

SAFETY DATA SHEET

Revision Date 10-Feb-2015 Creation Date 22-Sep-2009 **Revision Number 1**

1. Identification

Product Name 4'-Bromoacetophenone

Cat No.: AC106590000; AC106590250; AC106591000; AC106595000

1-(4-Bromophenyl)ethanone; 1-Acetyl-4-bromobenzene **Synonyms**

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Entity / Business Name Company

> Acros Organics One Reagent Lane

One Reagent Lane Fair Lawn, NJ 07410 Fair Lawn, NJ 07410

Tel: (201) 796-7100

Fisher Scientific

Emergency Telephone Number

For information US call: 001-800-ACROS-01

/ Europe call: +32 14 57 52 11

Emergency Number US:001-201-796-7100 /

Europe: +32 14 57 52 99

CHEMTREC Tel. No.US:001-800-424-9300 /

Europe:001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity Category 4 Acute Inhalation Toxicity - Dusts and Mists Category 4 Skin Corrosion/irritation Category 2 Serious Eve Damage/Eve Irritation Category 2 Respiratory Sensitization Category 1 Specific target organ toxicity (single exposure) Category 3

Target Organs - Respiratory system.

Label Elements

Signal Word

Danger

Hazard Statements

Harmful if swallowed Harmful if inhaled Causes skin irritation Causes serious eye irritation May cause respiratory irritation

May cause allergy or asthma symptoms or breathing difficulties if inhaled



Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

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

In case of inadequate ventilation wear respiratory protection

Response

Call a POISON CENTER or doctor/physician if you feel unwell

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Storage

Store in a well-ventilated place. Keep container tightly closed

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

3. Composition / information on ingredients

| Component | CAS-No | Weight % | | |
|------------------------------|---------|----------|--|--|
| Ethanone, 1-(4-bromophenyl)- | 99-90-1 | 98 | | |

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Obtain medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.

Ingestion Do not induce vomiting. Obtain medical attention.

Most important symptoms/effects

Notes to Physician

No information available. Treat symptomatically

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5. Fire-fighting measures

Water spray. Carbon dioxide (CO₂). Dry chemical. chemical foam. **Suitable Extinguishing Media**

Unsuitable Extinguishing Media No information available

Flash Point > 100 °C / > 212 °F No information available Method -

Autoignition Temperature

Explosion Limits

Not applicable

Upper No data available No data available Lower Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Carbon monoxide (CO) Carbon dioxide (CO2) Hydrogen halides

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health **Flammability** Instability Physical hazards 2 1 0 N/A

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment.

See Section 12 for additional ecological information. **Environmental Precautions**

Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Do not let Up this chemical enter the environment.

7. Handling and storage

Avoid contact with skin and eyes. Do not breathe dust. Do not ingest. Wear personal Handling

protective equipment.

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Storage

8. Exposure controls / personal protection

This product does not contain any hazardous materials with occupational exposure limits **Exposure Guidelines**

established by the region specific regulatory bodies.

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations **Engineering Measures**

and safety showers are close to the workstation location.

Personal Protective Equipment

Wear appropriate protective eyeglasses or chemical safety goggles as described by **Eye/face Protection**

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

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Respiratory Protection No protective equipment is needed under normal use conditions.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical StateSolidAppearanceOff-whiteOdorOdorless

Odor Threshold
pH

No information available
No information available

 Melting Point/Range
 48 - 52 °C / 118.4 - 125.6 °F

 Boiling Point/Range
 255 °C / 491 °F @ 760 mmHg

Flash Point $> 100 \, ^{\circ}\text{C} \, / > 212 \, ^{\circ}\text{F}$

Evaporation Rate Not applicable

Flammability (solid,gas)

No information available

Flammability or explosive limits

UpperNo data availableLowerNo data availableVapor PressureNo information availableVapor DensityNot applicable

Relative Density
Solubility
No information available
Partition coefficient; n-octanol/water
No data available

Autoignition Temperature Not applicable

Decomposition TemperatureNo information available

ViscosityNot applicableMolecular FormulaC8 H7 Br OMolecular Weight199.05

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products.

Incompatible Materials Strong oxidizing agents, Strong bases

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2), Hydrogen halides

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Oral LD50 Category 4. ATE = 300 - 2000 mg/kg.

Mist LC50 Category 4. ATE = 1 - 5 mg/l.

Component Information

Toxicologically Synergistic No information available

Products

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Irritating to eyes, respiratory system and skin

Sensitization May cause sensitization by inhalation

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Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Component | CAS-No | IARC | NTP | ACGIH | OSHA | Mexico | |
|--------------------|---------|------------|------------|------------|------------|------------|--|
| Ethanone, | 99-90-1 | Not listed | |
| 1-(4-bromophenyl)- | | | | | | | |

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

No information available. **Teratogenicity**

STOT - single exposure Respiratory system STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and No information available delayed

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

Do not empty into drains.

| Component | Freshwater Algae | Freshwater Fish | Microtox | Water Flea |
|---------------------------------|------------------|-----------------|--|------------|
| Ethanone, 1-(4-bromophenyl)- | Not listed | Not listed | EC50 = 6.01 mg/L 15 min EC50 = 6.01 mg/L 30 min EC50 = 6.29 mg/L 5 min | Not listed |

Persistence and Degradability

Insoluble in water No information available.

Bioaccumulation/ Accumulation

Is not likely mobile in the environment due its low water solubility.

13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT

Mobility

UN-No UN2811

TOXIC SOLID, ORGANIC, N.O.S. **Proper Shipping Name** (4'-BROMOACETOPHENONE) Proper technical name

Hazard Class 6.1 **Packing Group** Ш

TDG

UN-No UN2811

Proper Shipping Name TOXIC SOLID, ORGANIC, N.O.S. 6.1

Hazard Class Packing Group

Ш

IATA

UN-No

Proper Shipping Name TOXIC SOLID, ORGANIC, N.O.S.*

Hazard Class 6.1

Revision Date 10-Feb-2015

Packing Group Ш

IMDG/IMO

UN-No 2811

TOXIC SOLID, ORGANIC, N.O.S. **Proper Shipping Name**

Hazard Class Packing Group

Regulatory information

International Inventories

| Component | TSCA | DSL | NDSL | EINECS | ELINCS | NLP | PICCS | ENCS | AICS | IECSC | KECL |
|--------------------|------|-----|------|-----------|--------|-----|-------|------|------|-------|------|
| Ethanone, | Х | - | Х | 202-799-3 | - | | Х | - | Χ | Х | - |
| 1-(4-bromophenyl)- | | | | | | | | | | | |

Legend:

X - Listed

- E Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
- F Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P Indicates a commenced PMN substance
- R Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S Indicates a substance that is identified in a proposed or final Significant New Use Rule
- T Indicates a substance that is the subject of a Section 4 test rule under TSCA.
- XU Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
- Y1 Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
- Y2 Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

Not applicable **SARA 313**

SARA 311/312 Hazardous Categorization

Acute Health Hazard Yes **Chronic Health Hazard** Nο Fire Hazard Nο Sudden Release of Pressure Hazard No **Reactive Hazard** No

Clean Water Act Not applicable

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration

Not applicable

CERCLA

Not applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals

State Right-to-Know Not applicable

U.S. Department of Transportation

Reportable Quantity (RQ): Ν **DOT Marine Pollutant** Ν **DOT Severe Marine Pollutant** Ν

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U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class D1B Toxic materials D2A Very toxic materials



16. Other information

Regulatory Affairs Prepared By

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22-Sep-2009 **Creation Date Revision Date** 10-Feb-2015 **Print Date** 10-Feb-2015

This document has been updated to comply with the US OSHA HazCom 2012 Standard **Revision Summary**

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS