Product: SPECTRA CRYSTAL VIOLET 6B

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

Product identifiers:
- Product Form: Substance
- Product Name: SPECTRA CRYSTAL VIOLET 6B
- Product Number: 7.BA.000300
- Color Index: BASIC VIOLET 003
- CAS number: 548-62-9
- Formula or Chemical family: TRIARYLMETHANE
- Synonyms: 

Intended Use of the Product: inks, coatings

Name, Address, and Telephone of the Responsible Party
Spectra Colors Corporation
25 Rizzolo Road
Kearny, NJ 07032 USA
Telephone: 800-527-8588 (USA), 201-997-0606 (Int’l)
Fax number: 201-997-0504
Email: dyes@spectracolors.com

EMERGENCY TELEPHONE NUMBER
- Emergency phone number: Chemtrec 800-424-9300 (USA)
  +1 703-527-3887 (Outside USA)

SECTION 2: Hazards Identification

Classification of the substance or mixture

GHS-US Classification
- Carcinogen (Cat. 1)
- Acute toxicity/oral (Cat. 4)
- Skin corrosion/irritation (Cat. 2)
- Acute toxicity/inhalation (Cat. 4)
- Hazard aquatic environment-long term (Cat. 1)

Label Elements

GHS Labelling:
- Hazard Pictograms (GHS-US):
- Signal Word (GHS-US): Danger
- Hazard Statements (GHS-US):
  - H350 - May cause cancer
  - H302 – Harmful if swallowed
  - H318 - Causes serious eye damage
  - H313 - May be harmful in contact with skin
  - H400 - Very toxic to aquatic life
  - H410 - Very toxic to aquatic life with long lasting effects
Precautionary Statements (GHS-US)

P308 + P313 – IF exposed or concerned: Get medical advice/attention
P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P281 - Use personal protective equipment as required
P405 - Store locked up
P301 + P312 – IF SWALLOWED OR ON SKIN: Call a POISON CENTER / doctor/ physician if you feel unwell
P330 – Rinse mouth
P264 – Wash face thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P305 + 351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P310 – IF IN EYES: Immediately call a POISON CENTER or doctor / physician
P280 - Wear eye protection/face protection
P273 - Avoid release to environment
P391 - Collect spillage
P501 - Dispose of contents/container in accordance with local / regional / national / international regulations

Other Hazards: No data available
Unknown acute toxicity (GHS US): No data available

## SECTION 3: Composition/Information on Ingredients

### Description of substance:

<table>
<thead>
<tr>
<th>Name</th>
<th>Product Identifier CAS No.</th>
<th>Weight%</th>
<th>GHS-US Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>BASIC VIOLET 003</td>
<td>548-62-9</td>
<td>100</td>
<td>Carcinogen (Cat. 1) Acute toxicity/oral (Cat. 4) Skin corrosion/irritation (Cat. 2)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute toxicity/inhalation (Cat. 4) Hazard aquatic environment-long term (Cat. 1)</td>
</tr>
</tbody>
</table>

### Hazardous ingredients:

<table>
<thead>
<tr>
<th>Chemical Designation</th>
<th>CAS No</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>MICHLER'S KETONE</td>
<td>90-94-8</td>
<td>&lt;1.0%</td>
</tr>
</tbody>
</table>

Additional Information: None
SECTION 4: First Aid Measures

Description of first aid measures
First Aid Measures General: Remove contaminated clothing
First-aid measures after inhalation: Remove to fresh air. If breathing is difficult, give oxygen and get immediate medical attention.
First-aid measures after skin contact: Wash affected area thoroughly with soap and water. If any irritation develops, consult a Physician.
First-aid measures after eye contact: Flush with plenty of cool water for at least 15 minutes, holding eyelids apart for thorough irrigation. Get immediate medical attention.
First-aid measures after ingestion: Do NOT induce vomiting unless directed to do so by medical professional.

Most important symptoms and effects, both acute and delayed:
A hazard evaluation of this product has been performed. This product is identified as a hazardous chemical under the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Indication of any immediate medical attention and special treatment needed:
No additional information

SECTION 5: Firefighting Measures

Extinguishing media
Suitable Extinguishing Media: WATER, DRY CHEMICAL, CARBON DIOXIDE, FOAM
Unsuitable Extinguishing Media:
Special hazards arising from the substance or mixture: NONE EXPECTED. FIREFIGHTERS SHOULD BE EQUIPPED WITH SELF-CONTAINED BREATHING APPARATUS TO GUARD AGAINST POTENTIALLY TOXIC AND IRRITATING FUMES. AVOID DUSTING. DUST CAN FORM EXPLOSIVE MIXTURES WITH AIR.

Fire Hazard: N/A
Explosion Hazard: N/A
Reactivity: N/A

Advice for firefighters
Firefighting Instructions: WEAR SELF-CONTAINED BREATHING APPARATUS.
Protection during firefighting: No additional information available

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures
General Measures:
For non-emergency personnel
Protective equipment: See Section 8
Emergency procedures:
For emergency responders
Protective equipment: See Section 8
Emergency procedures:
Avoid any uncontrolled release of material.

Environmental precautions: Do not empty into drains or the aquatic environment.

Methods and materials for containment and cleaning up
For containment: Where spills are possible, a comprehensive spill response plan should be developed and implemented. Steps to be taken if material is released or spilled are as follows: Utilize recommended protective clothing and equipment. Spills should be swept by using an absorbent dust control product and placed in containers.
For cleaning up: Spill area can be washed with water. Collect water for approved disposal. In the event of an uncontrolled release of this material, the user should determine if the release is reportable under applicable laws and regulations.
Reference to other sections: No additional information available.
SAFETY DATA SHEET (SDS)

Product: SPECTRA CRYSTAL VIOLET 6B

SECTION 7: Handling and storage

Precautions for safe handling
Additional hazards when processed:
Precautions for safe handling: CONTAINS <1% MICHLER'S KETONE (CAS# 90-94-8) WHICH WAS DETERMINED TO BE CARCINOGENIC IN RATS AND MICE IN BIOASSAY BY NCTR. OVEREXPOSURE MAY RESULT IN SEVERE IRRITATION.

Hygiene measures: N/A

Conditions for safe storage, including any incompatibilities
Technical measures: N/A
Storage conditions: RISK CODES
R22 HARMFUL IF SWALLOWED
R41 RISK OF SERIOUS INJURY TO EYES
R45(2) MAY CAUSE CANCER
R50/53 VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT
R68(3) POSSIBLE RISK OF IRREVERSIBLE EFFECTS

Incompatible products: N/A
Incompatible materials: N/A
Storage area: N/A
Special rules on packaging: N/A

Specific end use(s): inks, coatings

SECTION 8: Exposure controls / personal protection

Control parameters

Exposure controls
Appropriate engineering controls: N/A

Personal protective equipment:

Hand protection: Wear protective gloves
Eye protection: Tightly sealed safety goggles or full face shield
Skin and body protection: Wear suitable protective clothing
Respiratory protection: Dust Mask
Thermal hazard protection: N/A
Other information: No additional information

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Appearance</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state, appearance, color, odor</td>
<td>VIOLET POWDER</td>
</tr>
<tr>
<td>Odor Threshold:</td>
<td>No data</td>
</tr>
<tr>
<td>pH:</td>
<td>3.0 +/- 1.5</td>
</tr>
<tr>
<td>Melting Point/Freezing Point:</td>
<td>209.00</td>
</tr>
<tr>
<td>Initial boiling point/boiling range:</td>
<td>0.00</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET (SDS)

According to OSHA HazCom Standard 29 CFR 1910.1200 (g), Rev 2012 and GHS Rev 03
Revision No. 0, Revision Date: 25-Mar-15
Printing Date: 30-Aug-16

Product: SPECTRA CRYSTAL VIOLET 6B

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Flashpoint</td>
<td>NORMALLY STABLE, NOT COMBUSTIBLE NOR FLAMMABLE.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>NORMALLY STABLE, NOT COMBUSTIBLE NOR FLAMMABLE.</td>
</tr>
<tr>
<td>Upper explosive limits</td>
<td>N/A</td>
</tr>
<tr>
<td>Lower explosive limits</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor density</td>
<td>N/A</td>
</tr>
<tr>
<td>Relative density</td>
<td>N/A</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>Yes.</td>
</tr>
<tr>
<td>Partition coefficient n-octanol/water</td>
<td>No data</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data</td>
</tr>
<tr>
<td>Viscosity, cinematic</td>
<td>No data</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>N/A</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Other information
No additional information available

SECTION 10: Stability and reactivity

Reactivity: No data
Chemical stability: Stable
Possibility of hazardous reactions
No additional information available
Conditions to avoid: OXIDIZING & REDUCING AGENTS MAY DESTROY COLOR.
Incompatible materials: OXIDIZING & REDUCING AGENTS MAY DESTROY COLOR.
Hazardous decomposition products: CO, CO2, OXIDES OF NITROGEN AND OTHER POTENTIALLY TOXIC FUMES.

SECTION 11: Toxicological information

Information on toxicological effects
Oral (Animal): Oral (rat) LD50: 420 mg/kg
Dermal (animal): Skin (rabbit): non-irritating, (The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterized by skin redness (erythema) and swelling epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis.)
Effects to eyes (Animal): IRRITATING.
Skin irritation (Animal): NOT IRRITATING.
RTECS#: BO9000000

Skin corrosion/irritation: Not classified
Serious eye damage/irritation: Causes serious eye irritation.
Respiratory or skin sensitization: Not classified
Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified
Reproductive toxicity: Not classified
Specific target organ toxicity (single exposure): May cause drowsiness or dizziness.
Aspiration hazard: Not classified
Symptoms/injuries after inhalation: May cause drowsiness or dizziness.
Symptoms/injuries after eye contact: Causes serious eye irritation.
Symptoms/injuries after ingestion: Ingestion may cause nausea, vomiting and diarrhea.
SECTION 12: Ecological information

Toxicity:
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Other adverse effects: No additional information available

SECTION 13: Disposal considerations

Waste treatment methods
Regional legislation (waste): Dispose of only in an approved land-fill area or by controlled incineration in accordance with local and State regulations.

Waste disposal recommendations: Empty bags thoroughly. Carry out the proper recycling, re-usage or disposal. Please refer to the relevant EU regulations, in particular the guidelines/decisions of the council regarding handling of wastes (e.g. 75/442/EEC, 91/689/EEC, 94/67/EC, 94/904/EC) as implemented in national regulations.

SECTION 14: Transport information

UN number: 3077

UN proper shipping name: None

Department of Transportation (DOT):
Transport hazard class(es): N/A

Hazard labels (DOT)
Packing group (DOT): N/A

DOT Special provisions:

Additional information
Overland transport: UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (C.I. Basic violet 3), 9, III Marine pollutant

Transport by sea: UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (C.I. Basic violet 3), 9, III Marine pollutant

Air transport: UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (C.I. Basic violet 3), 9, III Marine pollutant

DOT Quantity Limitations Passenger Aircraft:
DOT Quantity Limitations Cargo Aircraft:

SECTION 15: Regulatory information

US Federal regulations:
This substance is listed on United States TSCA (Toxic Substance Control Act) inventory.
SAFETY DATA SHEET (SDS)
According to OSHA HazCom Standard 29 CFR 1910.1200 (g), Rev 2012 and GHS Rev 03
Revision No. 0, Revision Date: 25-Mar-15
Printing Date: 30-Aug-16

Product: SPECTRA CRYSTAL VIOLET 6B

US State regulations: N/A

Other regulations

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>TSCA</th>
<th>DSL</th>
<th>NDSL</th>
<th>EINECS</th>
<th>ELINCS</th>
<th>ENCS</th>
<th>CHINA</th>
<th>KECL</th>
<th>PICCS</th>
<th>AICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>548-62-9</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

TSCA Status: IN COMPLIANCE

E C Classification: (67/548/EEC – 88/379/EEC) n/a
EINECS Number: 208-953-6
REACH Classification: UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (C.I. Basic violet 3), 9, III
R-phrases: MARINE POLLUTANT RISK CODES - R22, R40, R41, R50/53, R45

Additional Regulatory Information:

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

Other synonyms:

Aniline violet, Basic violet 3, Baszol Violet 57L, Brilliant Violet 58, Hexamethyl-p-roasaniline chloride, Methyrosanilide chloride, Methyl Violet 10B, Methyl Violet 108NS, Pyoktanin, methylrosaniline chloride

SVHC LISTED - Substances listed on the Candidate list carry an immediate requirement for communication if they are present in products imported into Europe in concentrations of 0.1% or more by weight. This requirement exists for substances, mixtures and articles. These substances may also be recommended for inclusion to the authorization list or become subject to restriction.

SECTION 16: Other information

Indication of changes:
Other information: N/A

GHS Full Text Phrases:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H350</td>
<td>May cause cancer</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage</td>
</tr>
<tr>
<td>H313</td>
<td>May be harmful in contact with skin</td>
</tr>
<tr>
<td>H400</td>
<td>Very toxic to aquatic life</td>
</tr>
<tr>
<td>H410</td>
<td>Very toxic to aquatic life with long lasting effects</td>
</tr>
</tbody>
</table>

NFPA Rating: N/A

HMIS Rating: Health: 3 Flammability: 0 Reactivity: 0 Personal Protection: H
SAFETY DATA SHEET (SDS)

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SPECTRA COLORS CORP. makes every effort to assure that the information herewith enclosed in this transmission is accurate and current, to the best of our knowledge. Beyond the scope of these claims, Spectra Colors makes no promises as to the performance of our products in our customers finished applications; neither can we anticipate end-use characteristics. Likewise it is the end-user's responsibility to assure that Spectra Colors dye products are in compliance with all local, federal and global regulations regarding the storage, the use and the disposal of these same dye products. Spectra Colors Corp. provides these materials for informational purposes only and does not hereby make any express or implied warranty regarding merchantability, fitness for a particular purpose, regulatory compliance, or any other matter.