

SAFETY DATA SHEET

Revision Date 26-Jan-2018

Revision Number 3

1. Identification

Product Name 4`-Fluoroacetophenone

Cat No. :

AC119260000; AC119260250; AC119261000; AC119265000

CAS-No Synonyms 403-42-9 1-(4-Fluorophenyl)ethanone

Recommended Use Uses advised against Laboratory chemicals. Not for food, drug, pesticide or biocidal product use

Details of the supplier of the safety data sheet

<u>Company</u> Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Acros Organics One Reagent Lane Fair Lawn, NJ 07410

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	Category 4
Acute oral toxicity	Category 4
Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory system.	0,1

Label Elements

Signal Word Warning

Hazard Statements

Combustible liquid Harmful if swallowed Causes skin irritation Causes serious eye irritation May cause respiratory irritation



Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

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 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 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

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-fluorophenyl)-		403-42-9	99			
	4. Fi	irst-aid measures				
Eye Contact	Rinse immediat medical attentic		e eyelids, for at least 15 minutes. Get			
Skin Contact		Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Obtain medical attention.				
Inhalation		Remove from exposure, lie down. Move to fresh air. If not breathing, give artificial respiration. Obtain medical attention.				
Ingestion	Clean mouth with water. Get medical attention.					

effects Notes to Physician	Breathing difficulties. Symp nausea and vomiting Treat symptomatically	oms of overexposure may be	headache, dizziness, tiredness,
	5. Fire-fighting	g measures	
Suitable Extinguishing Media	Water spray. Carbon dioxide exposed to fire with water sp		cal foam. Cool closed containers
Unsuitable Extinguishing Media	No information available		
Flash Point	71 °C / 159.8 °F		
Method -	No information available		
Autoignition Temperature Explosion Limits Upper Lower Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No information available No data available No data available No information available No information available		
Specific Hazards Arising from the C Combustible material. Flammable. Cor		eated.	
Hazardous Combustion Products Carbon monoxide (CO) Carbon dioxide Protective Equipment and Precautic As in any fire, wear self-contained brea protective gear.	ons for Firefighters		ed or equivalent) and full
NFPA Health 2	Flammability	Instability 0	Physical hazards N/A
	6. Accidental rele	ase measures	
Personal Precautions			
	Remove all sources of ignition See Section 12 for additiona	on. Take precautionary measu	ires against static discharges.
Environmental Precautions Methods for Containment and Clear	See Section 12 for additiona Sweep up or vacuum up spi	on. Take precautionary measu I ecological information.	ntainer for disposal. Do not let
Environmental Precautions Methods for Containment and Clear	See Section 12 for additional Sweep up or vacuum up spi this chemical enter the envir 7. Handling a	on. Take precautionary measu I ecological information. lage and collect in suitable co onment. Remove all sources o nd storage	ntainer for disposal. Do not let of ignition.
Environmental Precautions Methods for Containment and Clear Up Handling	See Section 12 for additional Sweep up or vacuum up spithis chemical enter the environment 7. Handling a Avoid contact with skin and	on. Take precautionary measu I ecological information. lage and collect in suitable co onment. Remove all sources o nd storage	ntainer for disposal. Do not let of ignition. or spray mist. Do not ingest. Keep
Environmental Precautions Methods for Containment and Clear Up	See Section 12 for additional Sweep up or vacuum up spithis chemical enter the environment 7. Handling a Avoid contact with skin and away from open flames, hot Keep in a dry, cool and well-	on. Take precautionary measu I ecological information. lage and collect in suitable co onment. Remove all sources o nd storage eyes. Do not breathe vapors o	ntainer for disposal. Do not let of ignition. or spray mist. Do not ingest. Keep on. her tightly closed. Keep away
Environmental Precautions Methods for Containment and Clear Up Handling Storage	See Section 12 for additional Sweep up or vacuum up spithis chemical enter the environal 7. Handling a Avoid contact with skin and away from open flames, hot Keep in a dry, cool and well- from heat and sources of igr well-ventilated place.	on. Take precautionary measu I ecological information. lage and collect in suitable co onment. Remove all sources of nd storage eyes. Do not breathe vapors of surfaces and sources of ignition ventilated place. Keep contain ition. Keep containers tightly of personal protection	ntainer for disposal. Do not let of ignition. or spray mist. Do not ingest. Keep on. her tightly closed. Keep away closed in a dry, cool and
Environmental Precautions Methods for Containment and Clear Up Handling Storage	See Section 12 for additional Sweep up or vacuum up spithis chemical enter the environal 7. Handling a Avoid contact with skin and away from open flames, hot Keep in a dry, cool and well- from heat and sources of igr well-ventilated place.	on. Take precautionary measu I ecological information. lage and collect in suitable co onment. Remove all sources of nd storage eyes. Do not breathe vapors of surfaces and sources of ignition ventilated place. Keep contain ition. Keep containers tightly of	ntainer for disposal. Do not let of ignition. or spray mist. Do not ingest. Keep on. her tightly closed. Keep away closed in a dry, cool and

	and safety showers are close to the workstation location.
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	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 State	Liquid
Appearance	Light yellow
Odor	Odorless
Odor Threshold	No information available
рН	No information available
Melting Point/Range	4 °C / 39.2 °F
Boiling Point/Range	196 °C / 384.8 °F @ 760 mmHg
Flash Point	71 °C / 159.8 °F
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	No information available
Specific Gravity	1.130
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	C8 H7 F O
Molecular Weight	138.14

10. Stability and reactivity

Reactive Hazard	None known, based on information available			
Stability	Stable under normal conditions.			
Conditions to Avoid	Excess heat. Exposure to light. Incompatible products. Keep away from open flames, hot surfaces and sources of ignition.			
Incompatible Materials	Strong oxidizing agents, Strong bases, Strong reducing agents			
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2), Gaseous hydrogen fluoride (HF)				
Hazardous Polymerization	No information available.			
Hazardous Reactions	None under normal processing.			
	11. Toxicological information			

Acute Toxicity

Product Information Component Information Toxicologically Synergistic Products Delayed and immediate offects as y	No information available vell as chronic effects from short and long-term exposure
Delayeu anu inimediale enecis as v	ven as chronic effects nom short and long-term exposure
Irritation	No information available

Sensitization	No information available

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

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico				
Ethanone,	403-42-9	Not listed	Not listed	Not listed	Not listed	Not listed				
1-(4-fluorophenyl)- Mutagenic Effects		No information ava	p information available							
Reproductive Effect	ts	No information ava	o information available.							
Developmental Effe	cts	No information ava	ailable.							
Teratogenicity		No information ava	ailable.							
STOT - single exposision STOT - repeated exp		Respiratory system None known	n							
Aspiration hazard		No information ava	ailable							
Symptoms / effects delayed	,both acute and	Symptoms of over	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting							
Endocrine Disrupto	r Information	No information ava	lo information available							
Other Adverse Effe	cts	The toxicological p	he toxicological properties have not been fully investigated.							
12. Ecological information										
Ecotoxicity Do not empty into dra	ains.									
Persistence and De	gradability	No information available								
Bioaccumulation/ A	ccumulation	No information ava	ailable.							
Mobility		No information ava	ailable.							

	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	Not regulated
DOT TDG IATA	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated
	15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Ethanone, 1-(4-fluorophenyl)-	Х	Х	-	206-960-9	-		-	-	Х	Х	-

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
SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA Occupational Safety and Healt Not applicable	h Administration
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):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

No information available

16. Other information	
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Revision Date Print Date Revision Summary	26-Jan-2018 26-Jan-2018 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 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

