

Material Safety Data Sheet

1. IDENTIFICATION

Product Name	Optical Brightener CBS-X
Other Names	4,4'-Bis(2-sulfostyryl)biphenyl, disodium salt; Benzenesulfonic acid, 2,2'-([1,1'-biphenyl]-4,4'-diyldi-2,1-ethenediyl)bis-, disodium salt; Sodium salt of 4,4'-Bis (2-Disulfonic Acid Styryl) Biphenyl
Use	detergent,coating,wash powder whitening
Chemical Family	No Data Available
Chemical Formula	C28H20Na2O6S2
Chemical Name	Optical Brightener CBS-X
Product Description	No Data Available

Contact Details of the Supplier of this Safety Data Sheet

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2. HAZARD IDENTIFICATION

Poisons Schedule (Aust)

Globally Harmonised System

Hazard Classification Hazardous according to the criteria of the Globally Harmonised System of Chemicals (GHS)

Hazard Categories Serious Eye Damage/Irritation - Category 2A

Signal Word Warning

Hazard Statements H319 Causes serious eye irritation.

Precautionary Statements Prevention P264 Wash hands thoroughly after handling.
P280 Wear eye protection/face protection.

Response P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/attention.

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
4,4'-Bis (2-Disulfonic Acid Styryl) Biphenyl	No Data Available	27344-41-8	99.0 - 99.8 %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed Immediately rinse mouth and then drink 200-300ml of water, seek medical attention.

Eye Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye

	specialist.
Skin medical attention.	Wash thoroughly with soap and water. Do not use organic solvents in case of dermatitis, seek
Inhaled	Keep patient calm, remove to fresh air, seek medical attention.
Advice to Doctor	Treat symptomatically based on judgement of doctor and individual reactions of patient.
Medical Conditions Aggravated by Exposure	No information available on medical conditions which are aggravated from exposure to this product.

5. FIRE FIGHTING MEASURES

General Measures	Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas.
Eliminate ignition sources.	Move fire exposed containers from fire area if it can be done without risk.
Flammability Conditions	Combustible solid
Extinguishing Media	Use water spray, foam, dry powder, carbon dioxide. Do NOT use water jet.
Fire and Explosion Hazard	Product is a non-flammable solid.
Hazardous Products of Combustion	Carbon oxides, sulfur oxides.
Special Fire Fighting Instructions	Do NOT allow fire fighting water to reach waterways, drains or sewers. Store fire fighting water for treatment.
Personal Protective Equipment and protective fire fighting	Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) clothing (includes fire fighting helmet, coat, trousers, boots and gloves).
Flash Point	200 °C
Lower Explosion Limit	No Data Available
Upper Explosion Limit	No Data Available
Auto Ignition Temperature	315 °C
Hazchem Code	No Data Available

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure	Avoid accidents, clean up immediately. Slippery when spilt. Eliminate all sources of ignition. Increase ventilation.
Clean Up Procedures	Avoid generating dust. Stop leak if safe to do so. Isolate the danger area. Use clean, non-sparking tools and equipment.
Containment	Contain and sweep/shovel up spills with dust binding material or use an industrial vacuum cleaner. Transfer to a suitable, labelled container and hold for safe disposal. Once pick up is complete, flush spill site with plenty of water to eliminate any residue. Hold contaminated water for disposal.
Environmental Precautionary Measures	Do NOT let product reach drains or waterways. If product does enter a waterway, advise the Environmental Protection Authority or your local Waste Management.
Evacuation Criteria	Evacuate all unnecessary personnel.
Personal Precautionary Measures	Personnel involved in the clean up should wear full protective clothing as listed in section 8.

7. HANDLING AND STORAGE

Handling hygiene practices and	Ensure an eye bath and safety shower are available and ready for use. Observe good personal recommended procedures. Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment. Avoid contact with eyes, skin and clothing. Do not inhale product dust/fumes.
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Storage	Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use.
Inspect regularly for incompatible materials as not classified	deficiencies such as damage or leaks. Protect against physical damage. Store away from listed in section 10. Keep away from food and drink. Store at room temperature. This product is dangerous for transport according to The Australian Code for the Transport of Dangerous Goods By Road and Rail.
Container	Store in original packaging as approved by manufacturer.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General Compensation Council inspirable dust) and	No exposure standard has been established for this product by the Australian Safety and (ASCC). However, the exposure standard for dust not otherwise specified is 10mg/m ³ (for 3mg/m ³ (for respirable dust).
Exposure Limits	No Data Available
Biological Limits	No information available on biological limit values for this product.
Engineering Measures low as possible. Local contaminant at its source,	A system of local and/or general exhaust is recommended to keep employee exposures as exhaust ventilation is generally preferred because it can control the emissions of the preventing dispersion of it into the general work area.
Personal Protection Equipment	RESPIRATOR: Wear a P1 or P2 particulate respirator when handling this product (AS1715/1716). EYES: Suitable goggles or face protection (AS1336/1337). HANDS: Suitable gloves (AS2161). CLOTHING: Long-sleeved protective overalls and safety footwear (AS3765/2210).
Work Hygienic Practices	No Data Available

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	Crystalline Powder
Odour	None
Colour	Yellowish Green
pH	Neutral
Vapour Pressure	No Data Available
Relative Vapour Density	No Data Available
Boiling Point	No Data Available
Melting Point	>300 °C
Freezing Point	No Data Available
Solubility	25 g/L 20°C
Specific Gravity	1.414 g/cm ³
Flash Point	200 °C
Auto Ignition Temp	315 °C
Evaporation Rate	No Data Available
Bulk Density	No Data Available
Corrosion Rate	No Data Available
Decomposition Temperature	No Data Available
Density	No Data Available
Specific Heat	No Data Available
Molecular Weight	562.56
Net Propellant Weight	No Data Available
Octanol Water Coefficient	No Data Available
Particle Size	No Data Available
Partition Coefficient	No Data Available
Saturated Vapour Concentration	No Data Available
Vapour Temperature	No Data Available

Viscosity	No Data Available
Volatile Percent	No Data Available
VOC Volume	No Data Available
Additional Characteristics	No Data Available
Potential for Dust Explosion	Avoid dust formation. Take precautionary measures against static discharges.
Fast or Intensely Burning Characteristics	No Data Available
Flame Propagation or Burning	No Data Available
Rate of Solid Materials Non-Flammables That Could Contribute Unusual Hazards to a Fire	No Data Available
Properties That May Initiate or Contribute to Fire Intensity	No Data Available
Reactions That Release Gases or Vapours	No Data Available
Release of Invisible Flammable Vapours and Gases	No Data Available

10. STABILITY AND REACTIVITY

Chemical Stability	Product is stable under normal conditions of use, storage and temperature.
Conditions to Avoid	Avoid static discharges.
Materials to Avoid	Incompatible with strong acids, strong bases, strong oxidising agents.
Hazardous Decomposition Products	Thermal decomposition or burning may release oxides of carbon and other toxic gases or vapours.
Hazardous Polymerisation	Has not been reported.

11. TOXICOLOGICAL INFORMATION

General Information	Oral LD50 Rat: >2000 mg/Kg bw Dermal LD50, Rabbit >2000 mg/kg bw
Eye/Irritant	Causes serious eye irritation.
Carcinogen Category	No Data Available

12. ECOLOGICAL INFORMATION

Ecotoxicity	Acute toxicity :
Persistence/Degradability	Under test, no bio degradation observed.
Mobility	Practically insoluble in water.
Environmental Fate	Do NOT let product reach waterways, drains and sewers.
Bioaccumulation Potential	BCF <1, concentrations in fish were lower than in water in every single case.
Environmental Impact	No Data Available

13. DISPOSAL CONSIDERATIONS

General Information should be disposed of in	Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in accordance with Local, State and Federal Regulations or recycled/reconditioned at an approved facility.
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Special Precautions for Land Fill Contact a specialist disposal company or the local waste regulator for advice.

14. TRANSPORT INFORMATION

Land Transport (Australia)

ADG Code

Proper Shipping Name	Optical Brightener CBS-X
Class	C2 Combustible Liquids - Flash point > 150 °C
Subsidiary Risk(s)	No Data Available No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available

Land Transport (Malaysia)

ADR

Proper Shipping Name	Optical Brightener CBS-X
Class	No Data Available
Subsidiary Risk(s)	No Data Available No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available

Land Transport (New Zealand)

NZS5433

Proper Shipping Name	Optical Brightener CBS-X
Class	No Data Available
Subsidiary Risk(s)	No Data Available No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available

Land Transport (United States of America)

US DOT

Proper Shipping Name	Optical Brightener CBS-X
Class	No Data Available
Subsidiary Risk(s)	No Data Available No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available

Sea Transport

IMDG Code

Proper Shipping Name	Optical Brightener CBS-X
Class	No Data Available
Subsidiary Risk(s)	No Data Available

UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
EMS	No Data Available
Marine Pollutant	No Data Available

Air Transport
IATA DGR

Proper Shipping Name	Optical Brightener CBS-X
Class	No Data Available
Subsidiary Risk(s)	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available

National Transport Commission (Australia)
Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification Transport of Dangerous	NOT Dangerous Goods according to the criteria of the Australian Code for the Goods by Road & Rail (ADG Code)
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15. REGULATORY INFORMATION

General Information	No Data Available
Poisons Schedule (Aust)	Not scheduled

Environmental Protection Authority (New Zealand)
Hazardous Substances and New Organisms Amendment Act 2015

Approval Code	Not Assessed
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National/Regional Inventories

Australia (AICS)	Listed
Canada (DSL)	Not Determined
Canada (NDSL)	Not Determined
China (IECSC)	Not Determined
Europe (EINECS)	248-421-0
Europe (REACH)	Not Determined
Japan (ENCS/METI)	Not Determined
Korea (KECI)	Not Determined
Malaysia (EHS Register)	Not Determined
New Zealand (NZIoC)	Listed
Philippines (PICCS)	Not Determined
Switzerland (Giftliste 1)	Not Determined
Switzerland (Inventory of Notified Substances)	Not Determined

Taiwan (NCSR) Not Determined

USA (TSCA) Not Determined

16. OTHER INFORMATION

Key/Legend

< Less Than
> Greater Than
AICS Australian Inventory of Chemical Substances
atm Atmosphere
CAS Chemical Abstracts Service (Registry Number)
cm² Square Centimetres
CO₂ Carbon Dioxide
COD Chemical Oxygen Demand
deg C (°C) Degrees Celcius
EPA (New Zealand) Environmental Protection Authority of New Zealand
deg F (°F) Degrees Farenheit
g Grams
g/cm³ Grams per Cubic Centimetre
g/l Grams per Litre
HSNO Hazardous Substance and New Organism
IDLH Immediately Dangerous to Life and Health
immiscible Liquids are insoluable in each other.
inHg Inch of Mercury
inH₂O Inch of Water
K Kelvin
kg Kilogram
kg/m³ Kilograms per Cubic Metre
lb Pound
LC₅₀ LC stands for lethal concentration. LC₅₀ is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.
LD₅₀ LD stands for Lethal Dose. LD₅₀ is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.
ltr or L Litre
m³ Cubic Metre
mbar Millibar
mg Milligram
mg/24H Milligrams per 24 Hours
mg/kg Milligrams per Kilogram
mg/m³ Milligrams per Cubic Metre
Misc or Miscible Liquids form one homogeneous liquid phase regardless of the amount of either component present.
mm Millimetre
mmH₂O Millimetres of Water
mPa.s Millipascals per Second
N/A Not Applicable
NIOSH National Institute for Occupational Safety and Health
NOHSC National Occupational Heath and Safety Commission
OECD Organisation for Economic Co-operation and Development
Oz Ounce
PEL Permissible Exposure Limit
Pa Pascal
ppb Parts per Billion
ppm Parts per Million
ppm/2h Parts per Million per 2 Hours
ppm/6h Parts per Million per 6 Hours
psi Pounds per Square Inch
R Rankine
RCP Reciprocal Calculation Procedure
STEL Short Term Exposure Limit

TLV Threshold Limit Value
tne Tonne
TWA Time Weighted Average
ug/24H Micrograms per 24 Hours
UN United Nations
wt Weight