

SAFETY DATA SHEET

CytoPhase Violet

| Section 1. Ide | ntification |
|--------------------|-------------|
| Draduat identifiar | Cuto Dhay |

| Product identifier | : CytoPhase Violet |
|--|---|
| Product code | : 425701 |
| Other means of identification | : Not available. |
| Product type | : Liquid. |
| Relevant identified uses of th | ne substance or mixture and uses advised against |
| Product use | : Research. |
| Area of application | : Industrial applications. |
| Supplier/Manufacturer | : BioLegend Inc. 9727 Pacific Heights Blvd. San Diego, CA 92121 – USA Tel: +1-858-455-9588 |
| e-mail address of person responsible for this SDS | : cs@biolegend.com |
| Emergency telephone number (with hours of operation) | : +1-858-455-9588 (7:00AM – 5:00PM PT, M-F) |

Section 2. Hazard(s) identification

Classification of the

| GHS label elements | |
|-----------------------------|--|
| Signal word | : No signal word. |
| Hazard statements | : No known significant effects or critical hazards |
| Precautionary statements | |
| Prevention | : Not applicable. |
| Response | : Not applicable. |
| Storage | : Not applicable. |
| Disposal | : Not applicable. |
| Supplemental label elements | : Not applicable. |

: Not classified.

Other hazards which do not : None known. result in classification

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Section 3. Composition and ingredient information

Substance/mixture

Other means of identification

- : Mixture
- : Not available.

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

| Description of necessa | ary first aid measures |
|-------------------------------|---|
| Eye contact | : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| Inhalation | : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| Skin contact | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| Ingestion | : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |

Most important symptoms/effects, acute and delayed

| Potential acute healt | <u>n effects</u> |
|------------------------|--|
| Eye contact | : No known significant effects or critical hazards. |
| Inhalation | : No known significant effects or critical hazards. |
| Skin contact | : No known significant effects or critical hazards. |
| Ingestion | : No known significant effects or critical hazards. |
| Over-exposure signs | /symptoms |
| Eye contact | : No specific data. |
| Inhalation | : No specific data. |
| Skin contact | : No specific data. |
| Ingestion | : No specific data. |
| Indication of immediat | e medical attention and special treatment needed, if necessary |
| Notes to physician | : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| Specific treatments | : No specific treatment. |

See toxicological information (Section 11)

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training.

Section 5. Firefighting measures

| Extinguishing media | |
|---|---|
| Suitable extinguishing media | : Use an extinguishing agent suitable for the surrounding fire. |
| Unsuitable extinguishing media | : Do not use water jet. |
| Specific hazards arising from the chemical | : In a fire or if heated, a pressure increase will occur and the container may burst. |
| Hazardous thermal decomposition products | : No specific data. |
| Special protective actions for fire-fighters | : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| Special protective equipment for fire-fighters | : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |

Section 6. Accidental release measures

| Personal precautions, protective equipment and emergency procedures | | |
|---|--|-------|
| For non-emergency personnel | o action shall be taken involving any personal risk or without suitable training. vacuate surrounding areas. Keep unnecessary and unprotected personnel fr ntering. Do not touch or walk through spilt material. Put on appropriate perso rotective equipment. | om |
| For emergency responders | specialised clothing is required to deal with the spillage, take note of any formation in Section 8 on suitable and unsuitable materials. See also the formation in "For non-emergency personnel". | |
| Environmental precautions | void dispersal of spilt material and runoff and contact with soil, waterways, dra nd sewers. Inform the relevant authorities if the product has caused environn ollution (sewers, waterways, soil or air). | |
| Methods and material for con | nent and cleaning up | |
| Small spill | top leak if without risk. Move containers from spill area. Dilute with water and o if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry aterial and place in an appropriate waste disposal container. Dispose of via a sensed waste disposal contractor. | |
| Large spill | top leak if without risk. Move containers from spill area. Prevent entry into se ater courses, basements or confined areas. Wash spillages into an effluent eatment plant or proceed as follows. Contain and collect spillage with non- ombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous and place in container for disposal according to local regulations (see Section ispose of via a licensed waste disposal contractor. Note: see Section 1 for mergency contact information and Section 13 for waste disposal. | earth |

Section 7. Handling and storage

Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8).

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Section 7. Handling and storage

| Advice on general occupational hygiene | : | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
|--|---|---|
| Conditions for safe storage, including any incompatibilities | : | Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. |

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

None.

| Appropriate engineering controls | : Good general ventilation should be sufficient to control worker exposure to airborne contaminants. |
|-------------------------------------|---|
| Environmental exposure controls | : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. |

Individual protection measures

| Hygiene measures | : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. |
|------------------------|---|
| Eye/face protection | : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. |
| Skin protection | |
| Hand protection | : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. |
| Body protection | : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| Other skin protection | : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| Respiratory protection | : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. |

Section 9. Physical and chemical properties

| Appearance | |
|--|--------------------|
| Physical state | : Liquid. [Clear.] |
| Colour | : Violet. |
| Odour | : Not available. |
| Odour threshold | : Not available. |
| рН | : Not available. |
| Melting point | : Not available. |
| Boiling point | : Not available. |
| Flash point | : Not available. |
| Evaporation rate | : Not available. |
| Flammability (solid, gas) | : Not applicable. |
| Lower and upper explosive (flammable) limits | : Not available. |
| Vapour pressure | : Not available. |
| Vapour density | : Not available. |
| Relative density | : Not available. |
| Solubility | : Not available. |
| Partition coefficient: n- octanol/water | : Not available. |
| Auto-ignition temperature | : Not available. |
| Decomposition temperature | : Not available. |
| Viscosity | : Not available. |
| Flow time (ISO 2431) | : Not available. |
| | |

Section 10. Stability and reactivity

| Reactivity | : No specific test data related to reactivity available for this product or its ingredients. |
|------------------------------------|--|
| Chemical stability | : The product is stable. |
| Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerisation will not occur. |
| Conditions to avoid | : No specific data. |
| Incompatible materials | : Reactive or incompatible with the following materials: oxidizing materials and reducing materials. |
| Hazardous decomposition products | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

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Section 11. Toxicological information

Information on toxicological effects

| Information on toxicological | | |
|--|--|---|
| Acute toxicity | | |
| Conclusion/Summary | 1 | Not available. |
| Irritation/Corrosion | | |
| Conclusion/Summary | | |
| Skin | : | Not available. |
| Eyes | : | Not available. |
| Respiratory | : | Not available. |
| Sensitisation | | |
| Conclusion/Summary | | |
| Skin | : | Not available. |
| Respiratory | : | Not available. |
| Mutagenicity | | |
| Conclusion/Summary | : | Not available. |
| Carcinogenicity | | |
| Conclusion/Summary | : | Not available. |
| Reproductive toxicity | | |
| Conclusion/Summary | : | Not available. |
| Teratogenicity | | |
| | | |
| Conclusion/Summary | | Not available. |
| Specific target organ toxicit Not available. | <u>у (</u> | <u>single exposure)</u> |
| Specific target organ toxicit | <u>у (</u> | <u>single exposure)</u> |
| Specific target organ toxicit Not available. Specific target organ toxicit Not available. | <u>у (</u> | <u>single exposure)</u> |
| Specific target organ toxicit Not available. Specific target organ toxicit Not available. Aspiration hazard | <u>у (</u> | <u>single exposure)</u> |
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| Specific target organ toxicit Not available. Specific target organ toxicit Not available. Aspiration hazard Not available. | <u>у (</u> | <u>single exposure)</u> |
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| Specific target organ toxicit Not available. Specific target organ toxicit Not available. Aspiration hazard Not available. nformation on likely routes of exposure | <mark>у (</mark> <u>у (</u> : | <u>single exposure)</u> |
| Specific target organ toxicit Not available. Specific target organ toxicit Not available. Aspiration hazard Not available. nformation on likely routes of exposure Potential acute health effects | <mark>у (</mark> <u>у (</u> : | (repeated exposure) Not available. |
| Specific target organ toxicit Not available. Specific target organ toxicit Not available. Aspiration hazard Not available. Not available. | <mark>у (</mark> <u>у (</u> : | single exposure) |
| Specific target organ toxicit Not available. Specific target organ toxicit Not available. Aspiration hazard Not available. Not available. nformation on likely routes of exposure Potential acute health effects Eye contact Inhalation | ⊻ (⊻ (: : : | Single exposure) (repeated exposure) Not available. No known significant effects or critical hazards. No known significant effects or critical hazards. |
| Specific target organ toxicit Not available. Specific target organ toxicit Not available. Aspiration hazard Not available. Not available. nformation on likely routes of exposure Potential acute health effects Eye contact Inhalation Skin contact Ingestion | y (y (: : : : | Single exposure) (repeated exposure) Not available. No known significant effects or critical hazards. |
| Specific target organ toxicit Not available. Specific target organ toxicit Not available. Aspiration hazard Not available. Not available. nformation on likely routes of exposure Potential acute health effects Eye contact Inhalation Skin contact Ingestion | y (y (: : : : : : : : | Single exposure) (repeated exposure) Not available. No known significant effects or critical hazards. |
| Specific target organ toxicit Not available. Specific target organ toxicit Not available. Aspiration hazard Not available. Not available. nformation on likely routes of exposure Potential acute health effects Eye contact Inhalation Skin contact Ingestion | <mark>y (</mark> y (: : : : : : : | Single exposure) (repeated exposure) Not available. No known significant effects or critical hazards. So known significant effects or critical hazards. |
| Specific target organ toxicit Not available. Specific target organ toxicit Not available. Aspiration hazard Not available. Not available. Information on likely routes of exposure Potential acute health effects Eye contact Inhalation Skin contact Ingestion Symptoms related to the phy Eye contact | <mark>y (</mark> <u>y (</u> : : : : : : : : | Single exposure) (repeated exposure) Not available. No known significant effects or critical hazards. |

| Delayed and immediate effe | ects as well as chronic effects from short and long-term exposure |
|--------------------------------|---|
| Short term exposure | |
| Potential immediate effects | : Not available. |

Date of issue/Date of revision

Date of previous issue

: No previous validation

Section 11. Toxicological information

| | | - | | |
|----------------------------------|---|---|--|--|
| Potential delayed effects | 1 | Not available. | | |
| Long term exposure | | | | |
| Potential immediate effects | : | Not available. | | |
| Potential delayed effects | 1 | Not available. | | |
| Potential chronic health effects | | | | |
| Not available. | | | | |
| General | : | No known significant effects or critical hazards. | | |
| Carcinogenicity | : | No known significant effects or critical hazards. | | |
| Mutagenicity | : | No known significant effects or critical hazards. | | |
| Teratogenicity | : | No known significant effects or critical hazards. | | |
| Developmental effects | : | No known significant effects or critical hazards. | | |
| Fertility effects | : | No known significant effects or critical hazards. | | |
| | | | | |

Numerical measures of toxicity

Acute toxicity estimates

Not available.

| Section 12. Ecological information | | |
|--|---|--|
| Toxicity | | |
| Conclusion/Summary | : Not available. | |
| Persistence and degradat | <u>bility</u> | |
| Conclusion/Summary | : Not available. | |
| Bioaccumulative potentia | L | |
| Not available. | | |
| Mobility in soil | | |
| Soil/water partition coefficient (Koc) | : Not available. | |
| Other adverse effects | : No known significant effects or critical hazards. | |

Section 13. Disposal considerations

| Disposal methods | : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. |
|------------------|---|
| | |

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Section 14. Transport information

| | ADG | ADR/RID | IMDG | ΙΑΤΑ |
|-------------------------------|----------------|----------------|----------------|----------------|
| UN number | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| UN proper shipping name | - | - | - | - |
| Transport hazard class(es) | - | - | - | - |
| Packing group | - | - | - | - |
| Environmental hazards | No. | No. | No. | No. |
| Additional information | - | - | - | - |

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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Transport in bulk according : Not available. to Annex II of Marpol and the IBC Code

Section 15. Regulatory information

Standard Uniform Schedule of Medicine and Poisons

Not regulated.

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

: Not determined. Australia inventory (AICS)

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants Not listed.

Rotterdam Convention on Prior Informed Consent (PIC) Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals Not listed.

Section 16. Any other relevant information

| <u>History</u> | |
|--------------------------------|--|
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| Version | : 1 |
| Prepared by | : Sphera Solutions |
| Key to abbreviations | ADG = Australian Dangerous Goods ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) NOHSC = National Occupational Health and Safety Commission SUSMP = Standard Uniform Schedule of Medicine and Poisons UN = United Nations |

Procedure used to derive the classification

| Classification | | Justification | |
|-----------------|--|---|--|
| Not classified. | | | |
| References | Preparation of Safety Data Work Australia | Regulations 2011, as ammended a Sheets for Hazardous Chemicals, Code of Practice, Safe ransport of Dangerous Goods by Road and Rail (ADG), hission | |

✓ Indicates information that has changed from previously issued version.

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