

# **SAFETY DATA SHEET**

Creation Date 04-May-2005 Revision Date 25-Dec-2021 Revision Number 6

1. Identification

Product Name 4`-tert-Butylacetophenone

Cat No.: AC308740000; AC308740010; AC308740050

**CAS No** 943-27-1

Synonyms No information available

Recommended Use Laboratory chemicals.

**Uses advised against** Food, drug, pesticide or biocidal product use.

### Details of the supplier of the safety data sheet

Company

Fisher Scientific Company
One Reagent Lane
Fair Lawn, NJ 07410
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410
Fair Lawn, NJ 07410

Tel: (201) 796-7100

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)

Flammable liquids

Skin Corrosion/Irritation

Serious Eye Damage/Eye Irritation

Category 2

Specific target organ toxicity (single exposure)

Category 3

Category 3

Target Organs - Respiratory system.

### Label Elements

### Signal Word

Warning

### **Hazard Statements**

Flammable liquid and vapor Causes skin irritation Causes serious eye irritation

May cause respiratory irritation



### **Precautionary Statements**

### Prevention

Wash face, hands and any exposed skin thoroughly after handling

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

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Keep cool

### Inhalation

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

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

#### Skin

If skin irritation occurs: Get medical advice/attention

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing 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 eve irritation persists: Get medical advice/attention

#### Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

# 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-(1,1-dimethylethyl)phenyl]-	943-27-1	> 95	

## 4. First-aid measures

**General Advice** If symptoms persist, call a physician.

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

medical attention.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists,

### 4`-tert-Butylacetophenone

call a physician.

**Inhalation** Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if

symptoms occur.

**Ingestion** Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and

effects

Notes to Physician Treat symptomatically

# 5. Fire-fighting measures

. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

Suitable Extinguishing Media Water spray. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Chemical foam. Water mist may be used

to cool closed containers.

Unsuitable Extinguishing Media No information available

**Flash Point** 29 °C / 84.2 °F

Method - No information available

**Autoignition Temperature** 

**Explosion Limits** 

No information available

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

### **Specific Hazards Arising from the Chemical**

Flammable. Vapors may travel to source of ignition and flash back. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition. Containers may explode when heated. Vapors may form explosive mixtures with air.

### **Hazardous Combustion Products**

Carbon monoxide (CO). Carbon dioxide (CO2).

# **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	2	0	N/A

### 6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required. Remove all

sources of ignition. Take precautionary measures against static discharges.

**Environmental Precautions** Should not be released into the environment.

**Methods for Containment and Clean** Keep in suitable, closed containers for disposal. Soak up with inert absorbent material. **Up**Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

# 7. Handling and storage

### Handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Take precautionary measures against static discharges.

### 4'-tert-Butylacetophenone

Storage.

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat, sparks and flame. Flammables area. Incompatible Materials. Strong bases. Strong acids. Oxidizing agent.

# 8. Exposure controls / personal protection

**Exposure Guidelines** 

Engineering Measures Use explosion-proof electrical/ventilating/lighting equipment. Ensure that eyewash stations

and safety showers are close to the workstation location. Use only under a chemical fume

hood. Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

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

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.

Respiratory Protection 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.

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

# 9. Physical and chemical properties

Not applicable

Physical State Liquid
Appearance Colorless

OdorNo information availableOdor ThresholdNo information available

pH No information available

Melting Point/Range 17 - 18 °C / 62.6 - 64.4 °F

**Boiling Point/Range** 107 - 108 °C / 224.6 - 226.4 °F @ 5 mmHg

Flash Point 29 °C / 84.2 °F
Evaporation Rate No information available

Flammability (solid,gas)
Flammability or explosive limits

Upper No data available
Lower No data available

Vapor Pressure
Vapor Density
No information available
No information available
No information available

Specific Gravity 0.960

Solubility Insoluble in water Partition coefficient; n-octanol/water No data available

Autoignition Temperature

Decomposition Temperature

Viscosity

No information available
No information available
No information available

Molecular FormulaC12 H16 OMolecular Weight176.26

# 10. Stability and reactivity

Reactive Hazard None known, based on information available

**Stability** No information available.

### 4'-tert-Butylacetophenone

**Conditions to Avoid** Incompatible products. Keep away from open flames, hot surfaces and sources of ignition.

Strong bases, Strong acids, Oxidizing agent **Incompatible Materials** 

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

**Hazardous Polymerization** No information available. **Hazardous Reactions** No information available.

# 11. Toxicological information

**Acute Toxicity** 

**Product Information** 

No acute toxicity information is available for this product

**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

No information available Sensitization

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

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Ethanone,	943-27-1	Not listed				
1-[4-(1,1-dimethylethyl						
)phenyl]-						

**Mutagenic Effects** No information available

**Reproductive Effects** No information available.

No information available. **Developmental Effects** 

**Teratogenicity** No information available.

STOT - single exposure Respiratory system

STOT - repeated exposure None known

**Aspiration hazard** No information available

Symptoms / effects, both acute and Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

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. .

Persistence and Degradability Insoluble in water Persistence is unlikely based on information available.

**Bioaccumulation/ Accumulation** No information available.

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

environment due to its volatility.

# 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

UN-No UN1224

Proper Shipping Name KETONES, LIQUID, N.O.S.

**Technical Name** Ethanone, 1-[4-(1,1-dimethylethyl)phenyl]-

Hazard Class 3 Packing Group III

TDG

UN-No UN1224

Proper Shipping Name KETONES, LIQUID, N.O.S.

Hazard Class 3 Packing Group III

IATA

UN-No UN1224

Proper Shipping Name KETONES, LIQUID, N.O.S.

Hazard Class 3 Packing Group III

IMDG/IMO

UN-No UN1224

Proper Shipping Name KETONES, LIQUID, N.O.S.

Hazard Class 3
Packing Group III

# 15. Regulatory information

### United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags	
Ethanone, 1-[4-(1,1-dimethylethyl)phenyl]-	943-27-1	Х	ACTIVE	-	

#### Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

# **International Inventories**

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Ethanone,	943-27-1	Х	-	213-399-3	Χ	-		Х	Х	-
1-[4-(1,1-dimethylethyl)phenyl]-										

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

### U.S. Federal Regulations

SARA 313 Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

### 4'-tert-Butylacetophenone

CWA (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.

U.S. State Right-to-Know

Regulations

Not applicable

**U.S. Department of Transportation** 

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland

Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Authorisation/Restrictions according to EU REACH

### Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Ethanone, 1-[4-(1,1-dimethylethyl)phenyl] -	943-27-1	Not applicable	Not applicable	Not applicable	Not applicable

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Ethanone, 1-[4-(1,1-dimethylethyl)phenyl] -	943-27-1	Not applicable	Not applicable	Not applicable	Not applicable

## 16. Other information

Prepared By Regulatory Affairs

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 Creation Date
 04-May-2005

 Revision Date
 25-Dec-2021

 Print Date
 25-Dec-2021

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

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

Revision Date 25-Dec-2021

Harmonized System of Classification and Labeling of Chemicals (GHS).

### Disclaimer

The information provided in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text

**End of SDS**