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SEC	TION 1: COMPAN	Y AND PRODUCT INFORMATION			
1.1	Product identifiers				
	Product name	: Crystal Violet 2%			
	Product code	: 30430001			
	CAS number	: 548-62-9			
	Synonyms	Basic Violet 3, Methyl Violet 10B, Hexamethylpararosaniline chloride, Gentian Violet			
1.2 Relevant identified uses of the substance or mixture and uses advised against					
	Identified uses	: For research and laboratory use only.			
1.3	Details of the supplier of the safety data sheet				
	Address	: Genelinx International Inc, dba bioWORLD 4150 Tuller Rd. Suite 228 Dublin, OH 43017			
	Email	: tech@bio-world.com			
	Phone	: 614-792-8680, Toll free: 1-888-bio-PLUS			
	Fax	: 614-792-8685			
1.4 Emergency telephone number		one number			

Emergency phone : 1-888-bio-PLUS

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture

Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH) Acute toxicity, Oral (Category 4), H302 Serious eye damage (Category 1), H318 Carcinogenicity (Category 2), H351 Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 1), H410

2.2 GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 4), H302 Serious eye damage (Category 1), H318 Carcinogenicity (Category 2), H351 Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 1), H410

2.3 Label elements and precautionary statements

Pictogram



Signal word	: Danger
Hazard statement(s)	 H302 Harmful if swallowed. H318 Causes serious eye damage. H351 Suspected of causing cancer. H410 Very toxic to aquatic life with long lasting effects.
Precautionary statement(s)	 P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment. P280 Wear eye protection/ face protection. P281 Use personal protective equipment as required. P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth. 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/ physician.
	P308 + P313 IF exposed or concerned: Get medical advice/ attention. P391 Collect spillage. P405 Store locked up.
	P501 Dispose of contents/ container to an approved waste disposal plant.

2.4 Hazards not otherwise classified (HNOC) or not covered by GHS

No unclassified hazards known.

2.5 NFPA Rating

Health hazard	: 2
Fire hazard	: 0
Reactivity hazard	: 0
HMIS Rating	
Health hazard	• 2

2.6

Health hazard	:	2
Chronic health hazard	:	-
Reactivity hazard	:	0
Flammability	:	0
Physical hazard	:	0

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Substance	CAS#	EC#	Concentration
Crystal Violet M.F: C ₂₅ H ₃₀ N ₃ Cl M.W: 407.98 g/mol	548-62-9	208-953-6	>= 1% - < 5%

3.2 Hazardous components & classification

Acute Tox. 4; Eye Dam. 1; Carc. 2; Aquatic Acute 1; Aquatic Chronic 1; H302, H318, H351, H410

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician if symptoms are severe or persistent. Provide this data sheet to medical personnel. If product is spilled or leaked, evacuate area.

In case of inhalation

If inhaled, move person to fresh air and monitor breathing. If not breathing, give artificial ventilation. Consult a physician if symptoms are severe or persistent.

In case of skin contact

Immediately wash with excess soap and water. If spilled on clothing, remove all affected clothing. Consult a physician if symptoms are severe or persistent.

In case of eye contact

Flush eyes with water or eye wash solution as a precaution for 15 minutes. Consult a physician if symptoms are severe or persistent.

In case of ingestion

Only induce vomiting if recommended by medical personnel. If subject is unconscious, do not give anything by mouth. If conscious, rinse mouth with water. Consult a physician if symptoms are severe or persistent.

4.2 Most important symptoms and effects, both acute and delayed

All known important symptoms are described in Section 2 and/or Section 11. No other important symptoms to report.

4.3 Indication of any immediate medical attention and special treatment needed

No special treatment indicated. Provide treatment in accordance with exhibited systems.

SECTION 5: FIREFIGHTING MEASURES

5.1 Suitable extinguishing media

Water spray, alcohol-resistant foam, dry chemical, and carbon dioxide extinguishers are suitable.

5.2 Unsuitable extinguishing media

No known unsuitable extinguishing media.

5.3 Special hazards arising from the substance

Carbon oxides, nitrogen oxides (NOx), and hydrogen chloride gas can be formed if fire occurs.

5.4 Advice for firefighters

Wear protective gear, such as self-contained breathing apparatus, if necessary.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Provide suitable ventilation. Use any necessary personal protective equipment. Avoid contact with skin and eyes, and avoid creation and inhalation of vapor or dust. Keep all unnecessary personnel away.

For personal protection see section 8

6.2 Environmental precautions

Prevent product from entering public sewers and waterways.

6.3 Methods and material for containment and cleaning up

Use inert absorbent material to absorb any spilled or leaked product. Keep in suitable, closed containers for disposal.

For proper disposal see section 13

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Provide suitable ventilation. Wear any necessary personal protective equipment. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Use with local exhaust ventilation. Corrosive hazard. Wear protective gloves/clothing and eye/face protection. Thermal decomposition can lead to release of toxic/corrosive gases and vapors.

For precautions see section 2

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions : Store upright, closed container in arid, ventilated environment.

Incompatible materials : Not available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

This product is not known to contain any substances with occupational exposure limit values.

8.2 Engineering controls

Follow good industrial hygiene and safety practices when handling product.

8.3 Personal protective equipment

Eye/face protection	lse only gov	ernment-approved safety glasses with side-shields.
Skin protection	nsure suita uter surfac	when handling product. Inspect gloves before use to bility for use. Remove without exposing skin to the gloves e. Discard used gloves according to all pertinent laws nt good practices (cGXP). Wash hands with soap and
Body protection	o holes or t	priate clothing. Ensure clothing is in good condition, with ears. When selecting clothing, consider the concentration of substance to be handled.
Respiratory protection	DC and NIC	proved respirators and components which comply with OSH (US) or CEN (EU) regulations. Required only when rosols are created.
Control of environmental exposure		luct from entering the environment, especially through s or waterways.
General hygiene considerations	comply with	general industrial hygiene practice guidelines.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

9.1	information on basic physical ar	าต	chemical proper
a)	Appearance	:	Dark Violet
b)	Physical states	:	Liquid
c)	Odor	:	Not available
d)	Odor threshold	:	Not available
e)	Melting point	:	Not available
f)	Boiling point range	:	Not available
g)	рН	:	Not available
h)	Density	:	Not available
i)	Flash point	:	Not available
j)	Evaporation rate	:	Not available
k)	Flammability	:	Not available
I)	Upper/lower flammability or explosive limits:	:	Not available
m)	Vapor pressure	:	Not available
n)	Vapor density	:	Not available
o)	Relative density	:	Not available
p)	Water solubility	:	Not available
q)	Partition coefficient:n-octanol/water	:	Not available
r)	Autoignition temperature	:	Not available
s)	Decomposition temperature	:	Not available
t)	Kinematic viscosity	:	Not available
u)	Explosive properties	:	Not available
v)	Oxidizing properties	:	Not available
w)	Solubility in other solvents	:	Not available
x)	Surface tension	:	Not available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No special reactivity is known.

10.2 Chemical stability

Product is stable when stored and used as recommended.

10.3 Stability note(s)

No special or unusual instability known.

10.4 Polymerization

No known polymerization.

10.5 Possibility of hazardous reactions

No hazardous reactions are known.

10.6 Incompatible materials

Strong oxidizing agents are incompatible with this product.

10.7 Hazardous decomposition products

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Acute toxicity

LD50 Oral	: Mouse - 96 mg/kg Rabbit - 150 mg/kg,

LD50 Dermal : No toxicity data available.

LC50 Inhalation : No toxicity data available.

11.2 Skin corrosion/irritation

No skin/corrosion irritation data available.

11.3 Serious eye damage/eye irritation

No eye damage/irritation data available.

11.4 Respiratory or skin sensitization

No sensitization data available.

11.5 Germ cell mutagenicity

Human- HeLa cell- DNA inhibition Human- HeLa cell- Cytogenetic analysis Human- lymphocyte- Cytogenetic analysis Rat- Liver- DNA inhibition Mouse- lymphocyte- DNA damage Hamster- ovary- Cytogenetic analysis Mammal- lymphocyte- DNA damage Mammal- Other cell types- Cytogenetic analysis Non-mammalian- Other cell types- Cytogenetic analysis

Result: Equivocal evidence. Histidine reversion (Ames)

11.6 Carcinogenicity

7	Poproductivo toxicity		
	OSHA	:	Product and components are not regulated by OSHA.
	NTP	:	Product and components are not regulated by the NTP.
	ACGIH	:	Product and components are not regulated by the ACGIH.
	IARC	:	Product and components are not regulated by the IARC.

11.7 Reproductive toxicity

No reproductive toxicity data available.

11.8 Specific target organ toxicity – single exposure

No specific organ toxicity data available.

11.9 Specific target organ toxicity – repeated exposure

No specific organ toxicity data available.

11.10 Aspiration hazard

No aspiration hazard data available.

11.11 Additional Information

RTECS: No RTECS data available.

Prolonged or repeated exposure can cause: Nausea, Headache, Vomiting Limited evidence of a carcinogenic effect.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Species: Daphnia magna (Water flea). Exposure: 48 h. Result: EC50 0.35 mg/l (OECD Test Guideline 202)

Species: Pseudokirchneriella subcapitata. Result: EC50 0.42 mg

12.2 Aquatic toxicity

No aquatic toxicity data available.

12.3 Persistence and degradability

Biodegradability Result: 10 % - Not readily biodegradable. Ratio BOD/ThBOD 0.12 %

12.4 Bioaccumulative potential

No bioaccumulation data available.

12.5 Mobility in soil

No soil mobility data available.

12.6 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment is not required/was not conducted.

12.7 Other adverse effect

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Product

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult and adhere to local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

13.2 Packaging

Packaging should be disposed of in the same manner as unused product.

13.3 Recommendation

Disposal must be made according to official regulations.

SECTION 14: TRANSPORTATION INFORMATION

14.1 DOT (US)

UN/ID no. UN3077 Hazard Class 9 Packing Group III Proper shipping name Environmentally hazardous substance, solid, n.o.s. Description UN3077, Environmentally hazardous substance, solid, n.o.s. (Crystal Violet), 9, III Emergency Response Guide Number 171

14.2 IMDG

UN/ID no UN3077 Hazard Class 9 Packing Group III Proper shipping name Environmentally hazardous substance, solid, n.o.s. Description UN3077, Environmentally hazardous substance, solid, n.o.s. (Crystal Violet), 9, III Special Provisions 274, 335, 966, 967 EmS-No F-A, S-F

14.3 IATA

UN/ID no UN3077 Hazard Class 9 Packing Group III Proper shipping name Environmentally hazardous substance, solid, n.o.s. Description UN3077, Environmentally hazardous substance, solid, n.o.s. (Crystal Violet), 9, III

SECTION 15: REGULATORY INFORMATION

15.1 SARA

SARA 302: This product and components are not subject to the reporting requirements of SARA Title III, Section 302.

SARA 313: This product does not contain any components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313. SARA 311/312: Acute Health Hazard, Chronic Health Hazard

15.2 Clean water act (CWA)

No chemicals are present in this product that are subject to regulation under the Clean Water Act.

15.3 Right to know components

Massachusetts	: No chemicals are present which require disclosure under the Massachusetts Right to Know Act.
Pennsylvania	: C.I. Basic violet 3 CAS No.: 548-62-9
New Jersey	: C.I. Basic violet 3 CAS No.: 548-62-9
California proposition 65 components	: This product contains no chemicals which are known to the State of California to cause cancer, or birth defects or other reproductive harm.

SECTION 16: OTHER INFORMATION

16.1 Disclaimer

This product is offered by bioWORLD for research, laboratory or further manufacturing use. Not for human use or consumption. The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchant-ability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall bio-WORLD.com be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if bio-WORLD.com has been advised of the possibility of such damages.

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16.2 Preparation Information

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