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**** MATERIAL SAFETY DATA SHEET ****

Crystal Violet, Indicator
ACROS96124

**** SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION ****

MSDS Name: Crystal Violet, Indicator

Catalog Numbers:
AC212120000, AC212120250

Synonyms:

Gentian Violet; Basic Violet 3; C.I.42555
Company Identification (Europe): Acros Organics N.V.
Janssen Pharmaceuticaalaa 3a
2440 Geel, Belgium
Company Identification (USA): Acros Organics
One Reagent Lane
Fairlawn, NJ 07410

For information in North America, call: 800-ACROS-01
For information in Europe, call: 0032(0) 14575211
For emergencies in the US, call CHEMTREC: 800-424-9300
For emergencies in Europe, call: 0032(0) 14575299

**** SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS ****

CAS#	Chemical Name	%	EINECS#
548-62-9	CRYSTAL VIOLET, INDICATOR	100	208-953-6

Hazard Symbols: T
Risk Phrases: 25 40 41

**** SECTION 3 - HAZARDS IDENTIFICATION ****

EMERGENCY OVERVIEW

Appearance: green.

Warning! Material is light sensitive. Harmful if swallowed. May cause eye and skin irritation. Eye contact may result in permanent eye damage. May cause respiratory and digestive tract irritation. Target Organs: None known.

Potential Health Effects

Eye: Dust may cause mechanical irritation. Eye damage may be delayed. May cause eye irritation and possible damage.

Skin: May cause skin irritation. Dust may cause mechanical irritation.

Ingestion: Harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

Inhalation: May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.

Chronic: Prolonged or repeated exposure may cause nausea, dizziness, and headache.

**** SECTION 4 - FIRST AID MEASURES ****

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion: Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation: Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician: Treat symptomatically and supportively.

**** SECTION 5 - FIRE FIGHTING MEASURES ****

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. This material in sufficient quantity and reduced particle size is capable of creating a dust explosion. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas. Containers may explode if exposed to fire.

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Extinguishing Media:

Use water spray to cool fire-exposed containers. Use water spray, dry chemical, carbon dioxide, or chemical foam.

**** SECTION 6 - ACCIDENTAL RELEASE MEASURES ****

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

**** SECTION 7 - HANDLING and STORAGE ****

Handling:

Wash hands before eating. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Keep container tightly closed. Store protected from light. Wash clothing before reuse.

Storage:

Keep away from heat, sparks, and flame. Store in a cool, dry place. Keep containers tightly closed. Store protected from light.

**** SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION ****

Engineering Controls:

Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
CRYSTAL VIOLET, INDICATOR	none listed	none listed	none listed

OSHA Vacated PELs:

CRYSTAL VIOLET, INDICATOR:
No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

**** SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ****

Physical State: Solid
Appearance: green
Odor: Odorless
pH: Not available.
Vapor Pressure: Not available.
Vapor Density: 14.1
Evaporation Rate: Not available.
Viscosity: Not available.
Boiling Point: Not available.
Freezing/Melting Point: 215 deg C dec
Autoignition Temperature: Not available.
Flash Point: Not available.
NFPA Rating: (est.) Health: 2; Flammability: 0; Reactivity: 0
Explosion Limits, Lower: N/A
Upper: N/A
Decomposition Temperature: > 215 deg C
Solubility: 16 G/L WATER (25°C)
Specific Gravity/Density:
Molecular Formula: C25H30ClN3
Molecular Weight: 407.97

**** SECTION 10 - STABILITY AND REACTIVITY ****

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Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: High temperatures, incompatible materials, light.
Incompatibilities with Other Materials: Strong oxidizing agents - strong acids.
Hazardous Decomposition Products: Hydrogen chloride, nitrogen oxides, carbon monoxide, carbon dioxide.
Hazardous Polymerization: Will not occur.

**** SECTION 11 - TOXICOLOGICAL INFORMATION ****

RTECS#: CAS# 548-62-9: B09000000
LD50/LC50: CAS# 548-62-9: Oral, mouse: LD50 = 96 mg/kg; Oral, rabbit: LD50 = 150 mg/kg; Oral, rat: LD50 = 420 mg/kg.
Carcinogenicity: CRYSTAL VIOLET, INDICATOR - Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
Epidemiology: Tumorigenic: see RTECS
Teratogenicity: No information available.
Reproductive Effects: see RTECS
Neurotoxicity: No information available.
Mutagenicity: Mutation: see RTECS
Other Studies: No data available.

**** SECTION 12 - ECOLOGICAL INFORMATION ****

**** SECTION 13 - DISPOSAL CONSIDERATIONS ****

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
RCRA P-Series: None listed.
RCRA U-Series: None listed.

**** SECTION 14 - TRANSPORT INFORMATION ****

US DOT: No information available
Canadian TDG: No information available.

**** SECTION 15 - REGULATORY INFORMATION ****

US FEDERAL
TSCA: CAS# 548-62-9 is listed on the TSCA inventory.
Health & Safety Reporting List: None of the chemicals are on the Health & Safety Reporting List.
Chemical Test Rules: None of the chemicals in this product are under a Chemical Test Rule.
Section 12b: None of the chemicals are listed under TSCA Section 12b.
TSCA Significant New Use Rule: None of the chemicals in this material have a SNUR under TSCA.
SARA
Section 302 (RQ): None of the chemicals in this material have an RQ.
Section 302 (TPQ): None of the chemicals in this product have a TPQ.
SARA Codes: CAS # 548-62-9: acute.
Section 313: No chemicals are reportable under Section 313.
Clean Air Act: This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depletors. This material does not contain any Class 2 Ozone depletors.
Clean Water Act: None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.
OSHA:

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None of the chemicals in this product are considered highly hazardous by OSHA.

STATE: CRYSTAL VIOLET, INDICATOR is not present on state lists from CA, PA, MN, MA, FL, or NJ.
California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols: T
Risk Phrases:

R 25 Toxic if swallowed.
R 40 Possible risks of irreversible effects.
R 41 Risk of serious damage to eyes.

Safety Phrases:
S 53 Avoid exposure - obtain special instructions before use.
S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 548-62-9: 2
United Kingdom Occupational Exposure Limits

Canada: CAS# 548-62-9 is listed on Canada's DSL/NDSL List. This product has a WHMIS classification of D1B. CAS# 548-62-9 is not listed on Canada's Ingredient Disclosure List.
Exposure Limits

**** SECTION 16 - ADDITIONAL INFORMATION ****

MSDS Creation Date: 5/13/1998 Revision #2 Date: 10/06/2000

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability 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 way shall the company 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 the company has been advised of the possibility of such damages.