

MANUS AKTTEVA

An ISO 9001:2000 Certified Company

Material Safety Data Sheet

4-[4-Dimethyl amino)-1-(4'-fluoro phenyl)-1-hydroxybutyl-3-(hydroxy Methyl)-benzotrile hydro bromide

Section 1 - Chemical Product and Company Identification

PRODUCT NAME: 4-[4-Dimethyl amino)-1-(4'-fluoro phenyl)-1-hydroxybutyl-3-(hydroxy Methyl)-benzotrile hydro bromide
Molecular weight : 423.32
Molecular Formula : C₂₀H₂₄BrFN₂O₂
Cas No: 103146-26-5
Material Use: Intermediate for Escitalopram Oxalate.

Contact Information:

MANUS AKTTEVA
303, 3rd Floor, Royale Manor, Law Garden,
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Gujarat, India.
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Section 2. Composition/information on ingredients

Composition:

Name	CAS #
4-[4-Dimethyl amino)-1-(4'-fluoro phenyl)-1-hydroxybutyl-3-(hydroxy Methyl)-benzotrile hydro bromide	103146-26-5

Section3. Hazards identification, including

EMERGENCY OVERVIEW

Appearance: white solid.

Caution! May cause eye, skin, and respiratory tract irritation. The toxicological properties of this material have not been fully investigated.

Target Organs: No data found.

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation.

Ingestion: May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated.

Inhalation: May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.

Chronic: No information found.

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Section 4. First aid measures

Eyes: 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. Wash clothing before reuse.

Ingestion: Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. 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. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media: Use agent most appropriate to extinguish fire. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Flash Point: Not applicable.

Autoignition Temperature: Not applicable.

Explosion Limits, Lower: Not available.

Upper: Not available.

NFPA Rating: (estimated) Health: 1; Flammability: 0; Instability: 0

Section 6. Accidental release measures

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

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

Section 7. Handling and storage

Handling: Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep in tightly closed container. Store at 25°C excursion permitted to 15-35°C. Avoid exposure to excessively warm temperatures and moisture.

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Section 8. Exposure controls/personal protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
4-[4-Dimethyl amino)-1-(4'-fluoro phenyl)-1-hydroxybutyl-3-(hydroxy methyl)-benzonnitrile hydrobromide	none listed	none listed	none listed

OSHA Vacated PELs: 4-[4-Dimethyl amino)-1-(4'-fluoro phenyl)-1-hydroxybutyl-3-(hydroxy methyl)-benzonnitrile hydrobromide: No OSHA Vacated PELs are listed for this chemical.

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: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Section 9. Physical and chemical properties

Physical State: Solid

Appearance: A Pale yellow to an off-white colored powder

Odor: odorless

pH: Not available.

Vapor Pressure: Not available.

Vapor Density: Not available.

Evaporation Rate: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: 198.0°C – 208.0°C

Decomposition Temperature: Not available.

Solubility: Soluble in methanol

Specific Gravity/Density: Not available.

Molecular weight : 423.32

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Section 10. Stability and reactivity

Chemical Stability: Stable at room temperature in closed containers under normal storage and handling conditions.

Conditions to Avoid: Dust generation.

Incompatibilities with Other Materials: Strong oxidizing agents, excessive heat.

Hazardous Decomposition Products: Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.

Hazardous Polymerization: Has not been reported

Section 11. Toxicological information

RTECS#:

CAS# 103146-26-5 unlisted.

LD50/LC50:Not available.

Carcinogenicity:CAS# 103146-26-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Effects of Acute Exposure: Data not available

Effects of Chronic Exposure: Data not available

Irritancy of Product: Data not available

Skin Sensitization: Data not available

Respiratory Sensitization: Data not available

Carcinogenicity-IARC : Data not available

Carcinogenicity – ACGIH: Data not available

Reproductive Toxicity: Data not available

Teratogenicity: Data not available

Embryotoxicity: Data not available

Mutagenicity: Data not available

Name of Synergistic Products / Effects: Data not available

Section 12. Ecological information

No information is available about the potential of this product to produce adverse environmental affects.

Section 13. Disposal considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: **None listed.**

RCRA U-Series: **None listed.**

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Section 14. Transport information

Special Shipping Information: It has no known significant hazards requiring special packaging or labeling for shipping purpose.

	US DOT	Canada TDG
Shipping Name:	Not regulated as a hazardous material	No information available.
Hazard Class:	-	-
UN Number:	-	-
Packing Group:	-	-

Section 15. Regulatory information

US FEDERAL

TSCA

CAS# 103146-26-5 is not listed on the TSCA inventory.

Health & Safety Reporting List None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules None of the chemicals in this product are under a Chemical Test Rule.

Section 12b None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances None of the chemicals in this product have a TPQ.

Section 313 No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 103146-26-5 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

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European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available.

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

S 37 Wear suitable gloves.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 28A after contact with skin wash immediately with plenty of water

WGK (Water Danger/Protection)

CAS# 103146-26-5: No information available.

Canada - DSL/NDSL

CAS# 103146-26-5 is listed on Canada's NDSL List.

Canada - WHMIS

WHMIS: Not available.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List

Section 16. Other information

The information above is believed to be accurate and represents the best information currently available to us. However, **MANUS AKTTEVA** 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 way shall **MANUS AKTTEVA** 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.

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