

Safety Data Sheet 4H151N4 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 11/13/2018 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: 1H-Indole-3-carboxaldehyde	3	
CAS No	: 487-89-8		
Product code	: 4H15-1-N4		
Formula	: C9H7NO		
Synonyms	: 3-Formyl-1H-indole		
Other means of identification	: MFCD00005622		
1.2. Relevant identified uses of the	e substance or mixture and uses adv	vised against	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and deve	elopment	
1.3. Details of the supplier of the same	afety data sheet		
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Amer T (386) 462-0788 - F (386) 462-7097			
info@synquestlabs.com - www.synquestla			
1.4. Emergency telephone number			
Emergency number	: (844) 523-4086 (3E Compar	ny - Account 10069)	
Full text of H-phrases: see section 16 2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)			
	GHS07		
Signal word (GHS-US)	: Warning	_	
Hazard statements (GHS-US)	: H315 - Causes skin irritatior H319 - Causes serious eye H335 - May cause respirato	irritation	
Precautionary statements (GHS-US)	 P261 - Avoid breathing dust P264 - Wash skin thoroughl P271 - Use only outdoors or P280 - Wear protective glov P302+P352 - If on skin: Was P304+P340 - If inhaled: Rer P305+P351+P338 - If in eye lenses, if present and easy t P312 - Call a POISON CEN P321 - Specific treatment (s P332+P313 - If skin irritation P337+P313 - If sye irritation 	t, mist, spray ly after handling r in a well-ventilated area res/protective clothing/eye protection/face protection sh with plenty of soap and water move person to fresh air and keep comfortable for es: Rinse cautiously with water for several minutes to do. Continue rinsing ITER or doctor/physician if you feel unwell see supplemental first aid instructions on this label) n occurs: Get medical advice/attention	breathing a. Remove contac
	P403+P233 - Store in a well P405 - Store locked up	Investigation of the second advice ad	

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

2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
SECTION 3: Composition/informatio	n on in	gredients		
3.1. Substance				
Substance type	: Mono	-constituent		
Name		Product identifier	%	Classification (GHS-US)
1H-Indole-3-carboxaldehyde		(CAS No) 487-89-8	<= 100	Skin Irrit. 2, H315
(Main constituent)				Eye Irrit. 2A, H319 STOT SE 3, H335
Full text of H-phrases: see section 16				
3.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
4.1. Description of first aid measures				
First-aid measures general		se of accident or if you feel unwell, seek r e possible). Move the affected personnel		
First-aid measures after inhalation		ove person to fresh air and keep comforta ation. Get medical advice/attention.	ble for breathin	g. If not breathing, give artificial
First-aid measures after skin contact	: Wash	with plenty of soap and water. Get medi	cal advice/atten	tion.
First-aid measures after eye contact		diately flush eyes thoroughly with water f nt and easy to do. Continue rinsing. Get		
First-aid measures after ingestion		OT induce vomiting. Never give anything n out with water. Get medical advice/atter		unconscious person. Rinse
4.2. Most important symptoms and effec	ts, both	acute and delayed		
Symptoms/injuries		nost important known symptoms and effe nd/or in section 11.	cts are describe	ed in the labelling (see section
4.3. Indication of any immediate medical	attentio	n and special treatment needed		
Freat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media		ol resistant foam. Carbon dioxide. Dry po priate for surrounding fire.	wder. Water sp	ray. Use extinguishing media
5.2. Special hazards arising from the sul	ostance o	or mixture		
Fire hazard	: Thern	nal decomposition generates: Carbon oxi	des. Nitrogen o	xides.
	: Therr	nal decomposition generates: Carbon oxi	des. Nitrogen o	xides.
5.3. Advice for firefighters		nal decomposition generates: Carbon oxi se of fire: Evacuate area.	des. Nitrogen o	xides.
Fire hazard 5.3. Advice for firefighters Firefighting instructions Protection during firefighting	: In cas : Wear		n combination w	rith self contained breathing
5.3. Advice for firefighters Firefighting instructions Protection during firefighting	: In cas : Wear appar	se of fire: Evacuate area. gas tight chemically protective clothing ir	n combination w	rith self contained breathing
5.3. Advice for firefighters Firefighting instructions Protection during firefighting SECTION 6: Accidental release meas	: In cas : Wear appar sures	se of fire: Evacuate area. gas tight chemically protective clothing in ratus. For further information refer to sect	n combination w	rith self contained breathing
5.3. Advice for firefighters Firefighting instructions Protection during firefighting SECTION 6: Accidental release meas 5.1. Personal precautions, protective equ	: In cas : Wear appar SURES uipment	se of fire: Evacuate area. gas tight chemically protective clothing in ratus. For further information refer to sect	n combination w ion 8: "Exposure	ith self contained breathing e controls/personal protection".
5.3. Advice for firefighters Firefighting instructions Protection during firefighting SECTION 6: Accidental release meas 5.1. Personal precautions, protective equipmental measures	: In cas : Wear appar SURES uipment	se of fire: Evacuate area. gas tight chemically protective clothing ir atus. For further information refer to sect	n combination w ion 8: "Exposure	ith self contained breathing e controls/personal protection".
5.3. Advice for firefighters Firefighting instructions Protection during firefighting SECTION 6: Accidental release meas 6.1. Personal precautions, protective equipmentation General measures	: In cas : Wear appar sures uipment : Evacu	se of fire: Evacuate area. gas tight chemically protective clothing ir atus. For further information refer to sect	n combination w ion 8: "Exposure quate air ventila	ith self contained breathing e controls/personal protection". tion. Do not breathe dust.
5.3. Advice for firefighters Firefighting instructions Protection during firefighting SECTION 6: Accidental release meas 6.1. Personal precautions, protective equipation General measures 6.1.1. For non-emergency personnel	: In cas : Wear appar sures uipment : Evacu	se of fire: Evacuate area. gas tight chemically protective clothing in atus. For further information refer to sect and emergency procedures uate unnecessary personnel. Ensure ade	n combination w ion 8: "Exposure quate air ventila	ith self contained breathing e controls/personal protection". tion. Do not breathe dust.
5.3. Advice for firefighters Firefighting instructions Protection during firefighting SECTION 6: Accidental release meas 6.1. Personal precautions, protective equipmental measures 6.1.1. For non-emergency personnel Emergency procedures	: In cas : Wear appar sures uipment : Evacu : Only o : Do no	se of fire: Evacuate area. gas tight chemically protective clothing in atus. For further information refer to sect and emergency procedures uate unnecessary personnel. Ensure ade	n combination w ion 8: "Exposure quate air ventila e protective equip	ith self contained breathing e controls/personal protection". ition. Do not breathe dust.

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

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

6.3. Methods and material for containment and cleaning up				
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 stora	ge			
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.			
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, in	ncluding any incompatibilities			
Technical measures	: Comply with applicable regulations.			
Storage conditions	: Keep container closed when not in use. Keep away from ignition sources. Air sensitive. Keep contents under inert gas.			
Incompatible materials	: Refer to Section 10 on Incompatible Materials.			

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

Storage area

No additional information available

8.2. 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.
Hand 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.

: Store in dry, cool, well-ventilated area.

SECTION 9: Physical and chemica	l properties		
9.1. Information on basic physical and	I chemical properties		
Physical state	: Solid		
Color	: No data available		
Odor	: No data available		
Odor threshold	: No data available		
рН	: No data available		
Melting point	: 190 - 192 °C		
Freezing point	: No data available		
Boiling point	: No data available		
Flash point	: 240 °C		
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	: 145.158 g/mol		
11/14/2018	EN (English US)	SDS ID: 4H151N4	3/6

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

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				
0.1. Reactivity				
No additional information available				
10.2. Chemical stability				
The product is stable at normal handling and sto	The product is stable at normal handling and storage conditions.			
10.3. Possibility of hazardous reactions				
No additional information available	lo additional information available			
10.4. Conditions to avoid	10.4. Conditions to avoid			
Keep away from heat, sparks and flame.				
10.5. Incompatible materials				
Oxidizing agents. Strong bases. Strong reducing	g agents.			
10.6. Hazardous decomposition products	S			
	zardous decomposition products should not be produced. Hazardous decomposition products in case of			
fire, see Section 5.				
SECTION 11: Toxicological informat	tion			
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SECT	TION 12: Ecological informat	ion		
12.1.	Toxicity			
No add	litional information available			
12.2.	Persistence and degradability			
No add	litional information available			
12.3.	Bioaccumulative potential			
No add	litional information available			
12.4.	Mobility in soil			
No add	litional information available			
12.5.	Other adverse effects			
No add	litional information available			
11/14/2	n18	EN (English US)	SDS ID: 4H151N4	4/6

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 13: Disposal consider	ations
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.
Department of Transportation (DOT)	
n accordance with DOT	
Not regulated for transport	
TDG	
No additional information available	
Transport by sea	

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

1H-Indole-3-carboxaldehyde (487-89-8)

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
1H-Indole-3-carboxaldehyde (487-89-8)
Listed on the Canadian NDSL (Non-Domestic Substances List)

EU-Regulations

No additional information available

National regulations

1H-Indole-3-carboxaldehyde (487-89-8) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and 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

SECTION 16: Other information

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

Full tex	t of H-phrases:	
	Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
	Skin Irrit. 2	Skin corrosion/irritation Category 2
	STOT SE 3	Specific target organ toxicity (single exposure) Category 3
	H315	Causes skin irritation
	H319	Causes serious eye irritation
	H335	May cause respiratory irritation
NFPA 1	health hazard fire hazard reactivity	 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given. 0 - Materials that will not burn. 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS I	II Rating	
Health		: 2 Moderate Hazard - Temporary or minor injury may occur
Flamm	ability	: 0 Minimal Hazard - Materials that will not burn
Physica	al	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

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.