

Safety Data Sheet 3H32526 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 06/14/2018 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 2-Chloro-6-(trichloromethyl)pyridine
CAS No	: 1929-82-4
Product code	: 3H32-5-26
Formula	: C6H3Cl4N
Synonyms	: Nitrapyrin
Other means of identification	: MFCD00072500
1.2. Relevant identified uses of the	substance 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 sa	fety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Ameri T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlab	
1.4. Emergency telephone number Emergency number	: (844) 523-4086 (3E Company - Account 10069)
Aquatic Acute 2 H401 - Toxic to ac	kin irritation erious eye irritation e respiratory irritation
2.2. Label elements	
GHS-US labeling Hazard pictograms (GHS-US)	
Signal word (GHS-US)	GHS06 GHS07 GHS09 : Danger
Signal word (GHS-US) Hazard statements (GHS-US)	 Danger H302 - Harmful if swallowed H311 - Toxic in contact with skin H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation H411 - Toxic to aquatic life with long lasting effects
Precautionary statements (GHS-US)	 P261 - Avoid breathing dust, mist, spray P264 - Wash skin thoroughly after handling P270 - Do not eat, drink or smoke when using this product P271 - Use only outdoors or in a well-ventilated area P273 - Avoid release to the environment P280 - Wear protective gloves/protective clothing/eye protection/face protection P301+P312 - If swallowed: Call a POISON CENTER or doctor/ physician if you feel unwell P302+P352 - If on skin: Wash with plenty of soap and water P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
06/14/2018	EN (English US) SDS ID: 3H32526 Page 1

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

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contac lenses, if present and easy to do. Continue rinsing P312 - Call a POISON CENTER or doctor/physician if you feel unwell P321 - Specific treatment (see supplemental first aid instructions on this label) P330 - Rinse mouth P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention
lenses, if present and easy to do. Continue rinsing P312 - Call a POISON CENTER or doctor/physician if you feel unwell P321 - Specific treatment (see supplemental first aid instructions on this label) P330 - Rinse mouth P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention
P312 - Call a POISON CENTER or doctor/physician if you feel unwell P321 - Specific treatment (see supplemental first aid instructions on this label) P330 - Rinse mouth P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention
P321 - Specific treatment (see supplemental first aid instructions on this label) P330 - Rinse mouth P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention
P330 - Rinse mouth P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention
P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention
P361 - Take off immediately all contaminated clothing
P362+P364 - Take off contaminated clothing and wash it before reuse
P363 - Wash contaminated clothing before reuse
P391 - Collect spillage
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P405 - Store locked up
P501 - Dispose of contents/container to an approved waste disposal plant

Other hazards 2.3.

No additional information available

Unknown acute toxicity (GHS US) 2.4.

Not applicable

SECTION 3: Composition/information on ingredients

Substance 3.1. Substance type

: Mono-constituent

Name	Product identifier	%	Classification (GHS-US)
2-Chloro-6-(trichloromethyl)pyridine (Main constituent)	(CAS No) 1929-82-4	<= 100	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Aquatic Acute 2, H401 Aquatic Chronic 2, H411

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	S
First-aid measures general	: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Move the affected personnel away from the contaminated area.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get immediate medical advice/attention.
First-aid measures after skin contact	: Wash with plenty of soap and water. 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	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.
4.2. Most important symptoms and e	effects, both acute and delayed
Symptoms/injuries	: The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.
4.2 Indication of any immediate mas	licel attention and anosis fractment needed

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECT	ION 5: Firefighting measures	
5.1.	Extinguishing media	
Suitable	extinguishing media	: Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.
5.2.	Special hazards arising from the su	bstance or mixture
Fire haz	zard	: Thermal decomposition generates: Carbon oxides. Hydrogen chloride. Nitrogen oxides.
5.3.	Advice for firefighters	
Firefigh	ting instructions	: In case of fire: Evacuate area.
Protecti	on during firefighting	: Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".

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

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective 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 refer to section 8: "Exposure controls/personal protection".	
6.2. Environmental precautions		
Avoid release to the environment. Notify authorit	ies if product enters sewers or public waters.	
6.3. Methods and material for containme	ent 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 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, 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, includi	ng any incompatibilities	
Technical measures	: Comply with applicable regulations.	
Storage conditions	: Keep container closed when not in use.	
Incompatible materials	: Refer to Section 10 on Incompatible Materials.	
Storage area	: Store in dry, cool, well-ventilated area.	
SECTION 8: Exposure controls/pers	onal protection	

8.1. Control parameters		
2-Chloro-6-(trichloromethyl)pyridine (1929-82-4)		
ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³
ACGIH	ACGIH STEL (mg/m³)	20 mg/m³
ACGIH	Remark (ACGIH)	Liver dam
OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction)

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.	
SECTION 9: Physical and chemical properties		

9.1. Information on basic physical and chemical properties
Physical state : Solid
Appearance : Colorless solid.

Safety Data Sheet

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

Color	: Colorless
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: 63 - 65 °C
Freezing point	: No data available
Boiling point	: 136 - 138 °C (@ 11 mm Hg)
Flash point	: 100 °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	: 230.907 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
No additional information available
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.
10.5. Incompatible materials
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 information

11.1. Information on toxicological effects

Acute toxicity

: Oral: Harmful if swallowed. Dermal: Toxic in contact with skin.

2-Chloro-6-(trichloromethyl)pyridine (1929-82-4)	
LD50 oral rat	940 mg/kg
LD50 dermal rabbit	850 mg/kg
ATE US (oral)	940.000 mg/kg body weight
ATE US (dermal)	850.000 mg/kg body weight
Skin corrosion/irritation	Causes skin irritation.

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

		C C
Serious eye damage/irritation	:	Causes serious eye irritation.
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

SECTION 12: Ecological information			
12.1.	Toxicity		
No additional information available			
12.2.	Persistence and degradability		
No addi	No additional information available		
12.3.	Bioaccumulative potential		
No additional information available			
12.4.	Mobility in soil		
No additional information available			
12.5.	Other adverse effects		
No addit	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	: UN2811 Toxic solids, organic, n.o.s., 6.1, I	Ш
UN-No.(DOT)	: UN2811	
Proper Shipping Name (DOT)	: Toxic solids, organic, n.o.s.	
Transport hazard class(es) (DOT)	: 6.1 - Class 6.1 - Poisonous materials 49 C	FR 173.132
Hazard labels (DOT)	: 6.1 - Poison	
	6	
Packing group (DOT)	: III - Minor Danger	
Dangerous for the environment	: Yes	
Marine pollutant	: Yes	
	× ×	
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 213	
DOT Packaging Bulk (49 CFR 173.xxx)	: 240	
DOT Symbols	: G - Identifies PSN requiring a technical na	me
06/14/2018	EN (English US)	SDS ID: 3H32526

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

DOT Special Provisions (49 CFR 172.102)	 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 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 TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter. 		
DOT Packaging Exceptions (49 CFR 173.xxx)	: 153		
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)			
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 200 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.		
Other information	: No supplementary information available.		
TDG			
No additional information available			
Transport by sea			
Proper Shipping Name (IMDG)	: TOXIC SOLID, ORGANIC, N.O.S.		
Class (IMDG)	: 6.1 - Toxic substances		
Packing group (IMDG)	: III - substances presenting low danger		
Air transport			
UN-No. (IATA)	: 2811		
Proper Shipping Name (IATA)	: Toxic solid, organic, n.o.s.		
Class (IATA)	: 6.1 - Toxic Substances		
Packing group (IATA) : III - Minor Danger			
SECTION 15: Regulatory information			
15.1. US Federal regulations			
2-Chloro-6-(trichloromethyl)pyridine (1929-82	-		
Subject to reporting requirements of United State	d on the United States TSCA (Toxic Substances Control Act) inventory ect to reporting requirements of United States SARA Section 313		
	ARA Section 313 - Emission Reporting 1.0 %		
Il components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic ubstances Control Act (TSCA) inventory			
1986 and 40 CFR Part 372.			
2-Chloro-6-(trichloromethyl)pyridine	CAS No 1929-82-4 100%		
15.2. International regulations CANADA			
2-Chloro-6-(trichloromethyl)pyridine (1929-82	-4)		
Listed on the Canadian DSL (Domestic Sustance			
EU-Regulations No additional information available			

Safety Data Sheet

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

National regulations		
2-Chloro-6-(trichloromethyl)pyridine (1929-82-4)		
Listed on the AICS (Australian Inventory of Chemical Substances)		
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 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)		

5.3. US State regulations		
2-Chloro-6-(trichloromethyl)pyridine (1929-82-4)		
U.S California - Proposition 65 - Carcinogens List	Yes	
U.S California - Proposition 65 - Developmental Toxicity	Yes	
U.S California - Proposition 65 - Reproductive Toxicity - Female	No	
U.S California - Proposition 65 - Reproductive Toxicity - Male	No	
State or local regulations	U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List	

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer and/or reproductive toxicity

SECTION 16: Other information

Full text of H-phrases:

Fuilter	a or n-prilases.			
	Acute Tox. 3 (Dermal)		Acute toxicity (dermal) Category 3	
	Acute Tox. 4 (Oral) Aquatic Acute 2 Aquatic Chronic 2 Eye Irrit. 2A		Acute toxicity (oral) Category 4 Hazardous to the aquatic environment - Acute Hazard Category 2 Hazardous to the aquatic environment - Chronic Hazard Category 2 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	
	H302		Harmful if swallowed	
	H311		Toxic in contact with skin	
	H315		Causes skin irritation	
	H319		Causes serious eye irritation	
	H335		May cause respiratory irritation	
	H401		Toxic to aquatic life	
	H411		Toxic to aquatic life with long lasting effects	
NFPA	health hazard fire hazard reactivity	 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given. 1 - Must be preheated before ignition can occur. 0 - Normally stable, even under fire exposure conditions, and are not reactive with water. 		
HMIS	II Rating			
Health : 3 Serious Hazard - given			r injury likely unless prompt action is taken and medical treatment is	
			s that must be preheated before ignition will occur. Includes liquids, ving a flash point above 200 F. (Class IIIB)	
			ials that are normally stable, even under fire conditions, and will NOT ze, decompose, condense, or self-react. Non-Explosives.	

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

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.