

Material Safety Data Sheet

2,6-Dimethylphenol, P.A.

ACC# 96740

Section 1 - Chemical Product and Company Identification

MSDS Name: 2,6-Dimethylphenol, P.A.

Catalog Numbers: AC116560000, AC116561000, AC116565000

Synonyms: 2,6-Xylenol

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
576-26-1	2,6-Dimethylphenol	99%	209-400-1

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: white crystalline solid crystals. Flash Point: 73 deg C.

Warning! Harmful if absorbed through the skin. Harmful if swallowed. Causes eye and skin irritation and possible burns. May cause respiratory and digestive tract irritation. May cause kidney damage.

Target Organs: Kidneys.

Potential Health Effects

Eye: Causes eye irritation. May cause eye burns.

Skin: Causes skin irritation. Harmful if absorbed through the skin. May cause skin burns.

Ingestion: Harmful if swallowed. May cause irritation of the digestive tract. May cause kidney damage. A case of fatal xylene ingestion by a long stay mental hospital patient is described. Clinical course was similar to that observed in other phenolic poisonings with active bowel sounds, nausea, and vomiting. Severe metabolic acidosis, hypotension, and cardiac and renal failure.

Inhalation: May cause respiratory tract irritation.

Chronic: Chronic ingestion may cause effects similar to those of acute ingestion. May cause kidney damage.

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. Do NOT allow victim to rub eyes or keep eyes closed.

Skin: Get medical aid. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

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 immediately.

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 if cough or other symptoms appear. 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. Use water spray to keep fire-exposed containers cool. Dust can be an explosion hazard when exposed to heat or flame. Containers may explode when heated.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam. Use agent most appropriate to extinguish fire. Cool containers with flooding quantities of water until well after fire is out.

Flash Point: 73 deg C (163.40 deg F)

Autoignition Temperature: 555 deg C (1,031.00 deg F)

Explosion Limits, Lower: 1.40 vol %

Upper: Not available.

NFPA Rating: (estimated) Health: 2; Flammability: 1; 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. Remove all sources of ignition. Provide ventilation.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Use only in a well-ventilated area. Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Keep away from heat, sparks and flame. Do not ingest or inhale.

Storage: Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

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
2,6-Dimethylphenol	none listed	none listed	none listed

OSHA Vacated PELs: 2,6-Dimethylphenol: 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: 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: Crystals

Appearance: white crystalline solid

Odor: Sweet, tar-like odor.

pH: Not available.

Vapor Pressure: 0.1 mbar @ 20 deg C

Vapor Density: Not available.

Evaporation Rate: Not available.

Viscosity: Not available.

Boiling Point: 203 deg C @ 760.00mm Hg

Freezing/Melting Point: 44 - 46 deg C

Decomposition Temperature: Not available.

Solubility: 10 G/L (20°C)

Specific Gravity/Density: Not available.

Molecular Formula: C₈H₁₀O

Molecular Weight: 122.17

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, ignition sources, dust generation, excess heat.

Incompatibilities with Other Materials: Bases - acid chlorides - acid anhydrides - oxidizing agents - corrodes steel - brass - copper - copper alloys.

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

Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

RTECS#:

CAS# 576-26-1: ZE6125000

LD50/LC50:

CAS# 576-26-1:

Draize test, rabbit, eye: 100 mg;

Oral, mouse: LD50 = 450 mg/kg;

Oral, mouse: LD50 = 450000 mg/m³;

Oral, rabbit: LD50 = 700 mg/kg;

Oral, rabbit: LD50 = 700000 mg/m³;

Oral, rat: LD50 = 296 mg/kg;

Oral, rat: LD50 = 296000 mg/m³;

Skin, rabbit: LD50 = 1 gm/kg;

Skin, rabbit: LD50 = 1000000 mg/m³;

Skin, rat: LD50 = 2325 mg/kg;

Carcinogenicity:

CAS# 576-26-1: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: Experimental tumorigenic effects have been reported.

Teratogenicity: No information available.

Reproductive Effects: No information available.

Mutagenicity: No information available.

Neurotoxicity: No information available.

Other Studies:

Section 12 - Ecological Information

Ecotoxicity: Fish: Fathead Minnow: 27mg/l; 96hr.; freshwater flow cfr. Genium

Environmental: Terrestrial: Should display high mobility. Other dimethylphenols have been reported to degrade from soil. Aquatic: Expected to undergo rapid biodegradation. Loss due to volatilization should be insignificant and adsorption onto sediment should not be expected. Atmospheric: Would be expected to rapidly degrade by reaction with photochemically produced hydroxyl radicals; the half-life can be estimated at 7.1 hr. Expected slight bioconcentration.

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:	XYLENOLS, SOLID	XYLENOLS
Hazard Class:	6.1	6.1
UN Number:	UN2261	UN2261
Packing Group:	II	II

Section 15 - Regulatory Information

US FEDERAL

TSCA

CAS# 576-26-1 is 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.

SARA Codes

CAS # 576-26-1: 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 depleters.

This material does not contain any Class 2 Ozone depleters.

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# 576-26-1 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.

European/International Regulations**European Labeling in Accordance with EC Directives**

Hazard Symbols:

XN

Risk Phrases:

R 21/22 Harmful in contact with skin and if swallowed.

Safety Phrases:

S 2 Keep out of reach of children.

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# 576-26-1: 2

Canada - DSL/NDSL

CAS# 576-26-1 is listed on Canada's DSL List.

Canada - 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 - Additional Information****MSDS Creation Date:** 4/16/1999**Revision #3 Date:** 10/03/2005

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