

SAFETY DATA SHEET

Creation Date 18-Sep-2012

Revision Date 26-Mar-2024

Revision Number 4

1. Identification

Product Name Tetracycline Cat No. : J61714

60-54-8

CAS No Synonyms

Recommended Use Uses advised against Laboratory chemicals. Food, drug, pesticide or biocidal product use.

No information available

Details of the supplier of the safety data sheet

<u>Company</u>

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757

Emergency Telephone Number

For information **US** call: 001-800-227-6701 / **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

Label Elements

Signal Word Warning

Hazard Statements Harmful if swallowed



Precautionary Statements Prevention Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Ingestion IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth Disposal Dispose of contents/container to an approved waste disposal plant <u>Hazards not otherwise classified (HNOC)</u> None identified WARNING. Reproductive Harm - https://www.p65warnings.ca.gov/.

3. Composition/Information on Ingredients

Component	CAS No	Weight %
Tetracycline	60-54-8	>85

4. First-aid	measures
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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, 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. Get medical attention if symptoms occur.
Most important symptoms and	None reasonably foreseeable.
effects Notes to Physician	Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available 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

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

Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO₂). Nitrogen oxides (NOx).

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	Flammability	Instability	Physical hazards
	2	1	0	N/A
		6. Accidental rele	ease measures	
Personal	Precautions	Ensure adequate ventilation.	Use personal protective equip	oment as required. Avoid dust
Environm	ental Precautions		he environment. See Section	12 for additional Ecological
Methods t Up	for Containment and Clea	n Sweep up and shovel into su containers for disposal.	itable containers for disposal.	Keep in suitable, closed
		7. Handling a		
Handling		Wear personal protective eq dust formation. Do not get in	uipment/face protection. Ensu eyes, on skin, or on clothing.	re adequate ventilation. Avoid Avoid ingestion and inhalation.
Storage.			ner tightly closed in a dry and ls. Bases. Strong oxidizing ag	
	8. E	xposure controls /		
<u>Exposure</u>	<u>Guidelines</u>	This product does not contai limitsestablished by the region	n any hazardous materials wit on specific regulatory bodies.	h occupational exposure
Engineeri	ng Measures	Ensure adequate ventilation, and safety showers are close	especially in confined areas. to the workstation location.	Ensure that eyewash stations
<u>Personal</u>	Protective Equipment			
Eye/fa	ce Protection		eyeglasses or chemical safety tion regulations in 29 CFR 191	
Skin a	and body protection	Wear appropriate protective	gloves and clothing to prevent	skin exposure.
Respi	ratory Protection	EN 149. Use a NIOSH/MSH	regulations found in 29 CFR 1 A or European Standard EN 1 d or if irritation or other sympto	
Recor	nmended Filter type:	Particulates filter conforming	to EN 143.	
Hygie	ne Measures	Handle in accordance with g	ood industrial hygiene and saf	ety practice.

Physical and chemical properties	9. P	hysical	and	chemi	cal p	oro	perties
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Physical State Appearance Odor **Odor Threshold** pН . Melting Point/Range Boiling Point/Range Flash Point **Evaporation Rate** Flammability (solid,gas) Flammability or explosive limits Upper Lower Vapor Pressure Vapor Density **Specific Gravity** Solubility Partition coefficient; n-octanol/water **Autoignition Temperature Decomposition Temperature** Viscosity Molecular Formula **Molecular Weight**

Solid White No information available No information available No information available 175 - 177 °C / 347 - 350.6 °F 4444 °C / 8031.2 °F No information available Not applicable No information available

No data available No data available No information available No information available No information available No data available No information available No information available No information available C22 H24 N2 O8 444.43

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Avoid dust formation. Incompatible products. Excess heat.
Incompatible Materials	Acids, Bases, Strong oxidizing agents
Hazardous Decomposition Product	s Carbon monoxide (CO), Carbon dioxide (CO ₂), Nitrogen oxides (NOx)
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Component Information										
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation							
Tetracycline	LD50 = 807 mg/kg (Rat)	Not listed	Not listed							
Toxicologically Synergistic No information available Products										
	s as well as chronic effects from sh	nort and long-term exposu	re							
rritation	No information available									
Sensitization No information available										
Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcin										

Component CAS No IARC NTP ACGIH OSHA Mexico										
Tetracycline	60-54-8	Not listed	Not listed	Not listed	Not listed	Not listed				
Mutagenic Effects	00010	No information available								
Reproductive Effects		No information ava	ailable.							
Developmental Effects	S	No information ava	ailable.							
Teratogenicity		No information ava	ailable.							
STOT - single exposu STOT - repeated expo		None known None known								
Aspiration hazard		No information ava	ailable							
Symptoms / effects,b delayed	oth acute and	No information ava	ailable							
Endocrine Disruptor	nformation	No information ava	ailable							
Other Adverse Effects	5	The toxicological properties have not been fully investigated.								
12. Ecological information										
<u>Ecotoxicity</u> Do not empty into drains.										
Persistence and Degra	adability	No information ava	ailable							
Bioaccumulation/ Acc	umulation	No information ava	formation available.							
Mobility		No information ava	ailable.							
	13. Disposal considerations									
Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.										
			sport inform	mation						
DOT		Not regulated								
TDG		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
Tetracycline	60-54-8	-	-	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

Not applicable

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
Tetracycline	60-54-8	-	-	200-481-9	-	Х		-	Х	KE-23770

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

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65

This product contains the following Proposition 65 chemicals.

Component	CAS No	California Prop. 65	Prop 65 NSRL	Category
Tetracycline	60-54-8	Developmental	-	Developmental
U.S. State Right-to-Know				

Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Tetracycline	Х	-	-	-	-

U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N 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

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization		REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Tetracycline	60-54-8	-	Use restricted. See item 75. (see link for restriction details)	-

REACH links

https://echa.europa.eu/substances-restricted-under-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)
Tetracycline	60-54-8	Not applicable	Not applicable	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

Other International Regulations

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
		Notification	Requirements		
Tetracycline	60-54-8	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information

Prepared By	Health, Safety and Environmental Department Email: chem.techinfo@thermofisher.com www.thermofisher.com
Creation Date	18-Sep-2012
Revision Date	26-Mar-2024
Print Date	26-Mar-2024
Revision Summary	New emergency telephone response service provider.

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