

SAFETY DATA SHEET

Revision Date 31-Mar-2024

Revision Number 3

1. Identification

Product Name

2,3,4,5-Tetrahydro-1H-1,4-benzodiazepine

Cat No.: H27843

CAS No Synonyms

Recommended Use Uses advised against

No information available Laboratory chemicals. Food, drug, pesticide or biocidal product use.

5946-39-4

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)

Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system. Category 1 B Category 1 Category 3

Label Elements

Signal Word Danger

Hazard Statements

Causes severe skin burns and eye damage May cause respiratory irritation



Precautionary Statements

Prevention

Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

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

Use only outdoors or in a well-ventilated area

Response

Immediately call a POISON CENTER or doctor/physician Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Skin 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 Ingestion IF SWALLOWED: Rinse mouth. DO NOT induce vomiting Storage Store locked up Store in a well-ventilated place. Keep container tightly closed Disposal Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC) None identified

3. Composition/Information on Ingredients

Compor	nent	CAS No	Weight %			
2,3,4,5-Tetrahydro-1H-	1,4-benzodiazepine	5946-39-4	<=100			
	4.	First-aid measures				
General Advice Show this safety data sheet to the doctor in attendance. Immediate medical attention required.						
Eye Contact	ye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes Immediate medical attention is required. Keep eye wide open while rinsing.					
Skin Contact		Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Call a physician immediately.				
Inhalation	control center the substance	to fresh air. If not breathing, give artificial respiration. Call a physician or poison center immediately. Do not use mouth-to-mouth method if victim ingested or inhale stance; give artificial respiration with the aid of a pocket mask equipped with a valve or other proper respiratory medical device.				
Ingestion		edical attention is required. Do NOT in hything by mouth to an unconscious pe				

ost important symptoms and fects Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation									
Notes to Physician									
	5. Fire-fightin	g measures							
Suitable Extinguishing Media	CO 2, dry chemical, dry san	d, 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 Lower	No data available No data available								
Sensitivity to Mechanical Impact									
Sensitivity to Static Discharge	No information available								
Specific Hazards Arising from the C The product causes burns of eyes, skin									
None known. Protective Equipment and Precautio As in any fire, wear self-contained brea protective gear. Thermal decompositio	thing apparatus pressure-de		ved or equivalent) and full						
<u>NFPA</u>									
Health 3	Flammability 1	Instability 0	Physical hazards -						
	6. Accidental rel	ease measures							
Personal Precautions			e personnel to safe areas. Avoid						
Environmental Precautions			v material to contaminate ground formation.						
Methods for Containment and Clean Up	Sweep up and shovel into s	uitable containers for disposa	I. Avoid dust formation.						
	7. Handling a	and storage							
Handling		quipment/face protection. Do r chemical fume hood. Do not be diate medical assistance.							
Storage.	Corrosives area. Keep cont	ainers tightly closed in a dry, o	cool and well-ventilated place.						
8. Ex	posure controls /	personal protecti	on						
Exposure Guidelines		in any hazardous materials w ion specific regulatory bodies.	ith occupational exposure						
	,								

Engineering Measures	Ensure that eyewash stations 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	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.
Recommended Filter type:	Particulates filter conforming to EN 143.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

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Physical State	Solid Crystalline
Appearance	Light brown
Odor	No information available
Odor Threshold	No information available
рН	No information available
Melting Point/Range	96 - 100 °C / 204.8 - 212 °F
Boiling Point/Range	No information available
Flash Point	No information available
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	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C9 H12 N2
Molecular Weight	148.21
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10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Product	ts None under normal use conditions
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity								
Product Information Component Informa Toxicologically Syne Products	tion ergistic	No information ava						
Delayed and immedi	ate effects as w	ell as chronic effec	cts from short an	na long-term expo	<u>osure</u>			
Irritation		No information ava	ilable					
Sensitization		No information ava	ilable					
Carcinogenicity		The table below inc	dicates whether e	ach agency has lis	ted any ingredient	as a carcinogen.		
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico		
2,3,4,5-Tetrahydro-1H- 1,4-benzodiazepine	5946-39-4	Not listed	Not listed	Not listed	Not listed	Not listed		
Mutagenic Effects		No information ava	ilable					
Reproductive Effect	S	No information ava	ilable.					
Developmental Effect	cts	No information ava	ilable.					
Teratogenicity		No information ava	ilable.					
STOT - single expos STOT - repeated exp		Respiratory system None known						
Aspiration hazard		No information ava	ilable					
Symptoms / effects delayed	both acute and	Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation						
Endocrine Disruptor	Information	No information available						
Other Adverse Effec	ts	The toxicological p	roperties have no	t been fully investig	gated.			
		12. Ecolo	ogical infor	mation				
<u>Ecotoxicity</u> Do not empty into dra	ins.							
Persistence and Dec	gradability	No information ava	ilable					
Bioaccumulation/ A	cumulation	No information available.						
Mobility	obility No information available.							
		13. Dispo	sal conside	erations				
Waste Disposal Met	ste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.					gional, and		
		14. Tran	sport infor	mation				
DOT UN-No Proper Shipping	Name	UN3259 AMINES, SOLID, C	CORROSIVE, N.C).S.				

Technical Name Hazard Class Packing Group TDG	(2,3,4,5-Tetrahydro-1H-1,4-benzodiazepine) 8 III
UN-No	UN3259
Proper Shipping Name	AMINES, SOLID, CORROSIVE, N.O.S.
Hazard Class	8
Packing Group	III
UN-No	UN3259
Proper Shipping Name	AMINES, SOLID, CORROSIVE, N.O.S.*
Hazard Class	8
Packing Group	III
IMDG/IMO	
UN-No	UN3259
Proper Shipping Name	AMINES, SOLID, CORROSIVE, N.O.S.
Hazard Class	8
Packing Group	III
	15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
2,3,4,5-Tetrahydro-1H-1,4-benzodi	5946-39-4	-	-	-
azepine				

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)

TSCA 12(b) - Notices of Export

Not applicable

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
2,3,4,5-Tetrahydro-1H-1,4-benzodi	5946-39-4	-	-	-	-	-		-	-	-
azepine										

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 ActNot applicableOSHA - Occupational Safety and
Health AdministrationNot 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 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
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

REACH (1907/2006) -Annex XIV - Substances Component CAS No REACH (1907/2006) -**REACH Regulation (EC** 1907/2006) article 59 Annex XVII - Restrictions on Certain Dangerous Subject to Authorization Candidate List of Substances of Very High Substances Concern (SVHC) 2,3,4,5-Tetrahydro-1H-1,4-benzodia 5946-39-4 zepine

Not applicable

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)
2,3,4,5-Tetrahydro-1H-1,4-be nzodiazepine	5946-39-4	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) -	Seveso III Directive (2012/18/EC) -	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
			Qualifying Quantities			
L			for Major Accident	for Safety Report		

		Notification	Requirements		
2,3,4,5-Tetrahydro-1H-1,4-be nzodiazepine	5946-39-4	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
Revision Date Print Date Revision Summary	31-Mar-2024 31-Mar-2024 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