

# SAFETY DATA SHEET Phenol, 4-ethyl-

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

## 1. Identification

Product identifier

Product name Phenol, 4-ethyl-

Product number W0523

Synonyms; trade names 4-Ethylphenol p-Ethylphenol p-Ethylphenol p-Ethylphenol p-Ethylphenol

CAS number 123-07-9

Recommended use of the chemical and restrictions on use

Application Laboratory chemicals, Manufacture of substances.

Uses advised against No specific uses advised against are identified.

Details of the supplier of the safety data sheet

Supplier Synerzine

5340 Highway 42 Ellenwood, GA 30294 (404) 524-6744 info@synerzine.com

Contact Person James Elliott

Emergency telephone number

Emergency telephone INFOTRAC 1-800-535-5053 (Reference Contract # 102471)

## 2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards Not Classified

Health hazards Skin Corr. 1C - H314 Eye Dam. 1 - H318

Environmental hazards Aquatic Acute 2 - H401

Label elements

Hazard symbols



Signal word Danger

Hazard statements H314 Causes severe skin burns and eye damage.

H401 Toxic to aquatic life.

Precautionary statements P260 Do not breathe dust.

P264 Wash contaminated skin thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/ shower.

P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. P310 Immediately call a poison center/ doctor.

P321 Specific treatment (see medical advice on this label).

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

P501 Dispose of contents/ container in accordance with national regulations.

#### Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

#### 3. Composition/information on ingredients

Substances

Product name Phenol, 4-ethyl-

CAS number 123-07-9

Chemical formula C8H10O

## 4. First-aid measures

## Description of first aid measures

General information Get medical attention immediately. Show this Safety Data Sheet to the medical personnel. Chemical

burns must be treated by a physician.

Inhalation Remove affected person from source of contamination. Move affected person to fresh air and keep warm

and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Place unconscious person on their side in the recovery position and ensure

breathing can take place.

Ingestion Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Stop if the affected

person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Place unconscious person on their side in the recovery position and ensure breathing can take place. Maintain an open airway. Loosen tight clothing

such as collar, tie or belt.

Skin Contact It is important to remove the substance from the skin immediately. Take off immediately all contaminated

clothing. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes and get medical

attention. Chemical burns must be treated by a physician.

Eye contact Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart.

Continue to rinse for at least 10 minutes.

Protection of first aiders First aid personnel should wear appropriate protective equipment during any rescue. Wash contaminated

clothing thoroughly with water before removing it from the affected person, or wear gloves. It may be

dangerous for first aid personnel to carry out mouth-to-mouth resuscitation.

Most important symptoms and effects, both acute and delayed

General information See Section 11 for additional information on health hazards. The severity of the symptoms described will

vary dependent on the concentration and the length of exposure.

Inhalation A single exposure may cause the following adverse effects: Severe irritation of nose and throat.

Symptoms following overexposure may include the following: Corrosive to the respiratory tract.

Ingestion May cause chemical burns in mouth, esophagus and stomach. Symptoms following overexposure may

include the following: Severe stomach pain. Nausea, vomiting.

Skin contact Causes severe burns. Symptoms following overexposure may include the following: Pain or irritation.

Redness. Blistering may occur.

Eye contact Causes serious eye damage. Symptoms following overexposure may include the following: Pain. Profuse

watering of the eyes. Redness.

Indication of immediate medical attention and special treatment needed

Notes for the doctor Treat symptomatically.

#### 5. Fire-fighting measures

## Extinguishing media

Suitable extinguishing media The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water

fog. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

Special hazards arising from the substance or mixture

Specific hazards Severe corrosive hazard. Water used for fire extinguishing, which has been in contact with the product,

may be corrosive.

Hazardous combustion products Thermal decomposition or combustion products may include the following substances: Very toxic or

corrosive gases or vapors.

Advice for firefighters

Protective actions during

firefighting

Avoid breathing fire gases or vapors. Evacuate area. Keep upwind to avoid inhalation of gases, vapors, fumes and smoke. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

Special protective equipment for

firefighters

Regular protection may not be safe. Wear chemical protective suit. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary

and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage. Ensure procedures and training for emergency decontamination and disposal are in place. Do not touch or walk into spilled material. Avoid inhalation of dust. Use suitable respiratory protection if ventilation is inadequate. Avoid contact with skin and eyes. Avoid contact with

contaminated tools and objects.

**Environmental precautions** 

Environmental precautions The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms.

Avoid discharge to the aquatic environment. Large Spillages: Inform the relevant authorities if

environmental pollution occurs (sewers, waterways, soil or air).

Methods and material for containment and cleaning up

Methods for cleaning up Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately

and dispose of waste safely. This product is corrosive. Approach the spillage from upwind. Collect spillage with a shovel and broom, or similar and reuse, if possible. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dispose of waste to licensed waste disposal site in accordance with the

requirements of the local Waste Disposal Authority.

Reference to other sections

For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

### 7. Handling and storage

Precautions for safe handling

Usage precautions

Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Keep container tightly sealed when not in use. This product is corrosive. Immediate first aid is imperative. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

Advice on general occupational

hygiene

Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.

Conditions for safe storage, including any incompatibilities

Storage precautions Store away from incompatible materials (see Section 10). Store in accordance with local regulations.

Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage. Utilize retaining walls to prevent soil and water pollution in the event of spillage. The storage area floor should be leak-tight, jointless and not absorbent.

Storage class Corrosive storage.

Specific end uses(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.

#### 8. Exposure controls/Personal protection

Ingredient comments

No exposure limits known for ingredient(s).

Exposure controls

Protective equipment













Appropriate engineering controls

Provide adequate ventilation. Personal, workplace environment or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimize worker exposure. Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control measures. Ensure control measures are regularly inspected and maintained. Ensure operatives are trained to minimize exposure.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with OSHA 1910.133. Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with OSHA 1910.138 and be demonstrated to be impervious to the chemical and resist degradation. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.

Other skin and body protection

Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.

Hygiene measures Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the

workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Preventive industrial medical examinations should be carried out. Warn cleaning personnel of any hazardous properties of the

product.

Respiratory protection Respiratory protection complying with an approved standard should be worn if a risk assessment

indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is NIOSH approved. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with OSHA 1910.134. Full face mask respirators with replaceable filter cartridges should comply with OSHA 1910.134. Half mask and quarter

mask respirators with replaceable filter cartridges should comply with OSHA 1910.134.

Environmental exposure controls Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment

should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be

necessary to reduce emissions to acceptable levels.

### 9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance Clear liquid.

Color White to Brown

Odor Phenolic Odor

Odor threshold Not available.

pH Not available.

Melting point Not available.

Initial boiling point and range 219°C

Flash point 211°F

Evaporation rate Not available.

Upper/lower flammability or

explosive limits

Not available.

Vapor pressure Not available.

Vapor density xxx.x - (Air - 1.0)

Relative density Not available.

Solubility(ies) Not available.

Partition coefficient Not available.

Auto-ignition temperature Not available.

Decomposition Temperature Not available.

Viscosity Not available.

Explosive properties Not available.

Oxidizing properties Not available.

Molecular weight xxx.xx g/mol

## 10. Stability and reactivity

Reactivity See the other subsections of this section for further details.

Revision date: 11/21/2018 Revision: 2 Supersedes date: 5/30/2015

# Phenol, 4-ethyl-

Stability Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed

storage conditions.

Possibility of hazardous reactions No potentially hazardous reactions known.

Conditions to avoid There are no known conditions that are likely to result in a hazardous situation.

Materials to avoid No specific material or group of materials is likely to react with the product to produce a hazardous

situation.

Hazardous decomposition

products

Does not decompose when used and stored as recommended. Thermal decomposition or combustion

products may include the following substances: Corrosive gases or vapors.

### 11. Toxicological information

Information on toxicological effects

Acute toxicity - oral

Summary Based on available data the classification criteria are not met.

Acute toxicity - dermal

Summary Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Summary Based on available data the classification criteria are not met.

Skin corrosion/irritation

Summary Causes severe skin burns and eye damage.

Serious eye damage/irritation

Summary Causes serious eye damage.

Respiratory sensitization

Summary Based on available data the classification criteria are not met.

Skin sensitization

Summary Based on available data the classification criteria are not met.

Germ cell mutagenicity

Summary Based on available data the classification criteria are not met.

Carcinogenicity

Summary Based on available data the classification criteria are not met.

Reproductive toxicity

Summary Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

Summary Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

Summary Based on available data the classification criteria are not met.

Aspiration hazard

Summary Not relevant. Solid.

General information The severity of the symptoms described will vary dependent on the concentration and the length of

exposure.

Inhalation Corrosive to the respiratory tract. Symptoms following overexposure may include the following: Severe

irritation of nose and throat.

Revision date: 11/21/2018 Revision: 2 Supersedes date: 5/30/2015

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Ingestion May cause chemical burns in mouth, esophagus and stomach. Symptoms following overexposure may

include the following: Severe stomach pain. Nausea, vomiting.

Skin Contact Causes severe burns. Symptoms following overexposure may include the following: Pain or irritation.

Redness. Blistering may occur.

Eye contact Causes serious eye damage. Symptoms following overexposure may include the following: Pain. Profuse

watering of the eyes. Redness.

Route of exposure Ingestion Inhalation Skin and/or eye contact

Target Organs No specific target organs known.

## 12. Ecological information

Acute aquatic toxicity

Summary Based on available data the classification criteria are not met.

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 10.4 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic

invertebrates

EC₅o, 48 hours: 5.7 mg/l, Daphnia magna

Chronic aquatic toxicity

Summary Based on available data the classification criteria are not met.

Persistence and degradability

Persistence and degradability The degradability of the product is not known.

Bioaccumulative potential

Bio-Accumulative Potential No data available on bioaccumulation.

Partition coefficient Not available.

Mobility in soil

Mobility No data available.

Other adverse effects

Other adverse effects None known.

## 13. Disposal considerations

Waste treatment methods

General information The generation of waste should be minimized or avoided wherever possible. Reuse or recycle products

wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

Disposal methods Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed

waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labeled with their contents. Incineration

or landfill should only be considered when recycling is not feasible.

14. Transport information

General For limited quantity packaging/limited load information, consult the relevant modal documentation using

the data shown in this section.

**UN Number** 

UN No. (TDG) 2430 UN No. (IMDG) 2430

7/9

UN No. (ICAO) 2430

UN No. (DOT) *UN2430* 

UN proper shipping name

Proper shipping name (TDG) ALKYLPHENOLS, SOLID, N.O.S.

Proper shipping name (IMDG) ALKYLPHENOLS, SOLID, N.O.S.

Proper shipping name (ICAO) ALKYLPHENOLS, SOLID, N.O.S.

Proper shipping name (DOT) ALKYLPHENOLS, SOLID, N.O.S.

Transport hazard class(es)

DOT hazard class 8

DOT hazard label 8

TDG class 8

TDG label(s) 8

IMDG Class 8

ICAO class/division 8

### Transport labels



## DOT transport labels



## Packing group

TDG Packing Group III
IMDG packing group III
ICAO packing group III
DOT packing group III

## **Environmental hazards**

Environmentally Hazardous Substance

No.

## Special precautions for user

Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

EmS F-A, S-B

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

## 15. Regulatory information

Regulatory References OSHA Hazard Communication Standard 29 CFR §1910.1200

**US State Regulations** 

Massachusetts "Right To Know" List

Present.

Pennsylvania "Right To Know" List

Present.

Inventories

Canada - DSL/NDSL

DSL

US - TSCA Present.

### 16. Other information

Classification abbreviations and

Eye Dam. = Serious eye damage

acronyms

Skin Corr. = Skin corrosion

Training advice

Read and follow manufacturer's recommendations. Only trained personnel should use this material.

Revision comments NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date 11/21/2018

Revision 2

Supersedes date 5/30/2015

SDS No. 531

Hazard statements in full H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H401 Toxic to aquatic life.

NFPA - health hazard Temporary incapacitation, injury. (2)

NFPA - flammability hazard Burns only if pre-heated. (1)

NFPA - instability hazard Normally stable. (0)

End of Safety Data Sheet

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.