1 (M-Factor = 1); H351 H302 H318 H400 H410	

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

Provide fresh air.

After contact with skin

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off



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	immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.				
After contac	ct with eyes				
	After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then				

consult an ophthalmologist immediately.

After ingestion

Print da

Rinse mouth immediately and drink plenty of water.

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

The product itself does not burn.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Advice on protection against fire and explosion

Only use the material in places where open light, fire and other flammable sources can be kept away.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters



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Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL
108-95-2	Phenol	2	7.8		TWA (8 h)	WEL
		4	16		STEL (15 min)	WEL

8.2. Exposure controls

Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

Eye/face protection

Eye protection: Tightly sealed safety glasses. German Industry Norms (DIN) / European Norms (EN): DIN EN 166

Hand protection

Hand protection: Single-use gloves. Before using check leak tightness / impermeability. Use gloves only once. German Industry Norms (DIN) / European Norms (EN): DIN EN 374

Skin protection

Body protection: Lab apron. Only wear fitting, comfortable and clean protective clothing.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Suitable respiratory protective equipment: particulates filter device (DIN EN 143).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

.1. Information on pasic physical and ch	ennical properties		
Physical state:	liquid		
Colour:	violet		
Odour:	No data available		
			Test method
pH-Value:		No data available	9
Changes in the physical state			
Initial boiling point and boiling range:		No data available	;
Sublimation point:		No data available	;
Softening point:		No data available	9
Flash point:		No data available	9
Flammability			
Solid:		No data available	9
Gas:		No data available	9
Lower explosion limits:		No data available	9
Upper explosion limits:		No data available	;
Ignition temperature:		No data available	9



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Auto-ignition temperature						
Solid:	No data available					
Gas:	No data available					
Vapour pressure:	No data available					
Vapour pressure:	No data available					
Density:	No data available					
Water solubility:	No data available					
Partition coefficient:	No data available					
Viscosity / dynamic:	No data available					
Viscosity / kinematic:	No data available					
Flow time:	No data available					
Vapour density:	No data available					
Evaporation rate:	No data available					
Solvent separation test:	No data available					
Solvent content:	No data available					
9.2. Other information						
Solid content:	No data available					
SECTION 10: Stability and reactivity						

10.1. Reactivity

No data available

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid No data available

10.5. Incompatible materials

Oxidizing agents, strong.

10.6. Hazardous decomposition products

No data available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicocinetics, metabolism and distribution

Toxicological data are not available.

Acute toxicity

Toxicological data are not available.



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CAS No	Chemical name					
	Exposure routes	Method	Dose	Species	Source	
64-17-5	ethanol, ethyl alcohol					
	oral	LD50	6200 mg/kg	Ratte		
	inhalative (4 h) vapour	LC50	95,6 mg/l	Ratte		
108-95-2	phenol					
	oral	ATE	100 mg/kg			
	dermal	ATE	300 mg/kg			
	inhalative vapour	ATE	3 mg/l			
	inhalative (4 h) aerosol	LC50	0,316 mg/l	Ratte		
548-62-9	4-[4,4'-bis(dimethylamino) benzh Violet 3	4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride, C.I. Basic Violet 3				
	oral	ATE	500 mg/kg			

Irritation and corrosivity

Causes eye irritation. Causes skin irritation.

Sensitising effects

No data available

Severe effects after repeated or prolonged exposure

No data available

Carcinogenic/mutagenic/toxic effects for reproduction

May cause heritable genetic damage.

Specific effects in experiment on an animal

No data available

Additional information on tests

This mixture is classified as hazardous according to 1999/45/EC.

Practical experience

Observations relevant to classification

No data available

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CAS No	Chemical name	Chemical name						
	Aquatic toxicity	Method	Dose	[h] [d]	Species	Source		
64-17-5	ethanol, ethyl alcohol							
	Acute crustacea toxicity	EC50 mg/l	9268 - 14221	48 h	Daphnia magna			
108-95-2	phenol							
	Acute algae toxicity	ErC50	229 mg/l	72 h	Algen			

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available



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Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
64-17-5	ethanol, ethyl alcohol	-0,31
108-95-2	phenol	1,5

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

No data available

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

Waste disposal number of waste from residues/unused products

WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded 160506 chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals

Classified as hazardous waste.

Waste disposal number of used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals Classified as hazardous waste.

Waste disposal number of contaminated packaging

WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE 150110 CLOTHING NOT OTHERWISE SPECIFIED: packaging (including separately collected municipal packaging waste): packaging containing residues of or contaminated by dangerous substances Classified as hazardous waste.

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

Other applicable information (land transport)

No dangerous good in sense of these transport regulations.

Inland waterways transport (ADN)

Other applicable information (inland waterways transport)

No dangerous good in sense of these transport regulations.

Marine transport (IMDG)

Other applicable information (marine transport)

No dangerous good in sense of these transport regulations.

Air transport (ICAO)



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	information (air trar angerous good in se	nsport) nse of these transport regulations.	
14.5. Environmental	hazards		
ENVIRONMENTA	LLY HAZARDOUS:	no	
SECTION 15: Regu	llatory information	n	
<u>15.1. Safety, health a</u>	nd environmental r	egulations/legislation specific for the substance or mixture	
EU regulatory inf	ormation		
2004/42/EC (VOC	;);	11,36 %	
Additional inform			
		ling to Regulation (EC) No. 1907/2006 (REACH)	
	-	ing to Regulation (EC) No. 1907/2000 (REACIT)	
National regulato	-		
Water contaminati	ng class (D):	2 - water contaminating	
SECTION 16: Othe	r information		
Relevant R-phras	es (Number and ful	I text)	
11	Highly flammable.		
22	Harmful if swallowe		
23/24/25		, in contact with skin and if swallowed.	
34	Causes burns.		
40		f a carcinogenic effect.	
41	Risk of serious dan		
48/20/21/22	contact with skin ar		
50	Very toxic to aquati		
53		rm adverse effects in the aquatic environment.	
68	Possible risks of irr		
	EUH-phrases (Numb		
H225	0,	nmable liquid and vapour.	
H301	Toxic if sw		
H302		swallowed.	
H311		ntact with skin.	
H314 H315		evere skin burns and eye damage. Sin irritation.	
H315		prious eye damage.	
H319		prious eye damage.	
H319	Toxic if inh	•	
H341		l of causing genetic defects.	
H351		l of causing cancer.	
H373		e damage to organs through prolonged or repeated exposure.	
H400	•	to aquatic life.	
H410	•	to aquatic life with long lasting effects.	
H412		aquatic life with long lasting effects.	

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)