

HC BLUE 2

Company Information

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Product Identification

【Product Name】

2,2'-((4-((2-Hydroxyethyl)amino)-3-nitrophenyl)imino)bisethanol

【Synonyms】

2,2'-((4-((2-Hydroxyethyl)amino)-3-nitrophenyl)imino)bisethanol

2-[[4-(Bis(2-hydroxyethyl)amino)-2-nitrophenyl]amino]ethano

【CAS】

[33229-34-4](#)

【Formula】

C₁₂H₁₉N₃O₅

【Molecular Weight】

285.29000000000002

【EINECS】

251-410-3

【RTECS】

KL2880000

【RTECS Class】

Tumorigen; Mutagen

【Beilstein/Gmelin】

2148848

Physical and Chemical Properties

【Appearance】

Dark blue to dark brown microcrystalline powder.

【Solubility in water】

soluble

【Melting Point】

93-98

【Usage】

Hc blue #2 is used exclusively as a dye in semi-permanent hair coloring products. The concentration of hc blue #2 used in these preparations ranges from 1.6-2%.

First Aid Measures

【Ingestion】

DO NOT INDUCE VOMITING. If the victim is conscious and not convulsing, give 1 or 2 glasses of water to dilute the chemical and IMMEDIATELY call a hospital or poison control center. Be prepared to transport the victim to a hospital if advised by a physician.

【Inhalation】

IMMEDIATELY leave the contaminated area; take deep breaths of fresh air. If symptoms (such as wheezing, coughing, shortness of breath, or burning in the mouth, throat, or chest) develop, call a physician and be prepared to transport the victim to a hospital. Provide proper respiratory protection to rescuers entering an unknown atmosphere. Whenever possible, Self-Contained Breathing Apparatus (SCBA) should be used.

【Skin】

IMMEDIATELY flood affected skin with water while removing and isolating all contaminated clothing. Gently wash all affected skin areas thoroughly with soap and water. If symptoms such as redness or irritation develop, IMMEDIATELY call a physician and be prepared to transport the victim to a hospital for treatment.

【Eyes】

First check the victim for contact lenses and remove if present. Flush victim's eyes with water or normal saline solution for 20 to 30 minutes while simultaneously calling a hospital or poison control center. Do not put any ointments, oils, or medication in the victim's eyes without specific instructions from a physician. IMMEDIATELY transport the victim after flushing eyes to a hospital even if no symptoms (such as redness or irritation) develop.

Handling and Storage

【Storage】

Keep in a cool, dry, dark location in a tightly sealed container or cylinder. Keep away from incompatible materials, ignition sources and untrained individuals. Secure and label area. Protect containers/cylinders from physical damage.

【Handling】

All chemicals should be considered hazardous. Avoid direct physical contact. Use appropriate, approved safety equipment. Untrained individuals should not handle this chemical or its container. Handling should occur in a chemical fume hood.

Hazards Identification

【Ingestion】

See inhalation.

【Inhalation】

Symptoms of exposure to this compound may include eye inflammation and dermatitis. Exposure to this type of compound can cause irritation or injury to corneas, conjunctiva and lids, and ocular injuries.

【Skin】

See inhalation.

【Eyes】

See inhalation

Exposure Controls/Personal Protection

【Personal Protection】

Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. Wear chemical resistant gloves. To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

【Respirators】

Wear a NIOSH-approved half face respirator equipped with an organic vapor/acid gas cartridge (specific for organic vapors, HCl, acid gas and SO₂) with a dust/mist filter.

Fire Fighting Measures

【Fire Fighting】

Fires involving this material can be controlled with a dry chemical, carbon dioxide or Halon extinguisher.

【Fire Potential】

This material is probably combustible.

Accidental Release Measures

【Small spills/leaks】

Should a spill occur while you are handling this chemical, FIRST REMOVE ALL SOURCES OF IGNITION, then you should dampen the solid spill material with 60-70% ethanol and transfer the dampened material to a suitable container. Use absorbent paper dampened with 60-70% ethanol to pick up any remaining material. Seal the absorbent paper, and any of your clothes, which may be contaminated, in a vapor-tight plastic bag for eventual disposal. Solvent wash all contaminated surfaces with 60-70% ethanol followed by washing with a soap and water solution. Do not reenter the contaminated area until the Safety Officer (or other responsible person) has verified that the area has been properly cleaned.

Stability and Reactivity

【Incompatibilities】

Incompatible with isocyanates, halogenated organics, peroxides, phenols (acidic), epoxides, anhydrides, and acid halides Flammable gaseous hydrogen is generated in combination with strong reducing agents, such as hydrides Flammable and/or toxic gases are generated by combination with with alkali metals, nitrides, and strong reducing agents Reacts with oxoacids and carboxylic acids to form esters plus water Incompatible with oxidizing agents.

【Stability】

No data.