Ethanone, 1-(2-hydroxyphenyl)- (cas 118-93-4) MSDS

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
   
   **Product Name**  
   2′-Hydroxyacetophenone

2. HAZARDS IDENTIFICATION

   **Classification of the substance or mixture**
   According to Regulation (EC) No 1272/2008
   Skin irritation (Category 2)
   Eye irritation (Category 2)
   Specific target organ toxicity - single exposure (Category 3)
   
   **According to European Directive 67/548/EEC as amended.**
   Irritating to eyes, respiratory system and skin.

   **Label elements**
   
   **Pictogram**
   
   **Signal word**  Warning
   
   **Hazard statement(s)**
   H315  Causes skin irritation.
   H319  Causes serious eye irritation.
   H335  May cause respiratory irritation.
   
   **Precautionary statement(s)**
   P261  Avoid breathing dust/fume/gas/mist/vapours/spray.
   P305 + P351 + P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
   
   **Hazard symbol(s)**
   Xi
   
   **R-phrase(s)**  
   R36/37/38  Irritating to eyes, respiratory system and skin.
   
   **S-phrase(s)**
   S26  In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
   S36  Wear suitable protective clothing.

   **Other hazards - none**

3. COMPOSITION/INFORMATION ON INGREDIENTS

   **Synonyms**  2-Acetylphenol
   
   **Formula**  C8H8O2
   
   **Molecular Weight**  136.15 g/mol

   **CAS-No.**  118-93-4  
   **EC-No.**  204-288-0  
   **Index-No.**  -  
   **Classification**  Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H315, H319, H335 Xi, R36/37/38
   
   For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

   **General advice**
   Consult a physician. Show this safety data sheet to the doctor in attendance.

   **If inhaled**
   If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

   **In case of skin contact**
   Wash off with soap and plenty of water. Consult a physician.
In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters
Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions
Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

Environmental precautions
Do not let product enter drains.

Methods and materials for containment and cleaning up
Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection.

Conditions for safe storage
Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8. EXPOSURE CONTROLS/Personal Protection

Personal protective equipment

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Handle with gloves.

Eye protection
Safety glasses with side-shields conforming to EN166

Skin and body protection
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Form clear, liquid
Colour light yellow

Safety data
pH no data available
Melting point 3 - 6 °C - lit.
Boiling point 213 °C at 956 hPa - lit.
Flash point 106 °C - closed cup
Ignition temperature no data available
Lower explosion limit  no data available
Upper explosion limit  no data available
Vapour pressure  0.3 hPa at 20 °C
Density  1,131 g/cm³ at 25 °C
Water solubility  no data available
Relative vapour density  4.7
(\text{Air} = 1.0)

10. STABILITY AND REACTIVITY

Chemical stability
Stable under recommended storage conditions.

Conditions to avoid
no data available

Materials to avoid
Bases, Acid chlorides, Acid anhydrides, Oxidizing agents

Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides

11. TOXICOLOGICAL INFORMATION

Acute toxicity
LD50 Intraperitoneal - mouse - 100 mg/kg

Skin corrosion/Irritation
no data available

Serious eye damage/eye irritation
no data available

Respiratory or skin sensitization
no data available

Germ cell mutagenicity
no data available

Carcinogenicity
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity
no data available

Specific target organ toxicity - single exposure
Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure
no data available

Aspiration hazard
no data available

Potential health effects
Inhalation  May be harmful if inhaled. Causes respiratory tract irritation.
Ingestion  May be harmful if swallowed.
Skin  May be harmful if absorbed through skin. Causes skin irritation.
Eyes  Causes eye irritation.

Signs and Symptoms of Exposure
Depending on the intensity and duration of exposure, effects may vary from mild irritation to severe destruction of tissue.

Additional Information
RTECS: AM8575000

12. ECOLOGICAL INFORMATION

Toxicity
no data available

Persistence and degradability
no data available

Bioaccumulative potential
no data available
Mobility in soil
no data available

PBT and vPvB assessment
no data available

Other adverse effects
no data available

13. DISPOSAL CONSIDERATIONS

Product
Observe all federal, state, and local environmental regulations. Contact a licensed professional waste
disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn
in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

ADR/RID
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

16. OTHER INFORMATION

Text of H-code(s) and R-phrase(s) mentioned in Section 3

Eye Irrit. Eye irritation
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
Skin Irrit. Skin irritation
STOT SE Specific target organ toxicity - single exposure
Xi Irritant
R36/37/38 Irritating to eyes, respiratory system and skin.

Further information
The above information is believed to be correct but does not purport to be all inclusive and
shall be used only as a guide. The information this document is based on the resent state
of our knowledge and is applicable to the product with regard to appropriate safety precautions.
It does not represent any guarantee of the properties of the product. guidechem shall not be
held liable for any damage resulting from handling or from contact with the above product.
See reverse side of invoice or packing slip for additional terms and conditions of sale.