

Material Safety Data Sheet

Phenol

Section 1 - Chemical Product and Company Identification

MSDS Name: Phenol

Catalog Numbers: 14934-0000, 14934-0010, 14934-0040, 14934-0050, 14934-0500, 18078-0000, 18078-1000, 18078-5000, 22175-0000, 22175-2500, 22175-5000, 41717-0000, 41717-5000

Synonyms: Hydroxybenzene; Carboic acid

Company Identification:

Acros Organics BVBA
Janssen Pharmaceuticaaan 3a
2440 Geel, Belgium

Company Identification: (USA)

Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

For information in the US, call:

800-ACROS-01

For information in Europe, call:

+32 14 57 52 11

Emergency Number, Europe:

+32 14 57 52 99

Emergency Number US:

201-796-7100

CHEMTREC Phone Number, US:

800-424-9300

CHEMTREC Phone Number, Europe:

703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
108-95-2	Phenol	>98.5%	203-632-7

Hazard Symbols:

T C



Risk Phrases:

23/24/25 34 48/20/21/22 68

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Toxic by inhalation, in contact with skin and if swallowed. Causes burns. Harmful : danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed. Possible risk of irreversible effects.

Potential Health Effects

Eye: Causes eye burns.

Skin: Causes skin burns. Toxic in contact with skin.

Ingestion: Causes gastrointestinal tract burns. Toxic if swallowed.

Inhalation: Causes chemical burns to the respiratory tract. Toxic if inhaled.

Chronic: Possible risk of irreversible effects.

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 immediately.

Skin: Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Discard contaminated clothing in a manner which limits further exposure. **SPEEDY ACTION IS CRITICAL!**

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

Notes to
Physician:

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. Vapors may form an explosive mixture with air. Will burn if involved in a fire. Combustible liquid.

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

Section 6 - Accidental Release Measures

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

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container.

Section 7 - Handling and Storage

Handling: Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Use only in a chemical fume hood.

Storage: Keep away from sources of ignition. Store in a tightly closed container. Keep from contact with oxidizing materials. Store in a cool, dry, well-ventilated area away from incompatible substances. Corrosives area.

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

CAS# 108-95-2:

United Kingdom, WEL - TWA: 2 ppm TWA United Kingdom, WEL - STEL: 6 ppm STEL

United States OSHA: 5 ppm TWA; 19 mg/m³ TWA

Belgium - TWA: 2 ppm VLE; 7.8 mg/m³ VLE

France - VME: 2 ppm VME; 7.8 mg/m³ VME

Germany: 5 ppm TWA; 19 mg/m³ TWA Germany: skin notation

Japan: 5 ppm OEL; 19 mg/m³ OEL

Malaysia: 5 ppm TWA; 19 mg/m³ TWA

Netherlands: 2 ppm MAC; 8 mg/m³ MAC

Russia: 0.3 mg/m³ TWA (vapour)

Spain: 2 ppm VLA-ED; 8 mg/m³ VLA-ED

Personal Protective Equipment

Eyes: Wear chemical splash goggles.

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: Mass

Color: colorless

Odor: sharp odor - sweetish odor

pH: Not available

Vapor Pressure: 0.4mbar @20 deg C

Viscosity: Not available

Boiling Point: 182 deg C @760mmHg (359.60°F)

Freezing/Melting Point: 39 - 42 deg C
Autoignition Temperature: 605 deg C (1,121.00 deg F)
Flash Point: 79 deg C (174.20 deg F)
Explosion Limits: Lower: 1.3 Vol %
Explosion Limits: Upper: 9.5 Vol %

Decomposition Temperature: Not available

Solubility in water: 8g/100ml

Specific Gravity/Density: 1.070

Molecular Formula: C6H6O

Molecular Weight: 94.11

Section 10 - Stability and Reactivity

Chemical Stability: Stable. Light sensitive. Hygroscopic: absorbs moisture or water from the air.
Conditions to Avoid: Incompatible materials, light, exposure to moist air or water.
Incompatibilities with Other Materials: Strong oxidizing agents, bases, aluminum, halogens, magnesium, nitric acid, zinc, calcium hypochlorite, lead.
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.
Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#: CAS# 108-95-2: SJ3325000
RTECS:
CAS# 108-95-2: Draize test, rabbit, eye: 5 mg Severe;
Draize test, rabbit, skin: 500 mg/24H Severe;
Draize test, rabbit, skin: 100 mg Mild;
Inhalation, mouse: LC50 = 177 mg/m3;
Inhalation, mouse: LC50 = 177 mg/m3/4H;
Inhalation, rat: LC50 = 316 mg/m3;
LD50/LC50: Inhalation, rat: LC50 = 316 mg/m3/4H;
Oral, mouse: LD50 = 270 mg/kg;
Oral, rat: LD50 = 317 mg/kg;
Oral, rat: LD50 = 512 mg/kg;
Skin, rabbit: LD50 = 630 mg/kg;
Skin, rat: LD50 = 669 mg/kg;
Skin, rat: LD50 = 1500 mg/kg;
-
Carcinogenicity: Phenol - IARC: Group 3 (not classifiable)
Other: See actual entry in RTECS for complete information. Possible mutagen.

Section 12 - Ecological Information

Not available

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

	IATA	IMO	RID/ADR
Shipping Name:	PHENOL, SOLID	PHENOL, SOLID	PHENOL, SOLID
Hazard Class:	6.1	6.1	6.1
UN Number:	1671	1671	1671
Packing Group:	II	II	II

USA RQ: CAS# 108-95-2: 1000 lb final RQ; 454 kg final RQ

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T C

Risk Phrases:

R 23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R 34 Causes burns.

R 48/20/21/22 Harmful : danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.

R 68 Possible risk of irreversible effects.

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 28A After contact with skin, wash immediately with plenty of water.

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

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

WGK (Water Danger/Protection)

CAS# 108-95-2: 2

Canada

CAS# 108-95-2 is listed on Canada's DSL List

US Federal

TSCA

CAS# 108-95-2 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 7/16/1996

Revision #2 Date 5/31/2005

Revisions were made in Sections: General revision.

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