

1 Identification of substance**Product details**

Trade name

Phenol-d1

Stock number:

H51100

Manufacturer/Supplier:

Alfa Aesar GmbH & Co.KG
Benzstrasse 3
D-76185 Karlsruhe / GermanyE-mail: gcat@matthey.com
www.alfa-chemcat.com

Informing department:

Product safety department.

Emergency information:

Giftnotruf Universität Mainz / Poison Information Center Mainz
www.giftinfo.uni-mainz.de Telefon:+49(0)6131/19240**2 Hazards identification**

Hazard designation:



T Toxic

Information pertaining to particular dangers for man and environment

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.

GHS label elements

**Danger**

H301 - Toxic if swallowed.
 H311 - Toxic in contact with skin.
 H330 - Fatal if inhaled.

**Danger**

H314 - Causes severe skin burns and eye damage.

**Warning**

H341 - Suspected of causing genetic defects.
 H373 - May cause damage to organs through prolonged or repeated exposure.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P320 Specific treatment is urgent (see on this label).
 P361 Remove/Take off immediately all contaminated clothing.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Response:

Storage:
Disposal:**3 Composition/information on ingredients**

Chemical characterization:

Phenol-d1 (CAS# 1003-66-3)

Designation: (CAS#)

4 First aid measures

General information

Instantly remove any clothing soiled by the product.
 Remove breathing apparatus only after soiled clothing has been completely removed.
 In case of irregular breathing or respiratory arrest provide artificial respiration.

After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

After skin contact

Seek immediate medical advice.
 Instantly wash with water and soap and rinse thoroughly.

After eye contact

Seek immediate medical advice.

After swallowing

Rinse opened eye for several minutes under running water. Then consult doctor.
 Do not induce vomiting; instantly call for medical help.
 Seek immediate medical advice.

5 Fire fighting measures

Suitable extinguishing agents
 Special hazards caused by the material, its products of combustion or flue gases:

CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

Protective equipment:

Can be released in case of fire:
 Carbon monoxide and carbon dioxide
 Wear self-contained breathing apparatus.
 Wear full protective suit.

6 Accidental release measures

Person-related safety precautions:

Wear protective equipment. Keep unprotected persons away.
 Ensure adequate ventilation

Measures for environmental protection:

Do not allow material to be released to the environment without proper governmental permits.

Measures for cleaning/collecting:

Use neutralizing agent.
 Dispose of contaminated material as waste according to item 13.
 Ensure adequate ventilation.

Additional information:

See Section 7 for information on safe handling
 See section 8 for information on personal protection equipment.
 See Section 13 for information on disposal.

7 Handling and storageHandling
Information for safe handling:

Handle under dry protective gas.
 Keep containers tightly sealed.
 Store in cool, dry place in tightly closed containers.
 Ensure good ventilation/exhaustion at the workplace.
 Open and handle container with care.

Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Storage
Requirements to be met by storerooms and containers:

No special requirements.

Trade name Phenol-d1

(Contd. of page 1)

Information about storage in one common storage facility:

Store away from oxidizing agents.
Store away from air.
Store in the dark.

Further information about storage conditions:

Store under dry inert gas.
Keep container tightly sealed.
Store in cool, dry conditions in well sealed containers.
Protect from the effects of light.
Store in a locked cabinet or with access restricted to technical experts or their assistants.
This product is air sensitive.

8 Exposure controls and personal protection**Additional information about design of technical systems:**

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Components with critical values that require monitoring at the workplace:

Phenol
ppm
ACGIH TLV 5 (skin); Not classifiable as a human carcinogen
Austria MAK 5 (skin)
Belgium TWA 5 (skin)
Denmark TWA 1 (skin)
Finland TWA 5; 10-STEL (skin)
France VME 5 (skin)
Germany MAK 5 (skin)
Hungary TWA 4 mg/m³; 8 mg/m³-STEL (skin)
Japan OEL 5 (skin)
Korea TLV 5 (skin)
Netherlands MAC-TGG 5 (skin)
Norway TWA 1
Poland TWA 10 mg/m³; 20 mg/m³-STEL
Russia TWA 5; 0.3-STEL (skin)
Sweden NGV 1; 2-KTV (skin)
Switzerland MAK-W 5; 10-KZG-W (skin)
United Kingdom TWA 5; 10-STEL (skin)
USA PEL 5 (skin)
No data

Additional information:**Personal protective equipment
General protective and hygienic measures**

The usual precautionary measures should be adhered to in handling the chemicals.
Keep away from foodstuffs, beverages and food.
Instantly remove any soiled and impregnated garments.
Wash hands during breaks and at the end of the work.
Store protective clothing separately.
Avoid contact with the eyes and skin.

Breathing equipment:**Protection of hands:****Material of gloves**

Use breathing protection with high concentrations.
Check protective gloves prior to each use for their proper condition.
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material**Eye protection:**

Impervious gloves
Not determined
Safety glasses
Tightly sealed safety glasses.

Body protection:

Face protection
Full face protection
Protective work clothing.

9 Physical and chemical properties:**General Information**

Form: Solid.
Colour: Light pink
Smell: Not determined

Change in condition

Melting point/Melting range: 40-42°C
Boiling point/Boiling range: 182°C
Sublimation temperature / start: Not determined

Flash point: Not applicable

Ignition temperature: Not determined

Decomposition temperature: Not determined

Danger of explosion: Product is not explosive.

Critical values for explosion:

Lower: Not determined
Upper: Not determined

Steam pressure: Not determined

Density at 20°C 1.082 g/cm³

10 Stability and reactivity**Thermal decomposition / conditions to be avoided:****Materials to be avoided:**

No decomposition if used and stored according to specifications.
Oxidizing agents

Dangerous reactions:**Dangerous products of decomposition:**

Air
Light
No dangerous reactions known
Carbon monoxide and carbon dioxide

Trade name **Phenol-d1**

(Contd. of page 2)

11 Toxicological information

Acute toxicity:	
Primary irritant effect:	Corrosive effect on skin and mucous membranes.
on the skin:	Strong corrosive effect.
on the eye:	No sensitizing effect known.
Sensitization:	To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.
Additional toxicological information:	Danger by skin resorption. Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach. No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

12 Ecological information:

Additional ecological information:	
General notes:	Do not allow product to reach ground water, water bodies or sewage system. Water hazard class 2 (Self-assessment): hazardous for water. Danger to drinking water if even small quantities leak into soil. Do not allow material to be released to the environment without proper governmental permits.

13 Disposal considerations

Product:	
Recommendation	Hand over to disposers of hazardous waste. Must be specially treated under adherence to official regulations. Consult state, local or national regulations for proper disposal.
Uncleaned packagings:	
Recommendation:	Disposal must be made according to official regulations.

14 Transport information**Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)**

ADR/RID-GGVS/E Class:	6.1 (T2) Toxic substances.
Kemler Number:	60
UN-Number:	1671
Packaging group:	II
Label	6.1
Designation of goods:	1671 PHENOL, SOLID
Limited quantities (LQ)	LQ18
Transport category	2
Tunnel restriction code	D/E

Maritime transport IMDG/GGVSea:

IMDG/GGVSea Class:	6.1
UN Number:	1671
Label	6.1
Packaging group:	II
EMS Number:	F-A,S-A
Marine pollutant:	No
Correct technical name:	PHENOL, SOLID

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class:	6.1
UN/ID Number:	1671
Label	6.1
Packaging group:	II
Correct technical name:	PHENOL, SOLID

UN "Model Regulation": UN1671, PHENOL, SOLID, 6.1, II

15 Regulatory information**Designation according to EC guidelines:**

Code letter and hazard designation of product:



T Toxic

Risk phrases:

23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
34	Causes burns.
48/20/21/22	Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
68	Possible risk of irreversible effects.

Safety phrases:

24/25	Avoid contact with skin and eyes.
26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
28	After contact with skin, wash immediately with plenty of soap and water.
36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

National regulations**Information about limitation of use:**

For use only by technically qualified individuals.
Employment restrictions concerning young persons must be observed.

(Contd. on page 4)
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Safety Data Sheet
according to 1907/2006/EC, Article 31

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Trade name **Phenol-d1****Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

(Contd. of page 3)

16 Other information:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Department issuing data specification sheet: Health, Safety and Environmental Department.**Contact:** Zachariah Holt**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
CAS: Chemical Abstracts Service (division of the American Chemical Society)

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