

SAFETY DATA SHEET

Creation Date 12-Sep-2014

Revision Date 18-Jan-2018

Revision Number 3

1. Identification

Thenoyltrifluoroacetone

Cat No. :

Product Name

AC138610000; AC138610250; AC138611000; AC138615000

CAS-No Synonyms 326-91-0 4,4,4-Trifluoro-1-(2-thienyl)-1,3-butanedione

Recommended UseLaboratory chemicals.Uses advised againstFood, 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)

Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system. Category 2 Category 2 Category 3

Label Elements

Signal Word Warning

Hazard Statements

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

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

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 CAS-No Weight % Component 1,3-Butanedione, 4,4,4-trifluoro-1-(2-thienyl)-326-91-0 >95 4. First-aid measures 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 soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention. Inhalation Remove from exposure, lie down. Remove to fresh air. If not breathing, give artificial respiration. Get medical attention. Ingestion Do NOT induce vomiting. Get medical attention. Most important symptoms and No information available. effects Notes to Physician Treat symptomatically 5. Fire-fighting measures

Suitable Extinguishing Media	Water spray. Carbon dioxide (CO 2). Dry chemical. Chemical foam.
Unsuitable Extinguishing Media	No information available
Flash Point	111 °C / 231.8 °F
Method -	No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	No data available It No information available 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). Sulfur oxides. Gaseous hydrogen fluoride (HF). **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.

<u>NFPA</u> Health 2	Flammability 1	Instability 1	Physical hazards N/A
	6. Accidental rel	ease measures	
Personal Precautions Environmental Precautions	Ensure adequate ventilatio See Section 12 for addition	n. Use personal protective equip al Ecological Information.	oment as required.
Methods for Containment and Clea Up		suitable containers for disposal. rmation. Use spark-proof tools a	
	7. Handling a	and storage	
Handling	contact with skin and eyes.	quipment/face protection. Ensur Do not breathe dust. Do not bre eek immediate medical assistan	eathe mist/vapors/spray. Do not
Storage	Keep containers tightly close	sed in a dry, cool and well-ventil	ated place.
8. E	xposure controls	personal protectio	'n
Exposure Guidelines		ain any hazardous materials with ion specific regulatory bodies.	h occupational exposure
Engineering Measures		n, especially in confined areas. I se to the workstation location.	Ensure that eyewash stations
Personal Protective Equipment			
Eye/face Protection		e eyeglasses or chemical safety ction regulations in 29 CFR 191	
Skin and body protection	Wear appropriate protective	e 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	Solid
Appearance	Light yellow
Odor	Slight
Odor Threshold	No information available
рН	Not applicable
Melting Point/Range	40 - 44 °C / 104 - 111.2 °F
Boiling Point/Range	96 - 98 °C / 204.8 - 208.4 °F @ 8 mmHg
Flash Point	111 °C / 231.8 °F
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	insoluble
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C8 H5 F3 O2 S
Molecular Weight	222.18
	10. Stability and reactivity

Reactive HazardNone known, based on information availableStabilityLight sensitive.Conditions to AvoidExcess heat. Exposure to light. Incompatible products.Incompatible MaterialsStrong oxidizing agentsHazardous Decomposition ProductsCarbon monoxide (CO), Carbon dioxide (CO2), Sulfur oxides, Gaseous hydrogen fluoride
(HF)Hazardous ReactionsNone under normal processing.

11. Toxicological information

Acute Toxicity

Product Information Component Information Toxicologically Synergistic Products Delayed and immediate effects as w	No information available vell as chronic effects from 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		
1,3-Butanedione, 4,4,4-trifluoro-1-(2-thie nyl)-	326-91-0	Not listed	Not listed	Not listed	Not listed	Not listed		
Mutagenic Effects		No information ava	ailable					
Reproductive Effect	ts	No information ava	ailable.					
Developmental Effe	cts	No information ava	ailable.					
Teratogenicity		No information ava	ailable.					
STOT - single exposision STOT - repeated ex		Respiratory syster None known	n					
Aspiration hazard		No information ava	ailable					
Symptoms / effects delayed	,both acute and	No information available						
Endocrine Disrupto	r Information	No information ava	No information available					
Other Adverse Effe	cts	The toxicological properties have not been fully investigated.						
12. Ecological information								
Ecotoxicity Do not empty into dra	ains.							
Persistence and De	gradability	Insoluble in water	Persistence is unli	kely based on info	rmation available.			
Bioaccumulation/ A	ccumulation	No information ava	ailable.					
Mobility		Is not likely mobile in the environment due its low water solubility. Will likely be mobile in tenvironment due to its volatility.						
			sal conside					
Waste Disposal Me	hods	Chemical waste ge hazardous waste. national hazardous	Chemical waste g	enerators must als	so consult local, reg	gional, and		
		14. Trar	sport inforr	mation				

	14. Transport information
DOT	Not regulated
DOT _ <u>TDG</u> IATA_	Not regulated
IATA_	Not regulated
IMDG/IMO	Not regulated
	15. Regulatory information

United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
1,3-Butanedione, 4,4,4-trifluoro-1-(2-thienyl)-	326-91-0	Х	ACTIVE	-

Legend:

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), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
1,3-Butanedione,	326-91-0	Х	-	206-316-7	-	-	Х	Х	KE-05-1314
4,4,4-trifluoro-1-(2-thienyl)-									

U.S. Federal Regulations

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 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): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
DOT Marine Pollutant	N
DOT Marine Pollutant DOT Severe Marine Pollutant U.S. Department of Homeland	N N

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	12-Sep-2014 18-Jan-2018 18-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	

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End of SDS