

Material Safety Data Sheet

4-Methoxyphenol, 99%

ACC# 73639

Section 1 - Chemical Product and Company Identification

MSDS Name: 4-Methoxyphenol, 99%

Catalog Numbers: AC126000010, AC126000050, AC126001000, AC126005000, AC9477040, AC9529803, AC1260010 AC1260010

Synonyms: m-Hydroxyanisole; Hydroquinone monomethyl ether; p-Methoxyphenol; Monomethyl ether hydroquinone.

Company Identification:

Acros Organics N.V.

One Reagent Lane

Fair Lawn, NJ 07410

For information in North America, call: 800-ACROS-01

For emergencies in the US, call CHEMTREC: 800-424-9300

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
150-76-5	4-Methoxyphenol	99	205-769-8

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: white solid.

Warning! May cause severe eye irritation and possible injury. Harmful if swallowed, inhaled, or absorbed through the skin. May cause allergic skin reaction. May cause skin and respiratory tract irritation. Hygroscopic (absorbs moisture from the air).

Target Organs: Liver, eyes, skin.

Potential Health Effects

Eye: Causes eye irritation. May result in corneal injury. May cause eye burns. May cause eye injury. Causes redness and pain.

Skin: Harmful if absorbed through the skin. May be absorbed through damaged or abraded skin in harmful amounts. May cause skin burns. May cause reddening of the skin. If absorbed, may cause central nervous system effects. May cause depigmentation of the skin. Produces primary irritant dermatitis, sensitization dermatitis, and skin ulcerations.

Ingestion: Harmful if swallowed. May cause irritation of the digestive tract. May cause liver damage. May form methemoglobin which in sufficient concentration causes cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood). May cause necrotic changes in the gastrointestinal tract. Exposure to very high levels may cause seizures, coma, and death.

Inhalation: May cause irritation of the respiratory tract with burning pain in the nose and throat, coughing, wheezing, shortness of breath and pulmonary edema. May cause cardiac abnormalities. Harmful if inhaled.

Chronic: May cause liver and kidney damage. Chronic exposure may cause visual disturbances. Laboratory experiments have resulted in mutagenic effects. Prolonged or repeated contact may cause possible eczema.

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. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation: Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

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. This material in sufficient quantity and reduced particle size is capable of creating a dust explosion.

Extinguishing Media: Use water fog, dry chemical, carbon dioxide, or regular foam.

Flash Point: 133 deg C (271.40 deg F)

Autoignition Temperature: 421 deg C (789.80 deg F)

Explosion Limits, Lower:Not available.

Upper: Not available.

NFPA Rating: (estimated) Health: 2; Flammability: 1; Instability: 1

Section 6 - Accidental Release Measures

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

Spills/Leaks: Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Provide ventilation.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Use only in a well-ventilated area. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage: Store in a cool, dry place. Store in a tightly closed container. Store protected from light and air.

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 general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
4-Methoxyphenol	5 mg/m3 TWA	5 mg/m3 TWA	none listed

OSHA Vacated PELs: 4-Methoxyphenol: 5 mg/m3 TWA

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: Solid

Appearance: white

Odor: phenol-like

pH: Not available.

Vapor Pressure: < 0.01 mm Hg @20C

Vapor Density: 4.3

Evaporation Rate:Not available.

Viscosity: 8.5 cP 65 deg C

Boiling Point: 243 deg C @ 760.00mm Hg

Freezing/Melting Point:54 deg C

Decomposition Temperature:Not available.

Solubility: Insoluble.

Specific Gravity/Density:1.55 @ 20 deg C/20C

Molecular Formula:C7H8O2

Molecular Weight:124.14

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Light, dust generation, excess heat, exposure to moist air or water.

Incompatibilities with Other Materials: Acid anhydrides, acid chlorides, bases, oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, phenol.

Hazardous Polymerization: Has not been reported

Section 11 - Toxicological Information

RTECS#:

CAS# 150-76-5: SL7700000

LD50/LC50:

CAS# 150-76-5:

Draize test, rabbit, skin: 6 gm/12D (Intermittent) Mild;

Draize test, rabbit, skin: 10%;

Oral, rat: LD50 = 1600 mg/kg;

ORAL LD 50 (RAT):

Carcinogenicity:

CAS# 150-76-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: Report of the follow-up of 2 cases of leucoderma (vitiligo) following exposure to hydroquinone monomethyl ether described 8 years previously and survey of 169 men exposed to hydroquinone monomethyl ether or paratertiary-amyl-phenol or both. In the follow-up, repigmentation of a significant degree was found in one man and of a limited degree in the other.

Teratogenicity: No information found

Reproductive Effects: No information found
Mutagenicity: DNA INHIBITION: Human: CELL TYPE: lymphocyte; DOSE: 25 umol/L.
Neurotoxicity: Chronic neurotoxic effects include vision disturbances.
Other Studies:

Section 12 - Ecological Information

Ecotoxicity: Fish: Goldfish: +/-200 mg/L; 48 hrs; LC50Fish: Fathead Minnow: 140 mg/L; 96 hrs; LC50:flowthrough bioassay No data available.
Environmental: Degradation studies: Complete degradation by soil microflora in 8 days. [The Dictionary of Substances and their Effects, 1992]
Physical: No information available.
Other: No information available.

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.

Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:	DOT regulated - small quantity provisions apply (see 49CFR173.4)	No information available.
Hazard Class:		
UN Number:		
Packing Group:		

Section 15 - Regulatory Information

US FEDERAL

TSCA

CAS# 150-76-5 is listed on the TSCA inventory.

Health & Safety Reporting List

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

Chemical Test Rules

CAS# 150-76-5: Testing required by manufacturers, processors

Section 12b

CAS# 150-76-5: Section 4

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.

SARA Codes

CAS # 150-76-5: immediate.

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# 150-76-5 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

California Prop 65

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

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

XN

Risk Phrases:

R 22 Harmful if swallowed.

R 36 Irritating to eyes.
R 43 May cause sensitization by skin contact.

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.
S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 37/39 Wear suitable gloves and eye/face protection.
S 46 If swallowed, seek medical advice immediately and show this container or label.

WGK (Water Danger/Protection)

CAS# 150-76-5: 1

Canada - DSL/NDSL

CAS# 150-76-5 is listed on Canada's DSL 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

CAS# 150-76-5 is listed on the Canadian Ingredient Disclosure List.

Section 16 - Additional Information
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MSDS Creation Date: 2/04/1998

Revision #3 Date: 8/15/2005

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 Fisher 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 Fisher has been advised of the possibility of such damages.