

Safety Data Sheet 4H17111 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 06/17/2019 Version: 1.0

SECTION 1: Identification 1.1. Identification	
Product form	: Substance
Substance name	: 1,1'-Carbonyldi(1H-imidazole)
CAS No	: 530-62-1
Product code	: 4H17-1-11
Formula	: C7H6N4O
Synonyms	: Di(1H-imidazol-1-yl)methanone; CDI
Other means of identification	: MFCD00005286
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 Americ 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 of	or mixture
Classification (GHS-US)	
Eye Dam. 1 H318 - Causes seriou Repr. 1B H360 - May damage for STOT SE 3 H335 - May cause rest Full text of H-phrases: see section 16	ertility or the unborn child
2.2. Label elements GHS-US labeling	
Hazard pictograms (GHS-US)	
	GH505 GH507 GH508
Signal word (GHS-US)	GHS05 GHS07 GHS08 : Danger
Signal word (GHS-US) Hazard statements (GHS-US)	GHS05 GHS07 GHS08 Danger H302 - Harmful if swallowed H314 - Causes severe skin burns and eye damage H335 - May cause respiratory irritation H360 - May damage fertility or the unborn child

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		P308 P310 P321 P330 P363 P403 P405	 if present and easy to do. Continue rin +P313 - If exposed or concerned: Get me Immediately call a POISON CENTER of Specific treatment (see supplemental filler in the second se	edical advice/att or doctor/ physic rst aid instructio use Keep container	ian ins on this label) tightly closed
2.3.	Other hazards				
No additi	onal information available				
2.4.	Unknown acute toxicity (GHS US)				
Not appli	cable				
SECTIO	ON 3: Composition/informatio	n on in	gredients		
3.1.	Substance				
Substanc	e type	: Mono	o-constituent		
Name			Product identifier	%	Classification (GHS-US)
1,1'-Carb (Main con:	ponyldi(1H-imidazole) stituent)		(CAS No) 530-62-1	<= 100	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 1B, H360 STOT SE 3, H335
Full text of	of H-phrases: see section 16				
3.2.	Mixture				
Not appli					
SECTIO	ON 4: First aid measures				
4.1.	Description of first aid measures				
First-aid r	measures general		se of accident or if you feel unwell, seek re possible). Move the affected personnel		
First-aid r	measures after inhalation	: Rem	ove person to fresh air and keep comforta ration. Get immediate medical advice/atte	able for breathin	
First-aid r	measures after skin contact		n with plenty of soap and water. Remove cal advice/attention.	contaminated cl	othing and shoes. Get immediate
First-aid r	measures after eye contact		ediately flush eyes thoroughly with water f ent and easy to do. Continue rinsing. Get		
First-aid r	measures after ingestion		OT induce vomiting. Never give anything h out with water. Get immediate medical		
4.2.	Most important symptoms and effect	ts, both	acute and delayed		
Symptom	ns/injuries		nost important known symptoms and effe and/or in section 11.	cts are describe	ed in the labelling (see section
Symptom	s/injuries after inhalation		rial is destructive to tissue of the mucuou ness of breath, headache, nausea.	s membranes a	nd upper respiratory tract. Cough,
4.3.	Indication of any immediate medical	attentio	n and special treatment needed		
Treat syn	nptomatically.				
SECTIO	ON 5: Firefighting measures				
5.1.	Extinguishing media				
Suitable e	extinguishing media		nol resistant foam. Carbon dioxide. Dry po opriate for surrounding fire.	owder. Water sp	ray. Use extinguishing media
5.2.	Special hazards arising from the sul	ostance	or mixture		
		: Therr	mal decomposition generates: Carbon ox	des. Nitrogen o	xides.
⁻ ire haza	ird				
	Advice for firefighters				
Fire haza <mark>5.3.</mark> Firefightir		: In ca	se of fire: Evacuate area.		

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SECTION 6: Accidental release n	
	e equipment and emergency procedures
General measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe dust.
6.1.1. For non-emergency personnel	
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information
Toteetive equipment	refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	· · ·
	thorities if product enters sewers or public waters.
· ·	
5.3. Methods and material for contained	
For containment	: Stop leak if safe to do so.
Methods for cleaning up	: Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.
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 storag	e
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, mist, spray. Wear personal protective
	equipment. Avoid contact with skin and eyes.
lygiene 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.
2.2. Conditions for safe storage, inc	
echnical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Moisture sensitive. Keep contents under inert gas.
ncompatible materials	: Refer to Section 10 on Incompatible Materials.
Storage area	: Store in dry, cool, well-ventilated area.
SECTION 8: Exposure controls/p	ersonal protection
3.1. Control parameters	
No additional information available	
3.2. Exposure controls	
Appropriate engineering controls	: 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.
land protection	: Protective gloves. 29 CFR 1910.138: Hand Protection.
Eye protection	: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory
	Protection.
Other information	: Safety shoes. 29 CFR 1910.136: Foot Protection.
SECTION 9: Physical and chemic	cal properties
0.1. Information on basic physical a	
Physical state	: Solid
Color	: No data available
Ddor	: No data available
Ddor threshold	: No data available
pH	: No data available

Melting point Freezing point : 117 - 122 °C

: No data available

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Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
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	: 162.15 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

Reactivity No additional information available

10.2. **Chemical stability**

10.1.

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.

10.5. **Incompatible materials**

Strong acids. Strong bases. Strong oxidizing agents.

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 informati	on		
11.1. Information on toxicological effects			
Acute toxicity	: Oral: Harmful if swallowed	ł.	
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	: May damage fertility or the	e unborn child.	
Specific target organ toxicity (single exposure)	: May cause respiratory irrit	tation.	
Specific target organ toxicity (repeated exposure)	: Not classified		
Aspiration hazard	: Not classified		
Symptoms/injuries after inhalation	: Material is destructive to t shortness of breath, head	issue of the mucuous membranes and upper respi ache, nausea.	ratory tract. Cough,
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SECTION 12: Ecological information			
12.1.	Toxicity		
No addi	tional information available		
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 considerations			
13.1. Waste treatment methods			
Waste treatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.		
Waste disposal recommendations	: Dispose of contents/container in accordance with licensed collector's sorting instructions.		
Additional information	: Recycle the material as far as possible.		

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT Transport document description

UN-No.(DOT)

Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)

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)

- : UN3263 Corrosive solid, basic, organic, n.o.s., 8, II
- : UN3263
- : Corrosive solid, basic, organic, n.o.s.
- : 8 Class 8 Corrosive material 49 CFR 173.136
- : 8 Corrosive



- : II Medium Danger
- : 212
- : 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). IP2 - When IBCs other than metal or rigid plastics IBCs are used, they must be offered for transportation in a closed freight container or a closed transport vehicle. IP4 - Flexible, fiberboard or wooden IBCs must be sift-proof and water-resistant or be fitted with a sift-proof and water-resistant liner. T3 - 2.65 178.274(d)(2) Normal..... 178.275(d)(2) TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.

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about any to react a register, rel. 17, res. 667 menady,	
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 15 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 50 kg
DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
DOT Vessel Stowage Other	: 52 - Stow "separated from" acids
Other information	: No supplementary information available.
TDG	
No additional information available	
Transport by sea	
UN-No. (IMDG)	: 3263
Proper Shipping Name (IMDG)	: CORROSIVE SOLID, BASIC, ORGANIC, N.O.S.
Class (IMDG)	: 8 - Corrosive substances
Packing group (IMDG)	: II - substances presenting medium danger
Air transport	
UN-No. (IATA)	: 3263
Proper Shipping Name (IATA)	: Corrosive solid, basic, organic, n.o.s.
Class (IATA)	: 8 - Corrosives
Packing group (IATA)	: II - Medium Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

1,1'-Carbonyldi(1H-imidazole) (530-62-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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

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	
1,1'-Carbonyldi(1H-imidazole) (530-62-1)	
Listed on the Canadian DSL (Domestic Sustances List)	
EU-Regulations No additional information available	

National regulations

1,1'-Carbonyldi(1H-imidazole) (530-62-1)Listed on the AICS (Australian Inventory of Chemical Substances)Listed on the Japanese ENCS (Existing & New Chemical Substances) inventoryListed on the Japanese ISHL (Industrial Safety and Health Law)Listed on the Korean ECL (Existing Chemicals List)Listed on NZIoC (New Zealand Inventory of Chemicals)Listed on INSQ (Mexican national Inventory of Chemical Substances)Listed on the TCSI (Taiwan Chemical Substance Inventory)

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

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SECTION 16: Other information

Full text of H-phrases:

Full lex	l ol n-philases.	
	Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
	Eye Dam. 1	Serious eye damage/eye irritation Category 1
	Repr. 1B	Reproductive toxicity Category 1B
	Skin Corr. 1B	Skin corrosion/irritation Category 1B
	STOT SE 3	Specific target organ toxicity (single exposure) Category 3
	H302	Harmful if swallowed
	H314	Causes severe skin burns and eye damage
	H318	Causes serious eye damage
	H335	May cause respiratory irritation
	H360	May damage fertility or the unborn child
NFPA	ire hazard	incapacitation or possible residual injury unless prompt medical attention is given. : 1 - Must be preheated before ignition can occur.
NFPA	reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS I	II Rating	
Health		: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flamm	ability	 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)
Physica	al	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT

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.

react with water, polymerize, decompose, condense, or self-react. Non-Explosives.