SIGMA-ALDRICH

Material Safety Data Sheet

Version 3.0 Revision Date 12/30/2008 Print Date 02/08/2011

Product name	 Dihydrogen (ethyl)[4-[4-[ethyl(3- sulphonatobenzyl)amino](4-hydroxy-2- sulphonatoben zhydrylidene]cyclohexa-2,5-dien-1- ylidene](3-sulphonatobenzyl)ammonium, disodium salt 			
Product Number Brand	: 861154 : Aldrich			
Company	: Sigma-Aldrich 3050 Spruce Stree SAINT LOUIS MO USA			
Telephone : +18003255832 Fax : +18003255052 Emergency Phone # : (314) 776-6555				
OMPOSITION/INFORMATIC	N ON INGREDIENTS			
Formula Molecular Weight	: C37H34N2Na2O1 : 808.86 g/mol	0\$3		
CAS-No.	EC-No.	Index-No.	Concentration	
	=•	Index-NO.	Concentration	
Dihydrogen (ethyl)[4-[4-[e	thyl(3-sulphonatobenz	yl)amino](4-hydroxy-2-s		
zhydrylidene]cyclohexa-2	thyl(3-sulphonatobenz ,5-dien-1-ylidene](3-su	yl)amino](4-hydroxy-2-s		
	thyl(3-sulphonatobenz	yl)amino](4-hydroxy-2-s	ulphonatoben	_
zhydrylidene]cyclohexa-2 2353-45-9 AZARDS IDENTIFICATION Emergency Overview OSHA Hazards	thyl(3-sulphonatobenz ,5-dien-1-ylidene](3-su	yl)amino](4-hydroxy-2-s	ulphonatoben	
zhydrylidene]cyclohexa-2 2353-45-9 AZARDS IDENTIFICATION Emergency Overview	thyl(3-sulphonatobenz ,5-dien-1-ylidene](3-su	yl)amino](4-hydroxy-2-s	ulphonatoben	

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Ingestion	May be harmful if swallowed.

4. FIRST AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES

Flammable properties

Flash point

no data available

Ignition temperature no data available

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

Environmental precautions

Do not let product enter drains.

Methods for cleaning up

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Handling

Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Storage

Keep container tightly closed in a dry and well-ventilated place.

hygroscopic

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves.

Eye protection

Safety glasses

Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	solid			
Colour	dark red			
Safety data				
рН	no data available			
Melting point	290 °C (554 °F)			
Boiling point	no data available			
Flash point	no data available			
Ignition temperature	no data available			
Lower explosion limit	no data available			
Upper explosion limit	no data available			
Water solubility	no data available			

10. STABILITY AND REACTIVITY

Storage stability

Stable under recommended storage conditions.

Materials to avoid

Strong oxidizing agents

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Sulphur oxides, Sodium oxides

11. TOXICOLOGICAL INFORMATION

Aldrich - 861154

Acute toxicity

LD50 Oral - rat - > 2,000 mg/kg

Irritation and corrosion

no data available

Sensitisation

no data available

Chronic exposure

Carcinogenicity - rat - Subcutaneous Tumorigenic:Neoplastic by RTECS criteria. Tumorigenic:Tumors at site or application.

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC:	Group 3 - Not classifiable as to carcinogenicity to humans (Dihydrogen (ethyl)[4-[4-[ethyl(3-
	sulphonatobenzyl)amino](4-hydroxy-2-sulphonatoben zhydrylidene]cyclohexa-2,5-dien-1-
	ylidene](3-sulp)

- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Genotoxicity in vitro - Histidine reversion (Ames)

Genotoxicity in vitro - Hamster - fibroblast Cytogenetic analysis

Genotoxicity in vivo - mouse - Intraperitoneal Micronucleus test

Genotoxicity in vivo - mouse - Intraperitoneal Sister chromatid exchange

Laboratory experiments have shown mutagenic effects.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Potential Health Effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Ingestion	May be harmful if swallowed.

Additional Information RTECS: BQ4425000

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

no data available

Ecotoxicity effects

no data available

Further information on ecology

no data available

13. DISPOSAL CONSIDERATIONS

Product

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

15. REGULATORY INFORMATION

OSHA Hazards

Mutagen

DSL Status

All components of this product are on the Canadian DSL list.

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Chronic Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components		
	CAS-No.	Revision Date
Dihydrogen (ethyl)[4-[4-[ethyl(3-sulphonatobenzyl)amino](4-hydroxy-2- sulphonatoben zhydrylidene]cyclohexa-2,5-dien-1-ylidene](3-sulp	2353-45-9	
New Jersey Right To Know Components		
Dihydrogen (ethyl)[4-[4-[ethyl(3-sulphonatobenzyl)amino](4-hydroxy-2-	CAS-No. 2353-45-9	Revision Date

sulphonatoben zhydrylidene]cyclohexa-2,5-dien-1-ylidene](3-sulp

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

16. OTHER INFORMATION

Further information

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