SAFETY DATA SHEET



1. Identification

Product identifier	(4-Methylbenzoyl)trifluoroacetone		
Other means of identification			
Catalog number	1A02040		
CAS number	910303-54-7		
Chemical name	1,1,1-Trifluoro-4-hydroxy-4-((4-methylphenyl)-3-buten-2-one	
Recommended use	For analytical laboratory use	e only.	
Recommended restrictions	Not for use as a drug. Not fo	or administration to humans or animals.	
Manufacturer/Importer/Supplier/	Distributor information		
Manufacturer			
Company name	U. S. Pharmacopeia		
Address	12601 Twinbrook Parkway		
	Rockville MD		
	20852-1790		
	United States		
Telephone	Technical Services	301-816-8129	
Website	www.usp.org		
E-mail	PAITech@usp.org		
Emergency phone number	CHEMTREC within US & Canada	1-800-424-9300	
	CHEMTREC outside US &	+1 703-527-3887	
	Canada		
2. Hazard(s) identification			
Physical hazards	Not classified.		
Health hazards	Not classified.		
Environmental hazards	Not classified.		
OSHA defined hazards	Not classified.		
Label elements			
Hazard symbol	None.		
Signal word	None.		
Hazard statement	Not available.		
Precautionary statement			
Prevention	Not available.		
Response	Not available.		
Storage	Not available.		
Disposal	Not available.		
Hazard(s) not otherwise	F		
classified (HNOC)			
Supplemental information	Pharmaceutical related com	pound of unknown potency.	

3. Composition/information on ingredients

Substance

Chemical name	Common name and synonyms	CAS number	%
(4-Methylbenzoyl)trifluoroacetone		910303-54-7	100

Information provided in the SDS is not specific to the lot provided. Refer to the label and USP Certificate/Product Information Sheet for the assigned value of a particular lot.

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Pharmaceutical related compound of unknown potency. It is not known if occupational exposure may cause physiological effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically.
General information	Remove from exposure. Remove contaminated clothing. For treatment advice, seek guidance from an occupational health physician or other licensed health-care provider familiar with workplace chemical exposures. In the United States, the national poison control center phone number is 1-800-222-1222. If person is not breathing, give artificial respiration. If breathing is difficult, give oxygen if available. Persons developing serious hypersensitivity (anaphylactic) reactions must receive immediate medical attention.

5. Fire-fighting measures

Suitable extinguishing media	Water. Foam. Dry chemical or CO2. Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	No unusual fire or explosion hazards noted.
Special protective equipment and precautions for firefighters	Wear suitable protective equipment.
Fire fighting equipment/instructions	Use water spray to cool unopened containers. As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing equipment and protective clothing.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Wear appropriate personal protective equipment. Avoid inhalation of dust from the spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Avoid the generation of dusts during clean-up. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	As a general rule, when handling USP materials, avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Clean equipment and work surfaces with suitable detergent or solvent after use. After removing gloves, wash hands and other exposed skin thoroughly. Select and use containment devices and personal protective equipment based on a risk assessment of material potency and exposure potential.
Conditions for safe storage, including any incompatibilities	Store in tight container. This material should be handled and stored per label instructions to ensure product integrity.

8. Exposure controls/personal protection

Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	No open handling. For laboratory operations, use approved ventilation or containment system (biological safety cabinet, ventilated balance enclosure, glovebox). Control exposures to below the occupational exposure level (if available). Select and use containment devices and personal protective equipment based on a risk assessment of exposure potential. Cover all containers for solutions and slurries while being transferred.

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields, chemical splash goggles, or full face shield, if necessary. Base the choice of protection on the job activity and potential for contact with eyes or face. An emergency eye wash station should be available.
Skin protection	
Hand protection	Consider double gloves. Wear nitrile or other impervious gloves if skin contact is possible. When the material is dissolved or suspended in an organic solvent, wear gloves that provide protection against the solvent.
Other	Train employees in proper gowning and degowning practices. Wear disposable lab coat, disposable sleeve covers and two pair of gloves as appropriate for the task. Base the choice of skin protection on the job activity, potential for skin contact and solvents and reagents in use. Do not wear protective garments in common areas (e.g., cafeterias) or out-of-doors.
Respiratory protection	Use a powered air-purifying respirator (PAPR) with HEPA filters, disposable outerware and head cover for spill cleanup. Choose respiratory protection appropriate to the task and the level of existing engineering controls.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Pharmacological effects may be seen with occupational exposure. Handling practices in this SDS are recommendations for laboratory use of USP materials.

9. Physical and chemical properties

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Appearance	Appearance descriptions are general information and not specific to any USP lot.
Physical state	Solid.
Form	Solid.
Color	White.
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	116.06 - 117.86 °F (46.7 - 47.7 °C)
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Molecular formula	C11H9F3O2
Molecular weight	230.18
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transp

The product is stable and non-reactive under normal conditions of use, storage and transport. Material is stable under normal conditions.

Chemical stability

Possibility of hazardous	No dangerous reaction known under conditions of normal use.
reactions	
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known. F
11. Toxicological informat	ion
Information on likely routes of e	xposure
Inhalation	Knowledge about health hazard is incomplete.
Skin contact	Knowledge about health hazard is incomplete.
Eye contact	Knowledge about health hazard is incomplete.
Ingestion	Knowledge about health hazard is incomplete.
Symptoms related to the physical, chemical and toxicological characteristics	None known.
Information on toxicological effe	ects
Acute toxicity	Not available.
Skin corrosion/irritation	Knowledge about health hazard is incomplete.
Serious eye damage/eye irritation	Knowledge about health hazard is incomplete.
Respiratory or skin sensitization	I de la construcción de la constru
Respiratory sensitization	Knowledge about health hazard is incomplete.
Skin sensitization	Knowledge about health hazard is incomplete.
Germ cell mutagenicity	Knowledge about health hazard is incomplete.
Carcinogenicity	Knowledge about carcinogenicity is incomplete.
IARC Monographs. Overall E	Evaluation of Carcinogenicity
Not listed.	d Substances (20 CEB 4040 4004 4052)
Not listed.	d Substances (29 CFR 1910.1001-1053)
	gram (NTP) Report on Carcinogens
Not listed.	
Reproductive toxicity	Knowledge about health hazard is incomplete.
Specific target organ toxicity - single exposure	Knowledge about health hazard is incomplete.
Specific target organ toxicity - repeated exposure	Knowledge about health hazard is incomplete.
Aspiration hazard	Based on available data, the classification criteria are not met.
Further information	Pharmaceutical related compound of unknown potency. It is not known if occupational exposure may cause physiological effects.
12. Ecological information	
Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence and degradability	No data is available on the degradability of this substance.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.
13. Disposal consideration	IS

13. Disposal considerations

	Dispose in accordance with all applicable regulations. Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criter for hazardous waste.	
Local disposal regulations	Dispose in accordance with all applicable regulations.	

Hazardous waste code	The waste code should be assigned in discussion between the user, the pudisposal company.	roducer and the waste	
Waste from residues / unused products	Empty containers or liners may retain some product residues. This materia be disposed of in a safe manner (see: Disposal instructions).	ll and its container must	
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings emptied.	s even after container is	
14. Transport information			
DOT			
Not regulated as dangerous go	oods.		
IATA			
Not regulated as dangerous go	pods.		
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.		
General information	It is the shipper's responsibility to determine the correct transport classifica shipment.	tion at the time of	
15. Regulatory information			
US federal regulations	This product is not known to be a "Hazardous Chemical" as defined by the Communication Standard, 29 CFR 1910.1200.	OSHA Hazard	
Toxic Substances Control A	ct (TSCA)		
TSCA Section 12(b) Exp	ort Notification (40 CFR 707, Subpt. D)		
Not regulated.			
CERCLA Hazardous Substar	nce List (40 CFR 302.4)		
Not listed.			
SARA 304 Emergency release notification			
Not regulated. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)			
Not listed.			
Superfund Amendments and Rea	authorization Act of 1986 (SARA)		
SARA 302 Extremely hazard			
Not listed.			
SARA 313 (TRI reporting) Not regulated.			
Other federal regulations			
Clean Air Act (CAA) Section	112 Hazardous Air Pollutants (HAPs) List		
Not regulated.			
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)			
Not regulated.			
Safe Drinking Water Act (SDWA)	Not regulated.		
US state regulations			
California Proposition 65			
	/ater and Toxic Enforcement Act of 1986 (Proposition 65): This material y chemicals currently listed as carcinogens or reproductive toxins. For /w.P65Warnings.ca.gov.		
International Inventories			
Country(s) or region	Inventory name	On inventory (yes/no)*	
Australia	Australian Inventory of Chemical Substances (AICS)	No	
Canada	Domestic Substances List (DSL)	No	
Canada	Non-Domestic Substances List (NDSL)	No	
China	Inventory of Existing Chemical Substances in China (IECSC)	No	
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No	
F	Example and List of Natified Observised Overstands (ELINOO)	N	

European List of Notified Chemical Substances (ELINCS)

Europe

No

Country(s) or region	Inventory name	On inventory (yes/no)*
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	11-01-2022
Version #	01
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