



杭州大阳化工有限公司
Hangzhou Dayangchem Co., Ltd.

Safety Data Sheet

No :M-5719

Section 1 - Product and Company Identification

MSDS Name: N4-ethyl-N4-(2'-methanesulfonamidoethyl)-2-methyl-1,4-phenylenediamine sesquisulfate, 1-hydrate

Synonyms: N-(2-(4-amino-N-ethyl-m-toluidino)ethyl)methanesulphonamide sesquisulphate

Company Identification: Hangzhou Dayangchem Co., Ltd.

For information, call: 86-571-88938639

For information,E-mail: infores@chinadayangchem.com

Emergency Number: 86-571-88938639

For CHEMTREC assistance, call: 86-571-88938639; FAX:86-571-88938652

Section 2 – Hazards Identification

Classification of the substance or mixture

According to Regulation (EC) No 1272/2008

Acute Tox. 4 *

Skin Sens. 1

Aquatic Acute 1

Aquatic Chronic 1

Label elements

Pictogram



Signal word Warning

Hazard statement(s)

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

Hazard symbol(s)

T,N,Xn

R-phrases(s)

R25 Toxic if swallowed

R36/37/38 Irritating to eyes, respiratory system and skin

R43 Irritating to eyes, respiratory system and skin

R50/53 Very Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R22 Harmful if swallowed

R34 Causes burns

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed

S-phrases(s)

S36/37 Wear suitable protective clothing and gloves.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S45 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S61 Avoid release to the environment. Refer to special instructions safety data sheet

S60 This material and/or its container must be disposed of as hazardous waste

S37 Wear suitable gloves

S24 Avoid contact with skin

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection

S27 Take off immediately all contaminated clothing

Other hazards-none

Section 3 – Composition/Information on Ingredients

CAS#	Chemical Name	%	EINECS#
25646-71-3	N4-ethyl-N4-(2'-methanesulfonamidoethyl)-2-methyl-1,4-phenylenediamine sesquisulfate, 1-hydrate	99	247-161-5

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Get medical aid immediately. Wash mouth out with water.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

Handling: Directions for Safe Handling: Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

Storage: Store in a cool, dry place. Store in a tightly closed container.

Section 8 - Exposure Controls, Personal Protection

Contains no substances with occupational exposure limit values.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Powder.

Color: white.

Odor: Not available.

pH: Not available.

Vapor Pressure: 2.88E-16mmHg at 25° C

Boiling Point: 620.7°C at 760 mmHg

Freezing/Melting Point: Not available.

Autoignition Temperature: Not available.

Flash Point: 329.2° C

Explosion Limits:Lower: Not available.

Explosion Limits Upper: Not available.

Decomposition Temperature: Not available.

Solubility in water: Not available.

Specific Gravity/Density: Not available.

Bulk density (kg/m3): Not available.

Molecular Formula: C₁₂H₂₁N₃O₂S · 1.5H₂O₄S

Molecular Weight: 418.5

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials.

Incompatibilities with Other Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon oxides, nitrogen oxides (NO_x), Sulphur oxides

Section 11 - Toxicological Information

RTECS#: CAS# 25646-71-3: PB0431000

LD50/LC50: RTECS: LD50 Oral Rat 152,000000 mg/kg

Carcinogenicity: N4-ethyl-N4-(2'-methanesulfonamidoethyl)-2-methyl-1,4-phenylenediamine sesquisulfate, 1-hydrate- Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Potential health effects

Inhalation Material is irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.

Ingestion Toxic if swallowed.

Skin May be harmful if absorbed through skin. Causes skin irritation.

Eyes Causes eye irritation.

Section 12 - Ecological Information

Not available.

Section 13 - Disposal Considerations

Product: Observe all federal, state, and local environmental regulations.

Contaminated packaging: Dispose of as unused product.

Section 14 - Transport Information

	IMO	RID/ADR	IATA
Shipping Name:	Toxic solid, organic, n.o.s.	Toxic solid, organic, n.o.s.	Toxic solid, organic, n.o.s.
Hazard Class:	6.1	6.1	6.1
UN Number:	2811	2811	2811
Packing Group:	III	III	III
marine pollutant: Not available.			
other applicable information: Not available.			

Section 15 - Regulatory Information

This safety data sheet complies with the requirements of Regulation (EC) No 1907/2006

Section 16 - Other Information

SDS Creation Date: 23/09/2011

Revision #1 Date: 29/08/2012

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.