

Safety Data Sheet 2H165X1 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Version: 1.0

Date of issue: 04/15/2016

1.1. Identification	
Product form	: Substance
Substance name	: 3,4-Dihydro-2H-1,5-benzodioxepine-7-carbonyl chloride
CAS No	: 306934-86-1
Product code	: 2H16-5-X1
Formula	: C10H9CIO3
Synonyms	: 7-(Chlorocarbonyl)-3,4-dihydro-2H-1,5-benzodioxepine; 7-(Chloroformyl)-3,4-dihydro-2H-1,5-
	benzodioxepine
Other means of identification	: MFCD02677702
1.2. Relevant identified uses of the su	ubstance or mixture and uses advised against
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development
1.3. Details of the supplier of the safe	ety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of America T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs.	
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identification	on
2.1. Classification of the substance o	
Classification (GHS-US) Skin Corr. 1B H314 - Causes severe skin Eye Dam. 1 H318 - Causes serious eye	damage
Skin Corr. 1BH314 - Causes severe skinEye Dam. 1H318 - Causes serious eyeSTOT SE 3H335 - May cause respirato	damage
Skin Corr. 1BH314 - Causes severe skinEye Dam. 1H318 - Causes serious eyeSTOT SE 3H335 - May cause respiratoFull text of H-phrases: see section 162.2.Label elements	damage
Skin Corr. 1B H314 - Causes severe skin Eye Dam. 1 H318 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	damage
Skin Corr. 1B H314 - Causes severe skin Eye Dam. 1 H318 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	damage by irritation : : : : : : : : : : : : : : : : : : :
Skin Corr. 1B H314 - Causes severe skin Eye Dam. 1 H318 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	damage by irritation
Skin Corr. 1B H314 - Causes severe skin Eye Dam. 1 H318 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	damage by irritation : : : : : : : : : : : : : : : : : :

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			 Store locked up Dispose of contents/container to an approximation of the state of t	proved waste d	isposal plant	
2.3.	Other hazards					
Other ha	azards not contributing to the ation	: Lachr	ymator.			
2.4.	Unknown acute toxicity (GHS US)					
Not app	licable					
SECTI	ON 3: Composition/informatior	on in	gredients			
3.1.	Substance		-			
Substan	ce type	: Mono	-constituent			
Name			Product identifier	%	Classification (GHS-US	5)
3,4-Dih (Main co	ydro-2H-1,5-benzodioxepine-7-carbonyl chloride nstituent)	e	(CAS No) 306934-86-1	<= 100	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335	
Full text	of H-phrases: see section 16					
3.2.	Mixture					
Not app						
SECTI	ON 4: First aid measures					
4.1.	Description of first aid measures					
First-aid	measures general	where	e of accident or if you feel unwell, seek possible). Move the affected personne	away from the	contaminated area.	
First-aid	measures after inhalation		we person to fresh air and keep comfort ation. Get immediate medical advice/att		g. If not breathing, give ar	tificial
First-aid	measures after skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Get immediate medical advice/attention.				
First-aid	measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.				
First-aid	measures after ingestion		DT induce vomiting. Never give anything out with water. Get immediate medical			se
4.2.	Most important symptoms and effect	s, both a	acute and delayed			
Symptor	ns/injuries		nost important known symptoms and effender in section 11.	ects are describe	ed in the labelling (see sec	ction
Symptor	ns/injuries after inhalation		ial is destructive to tissue of the mucuou ness of breath, headache, nausea.	is membranes a	nd upper respiratory tract.	Cough,
4.3.	Indication of any immediate medical	attentio	n and special treatment needed			
Treat sy	mptomatically.					
SECTI	ON 5: Firefighting measures					
5.1.	Extinguishing media					
Suitable	extinguishing media		ol resistant foam. Carbon dioxide. Dry p priate for surrounding fire.	owder. Water sp	oray. Use extinguishing me	edia
5.2.	Special hazards arising from the sub	stance o	or mixture			
Fire haz	ard	: Thern	nal decomposition generates: Carbon o	ides. Hydrogen	chloride.	
Reactivi	ty		s with water, generates gases or heat. I se highly explosive/flammable hydrogen		ure to water with some me	etals to
5.3.	Advice for firefighters					
Firefight	ing instructions	: In cas	e of fire: Evacuate area.			
Protectio	on during firefighting		gas tight chemically protective clothing atus. For further information refer to see			
SECTI	ON 6: Accidental release meas	ures				
6.1.	Personal precautions, protective equ		and emergency procedures			
	measures	: Evacu	uate unnecessary personnel. Ensure ad ne gas, fumes, vapor or spray.	equate air ventila	ation. Do not breathe dust.	Do not
6.1.1.	For non-emergency personnel					
Emerge	ncy procedures	: Only	qualified personnel equipped with suitab	le protective equ	uipment may intervene.	
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6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment. Notify authoritie	es if product enters sewers or public waters.
6.3. Methods and material for containment	nt and cleaning up
For containment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.
Methods for cleaning up	: Minimize generation of dust. Take up large spills with pump or vacuum and finish with dry
	chemical absorbent. Use explosion-proof equipment. Take up small spills with dry chemical absorbent. Sweep or shovel spills into appropriate container for disposal. Ventilate area.
Other information	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Do not handle until all safety precautions have been read and understood. Ensure good
	ventilation of the work station. Do not breathe dust, fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, includin	g any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Moisture sensitive. Keep contents under inert gas.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.
Storage area	: Store in dry, cool, well-ventilated area.
SECTION 8: Exposure controls/perso	nal protection
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	nal protection
8.1. Control parameters	nal protection
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 8.1. Control parameters No additional information available 8.2. Exposure controls Appropriate engineering controls Hand protection Eye protection Skin and body protection Respiratory protection Other information SECTION 9: Physical and chemical p 9.1. Information on basic physical and chemical p Physical state Appearance Color Odor threshold	 Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Protective gloves. 29 CFR 1910.138: Hand Protection. Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection. Wear suitable protective clothing. In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection. Safety shoes. 29 CFR 1910.136: Foot Protection.
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Flammability (solid, gas)

: No data available

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Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Molecular mass	: 212.63 g/mol
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with water, generates gases or heat. Reacts on exposure to water with some metals to release highly explosive/flammable hydrogen gas.

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Keep away from heat, sparks and flame. Moisture.

10.5. Incompatible materials

Alcohols. Oxidizing agents. Strong bases. Water.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	

: Not classified

Skin corrosion/irritation	: Causes severe skin burns and eye damage.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.

	N 12: Ecological information			
12.1.	Toxicity			
No addition	nal information available			

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12.2.	Persistence and degradability
No addi	tional information available
12.3.	Bioaccumulative potential
No addi	tional information available
12.4.	Mobility in soil
No addi	tional information available
12.5.	Other adverse effects
No addi	tional information available

SECTION 13: Disposal consideration	S
13.1. Waste treatment methodsWaste treatment methodsWaste disposal recommendationsAdditional information	 Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber. Dispose of contents/container in accordance with licensed collector's sorting instructions. Recycle the material as far as possible.
SECTION 14: Transport information	
Department of Transportation (DOT) In accordance with DOT Transport document description	: UN3261 Corrosive solid, acidic, organic, n.o.s., 8, III
UN-No.(DOT) Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)	 : UN3261 : Corrosive solid, acidic, organic, n.o.s. : 8 - Class 8 - Corrosive material 49 CFR 173.136 : 8 - Corrosive
Packing group (DOT) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Symbols DOT Special Provisions (49 CFR 172.102)	 III - Minor Danger 213 240 G - Identifies PSN requiring a technical name IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2). IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner. T1 - 1.5 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx) DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 154 : 25 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 100 kg
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
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Other information	: No supplementary information available.
TDG	
No additional information available	
Transport by sea	
UN-No. (IMDG)	: 3261
Proper Shipping Name (IMDG)	: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.
Class (IMDG)	: 8 - Corrosive substances
Packing group (IMDG)	: III - substances presenting low danger
Air transport	
UN-No. (IATA)	: 3261
Proper Shipping Name (IATA)	: Corrosive solid, acidic, organic, n.o.s.
Class (IATA)	: 8 - Corrosives
Packing group (IATA)	: III - Minor Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

3,4-Dihydro-2H-1,5-benzodioxepine-7-carbonyl chloride	CAS No 306934-86-1	100%
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This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA

No additional information available

EU-Regulations No additional information available

National regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

SECTION 16: Other information

Full text of H-phrases:

Eye Dam. 1	Serious eye damage/eye irritation Category 1
Skin Corr. 1B	Skin corrosion/irritation Category 1B
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H335	May cause respiratory irritation

NFPA health hazard

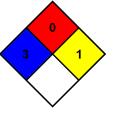
NFPA fire hazard

NFPA reactivity

: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.

: 0 - Materials that will not burn.

: 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.



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HMIS III Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	: 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

SDS US (GHS HazCom 2012)

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.