ALLIANCE
ORGANICS LLP
Dyestuffs • Pigments • Food Colours
2 STAR EXPORT HOUSE
(GOVT. OF INDIA RECOGNISED)

16/17, 3rd Floor, Kamdhenu Industrial Estate, Mindspace,
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MATERIAL SAFETY DATA SHEET

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

1.1 Product Details

Product Name : **BASIC VIOLET 16**
CAS Number: 75535-16-9
EC number : 278-248-6

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

Relevant identified Uses of the substance:

- Paper, Silk, Acrylic fiber, Wool dyeing
- Colorant for water-base jet ink

Uses advised against (where applicable): No relevant information available

1.3 Company Identification

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SECTION 2: Hazards identification

2.1 Classification of the substance

Classification according to Regulation (EC) No : 1272/2008 i.e. CLP regulation

Acute Tox 3 (Oral)
Acute Tox 2 (Inhalation)
Eye Damage 1
Aquatic Acute 1
Aquatic Chronic 1

2.2 Label elements

Signal word: Danger
Hazard statements:

H301: Toxic if swallowed.
H330: Fatal if inhaled..
H318: Causes serious eye damage.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P273: Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312: IF SWALLOWED: Call a POISON CENTER/doctor/... if you feel unwell.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P302+P352: IF ON SKIN: Wash with plenty of water.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist. P391: Collect spillage.
P391: Collect spillage.
P501: Dispose of contents/container to an approved waste disposal plant in accordance with local/regional/national /international regulations.

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2.3 Other hazards : No further information
PBT: No data
vPvB: No data
SVHC The substance is not listed as SVHC

SECTION 3: Composition/information on ingredients
3.1 Chemical characterization:
CAS No. : 75535-16-9
Identification number(s): EC number: 278-248-6
Additional information: Molecular Formula: C23H29N2.H2O4P
Molecular Weight: 430.48
% Purity : Min. 97%

SECTION 4: First aid measures
4.1 Description of first aid measures
General information: Immediately remove any clothing soiled by the product. Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area
After inhalation: If chemical is inhaled, move person into fresh air. Keep at rest. If not breathing, give artificial respiration. Keep under medical surveillance. In case of problems: Hospitalize.
After skin contact: Remove any contaminated clothing. Wash skin with soap and water for at least 15 minutes. Get medical attention if irritation develops or persists. Wash clothing before reuse.
After eye contact: Rinse thoroughly with plenty of water for at least 15 minutes, occasionally lifting upper and lower eyelids. Consult an ophthalmologist.
After swallowing: Rinse mouth with water immediately (only if the person is conscious). Seek medical advice. Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed
Harmful, if swallowed, causes eye damage & skin corrosion
Information for doctor: Treat symptomatically and supportively.

4.3 Indication of any immediate medical attention and special treatment needed
Follow instructions given in section 4.1 in case of skin and eye contact.

SECTION 5: Firefighting measures
5.1 Extinguishing media
Suitable extinguishing media: Use fire extinguishing methods suitable to surrounding conditions. Use water spray, alcohol-resistant foam, dry chemical.
Unsuitable extinguishing media: Extinguishing media that must not be used for safety reasons: CO2
5.2 Special hazards arising from the substance
Emits toxic fumes of carbon monoxide and carbon dioxide under fire conditions.
5.3 Advice for firefighters
Protective equipment: Wear proper protective equipment & clothing to prevent contact with skin and eyes. Wear self-contained breathing apparatus.
Additional information: Prevent dust formation due to risk of dust explosion.

SECTION 6: Accidental release measures
6.1 Personal precautions, protective equipment and emergency procedures: For non-emergency personnel: Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid contact with the skin, eyes and clothing. Keep unprotected persons away. For emergency responders: Use personal protective equipment. Evacuate personnel to safe areas.
6.2 Environmental precautions: Do not allow product to reach sewage system, drains or any water course. Do not allow to penetrate the ground/soil.

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6.3 Methods and material for containment and cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel. Avoid dust formation. Keep in suitable and closed containers for disposal in accordance with applicable laws and regulations. For large spills: Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

6.4 Reference to other sections: See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling: Ensure good ventilation/exhaust at the workplace Avoid contact with skin and eyes. Avoid inhalation of dust, vapor or mist. Handle in accordance with good industrial hygiene and safety practice. Do not leave container open

Information about fire- and explosion protection: Keep ignition sources away –Do not smoke. Keep away from combustible material. Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: Store product in its original container. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Requirements to be met by storerooms and receptacles: Store product in its original container. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Further information about storage conditions: Store in cool, dry conditions in tightly-sealed receptacles; away from direct sunlight.

7.3 Specific end use(s):

Paper, Silk, Acrylic fiber, Wool dyeing
Colorant for water-base jet ink

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities: Provide exhaust ventilation or other engineering controls at machinery to keep the airborne concentrations of vapor below their respective threshold limit value. Ensure that eyewash station and safety shower is proximal to the work-station location.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace: Threshold Limit Value (TLV) value = Not available

8.2 Exposure controls

General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Respiratory protection: Suitable respiratory protective device recommended

Protection of hands: The glove material has to be impermeable and resistant to the product. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves: Chloroprene rubber, CR Nitrile rubber, NBR PVC gloves

Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Tightly sealed goggles Face shield.

Body protection: Impervious clothing, Apron ,Boots

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form: Solid, powder
Colour: Dark Blue/ Violet
Odour: No data
pH: 2.0 – 3.0

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Melting point: No melting up to 180 °C. The test item decomposed at this temperature
Boiling point: Not applicable because the substance is a solid which decomposes before boiling
Flashpoint: Not applicable because the flash point is only relevant to liquids and low melting point solids
Flammability: Not Flammable
Auto ignition temperature: 150oC at 101 325 Pa
Danger of explosion: Non explosive
Oxidizing properties: Not applicable because there are no chemical groups present in the molecule which are associated with oxidising properties
Vapour pressure: No available data
Density at 20 °C: 1.31(Relative density)
Solubility in/Miscibility with Water at 20 °C: 43 g/L
Partition coefficient(noctanol/water) at 20°C: Log Kow (Log Pow) = -2.4
Viscosity: Not applicable since the chemical is a solid

9.2 Other information: Surface tension: The surface tension of the aqueous solution at 20 °C was lower than 60 mN/m.

SECTION 10: Stability and reactivity

10.1 Reactivity: Reacts with oxidising agents, strong alkalis.

10.2 Chemical stability – Thermal decomposition/con ditions to be avoided: Stable under normal conditions of use and recommended storage conditions. Thermal decomposition: No thermal decomposition when stored and handled correctly.

10.3 Possibility of hazardous reactions: In the case of dusty organic products the possibility of a dust explosion should always be considered.

10.4 Conditions to avoid: Heat, open flames, sparks and other sources of ignition.

10.5 Incompatible materials: Strong oxidizing agents, strong acids and alkalis

10.6 Hazardous decomposition products: carbon monoxide and carbon dioxide, nitrogen & sulphur oxides (NOx) under fire conditions

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity: LD/LC50 values relevant for classification:

Oral	LD50	approximately 150 mg/kg (Female Wistar Rat)
Inhalation	LC50	53 mg/m³ air
Dermal	LD50	No available data

skin corrosion/irritation: Skin Corrosion 1B
serious eye damage/irritation: Eye Damage 1
Sensitization: Not sensitizing (modified Buehler test) - male Himalayan guinea pigs
Germ cell mutagenicity: Substance did not induce gene mutations at the HPRT locus in V79 cells.
Carcinogenicity: No available data
Reproductive toxicity: 40 mg/kg body weight/day was the no observed adverse effect level (NOAEL) for reproductive toxicity in Sprague-Dawley rats.
Developmental toxicity: 40 mg/kg body weight/day was the no observed adverse effect level (NOAEL) for developmental toxicity in the pups of Sprague-Dawley rats.
Repeated exposure: (Oral) Based on the occurrence of the histopathological findings observed in the heart of all dose levels, the NOAEL could not be determined and thus the low observed adverse effect level (LOAEL) for systemic toxicity is considered to be 40 mg/kg bw/day.
Aspiration hazard: No data

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SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:	LC50 (96 hrs) Fish	No data
	EC50 (48 hrs)	The 48h-EC50 to Daphnia magna was calculated to be 0.037 mg/L or, based on the active ingredient, 0.02 mg/L.
	ErC50 (72 hrs)	Desmodesmus subspicatus 72-h ErC10 = 0.069 mg/L and 72-h ErC50 = 0.742 mg/L.

12.2 Persistence and degradability: Basic Violet 19 is not inherently biodegradable

12.3 Bio-accumulative potential BCF (aquatic species) = 3.162 L/kg ww

12.4 Mobility in soil: Soil adsorption co-efficient = Log Koc = 6.0 indicating strong adsorption potential to the soil.
Additional ecological information: General notes: Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

12.5 Results of PBT and vPvB assessment: PBT The substance is not PBT vPvB The substance is not vPvB

12.6 Other adverse effects: No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation The generation of waste should be avoided or minimized wherever possible. Incinerate According to applicable local, state and federal regulations.
European waste catalogue: 07 03: Wastes from the Manufacture, Formulation, Supply and Use (MFSU) of organic dyes and pigments.
Un-cleaned packaging:
Contaminated packaging: Empty containers must be decontaminated before returning for recycling
Recommendation: Do not release into the environment. Destroy packaging by incineration at an approved waste disposal site in accordance with local and national regulations.

SECTION 14: Transport information

14.1 UN-Number ADR,IMDG,IATA: UN 3077

14.2 UN proper shipping name ADR IMDG,IATA: UN 3077, Environmentally hazardous substance, Solid, n.o.s. 2-[[4-[ethyl(2- hydroxyethyl)amino]phenyl]azo]-6-methoxy-3-methylbenzothiazolium methyl sulphate

14.3 Transport hazard class(es) ADR, IMDG, IATA**:** Class: 9 Label: 9

14.4 Packing group ADR,IMDG,IATA: Packing Group: III

14.5 Environmental hazards: Marine Pollutant: Yes Special marking (ADR): Symbol (fish and tree) Special marking
(IATA): Symbol (fish and tree)

14.6 Special precautions for user Notapplicable: EmS Code: F-A, S-F Environmentally hazardous substance

14.7 Transport in bulk according to Annex II of MARPOL73 /78 and the IBC Code Not applicable.
Transport: Additional Information
Transport category Tunnel restriction code: 3 E (Environmentally hazardous); Keep separated from foodstuffs, Toxic.
UN "Model Regulation" UN 3077, Environmentally hazardous substance, Solid, n.o.s. 2-[[4-[ethyl(2-hydroxyethyl)amino]phenyl]azo]-6-methoxy-3-methylbenzothiazolium methyl sulphate, 9, III

SECTION 15: Regulatory information

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

Labeling according to Regulation(EC)No 1272/2008
Hazard pictograms Please refer section 2
Signal word Please refer section 2
Hazarddetermining components of labelling: Please refer section 2
Hazard statements Please refer section 2
Precautionary statements Please refer section 2

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National regulations:

International Inventories

Canada : Canada's DSL List: Listed
US Federal (TSCA Inventory) : Listed
Australian Inventory of Chemical Substances (AICS): Listed
US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): substance - Not listed.
• China: Inventory of Existing Chemical Substances in China (IECSC) – Listed
Japan: Inventory of Existing and New Chemical Substances (ENCS) – Listed
Korea: Existing Chemicals List (ECL) – Listed
New Zealand: New Zealand Inventory – Listed
Philippines: Philippine Inventory of Chemicals and Chemical Substances(PICCS) – Listed

Substances of very high concern (SVHC) according to REACH, Article57: The substance is not listed as SVHC

15.2 Chemical safety assessment: A chemical safety assessment has not been carried out.

SECTION 16: Other information

Department issuing MSDS: Product safety department.

16 (a). Data compared to the previous version altered: Section 4: First-aid measures
Section 9: Physical and Chemical properties.
Section 16: Other Information

16 (b). Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
ADR: Accord européensur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)

16 (c). Sources

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on classification, labelling and packaging of substances and mixtures
REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

16 (d). Additional Information

The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.

The information given and the recommendations made herein apply to our product alone and not combined with other products. Such are based on our research and on data from other reliable sources and are believed to be accurate. No guarantee of accuracy is made. It is the purchasers' responsibility before using any product to verify these data under their own operating conditions and to determine if the product is suitable for their purposes.