

Safety Data Sheet 4654100 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Version: 1.0

Date of issue: 04/30/2019

Substance name CAS No Product code Formula Other means of identification 1.2. Relevant identified uses of the substance Use of the substance/mixture 1.3. Details of the supplier of the safety d 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 1.4. Emergency telephone number Emergency number	: Laboratory chemicals Manufacture of substances Scientific research and devel ata sheet		
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Emergency number			
Emergency number SECTION 2: Hazard(s) identification			
SECTION 2: Hazard(s) identification	: (844) 523-4086 (3E Compan	y - Account 10069)	
SECTION 2. Hazard(S) Identification			
2.1. Classification of the substance or mi	xture		
Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirat Full text of H-phrases: see section 16 2.2. Label elements			
GHS-US labeling Hazard pictograms (GHS-US)	: GHS06 GHS07		
Signal word (GHS-US)	: Danger		
Hazard statements (GHS-US)	: H301 - Toxic if swallowed H315 - Causes skin irritation H319 - Causes serious eye i H335 - May cause respirator		
Precautionary statements (GHS-US)	P261 - Avoid breathing dust, P264 - Wash skin thoroughly P270 - Do not eat, drink or si P271 - Use only outdoors or P280 - Wear protective glove P301+P310 - If swallowed: Ir P302+P352 - If on skin: Was P304+P340 - If inhaled: Rem P305+P351+P338 - If in eyee lenses, if present and easy to P312 - Call a POISON CENT P321 - Specific treatment (se P330 - Rinse mouth P332+P313 - If skin irritation	, mist, spray after handling noke when using this product in a well-ventilated area s/protective clothing/eye protection/face protection nmediately call a poison center/doctor/ h with plenty of soap and water ove person to fresh air and keep comfortable for breathing s: Rinse cautiously with water for several minutes. Remove	contac

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	P403+P2 P405 - St	864 - Take off contaminated 233 - Store in a well-ventilat tore locked up ispose of contents/containe	ed place. Keep contain	er tightly closed
2.3. Other hazards Other hazards not contributing to the classification	: Convulsa	ant.		
2.4. Unknown acute toxicity (GHS US)				
Not applicable SECTION 3: Composition/informatio	on on ingre	edients		
3.1. Substance				
Substance type	: Mono-coi	nstituent		
Name	P	roduct identifier	%	Classification (GHS-US)
2,4-Dinitrobenzaldoxime (Main constituent)		AS No) 3236-33-7	<= 100	Acute Tox. 3 (Oral), H301 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full text of H-phrases: see section 16			I	
3.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
4.1. Description of first aid measures				
First-aid measures general		of accident or if you feel unw possible). Move the affected p	,	e immediately (show the label e contaminated area.
First-aid measures after inhalation		person to fresh air and kee on. Get immediate medical a		hing. If not breathing, give artificial
First-aid measures after skin contact	: Wash wit	th plenty of soap and water.	Get immediate medica	al advice/attention.
First-aid measures after eye contact	present a	and easy to do. Continue rin	sing. Get immediate m	
First-aid measures after ingestion		induce vomiting. Never give ut with water. Get immediate		an unconscious person. Rinse on.
4.2. Most important symptoms and effe	ects, both acu	te and delayed		
Symptoms/injuries	2.2) and/	or in section 11.	s and effects are descr	ibed in the labelling (see section
Symptoms/injuries after inhalation	: May caus	se drowsiness or dizziness.		
4.3. Indication of any immediate medication of any immedia	al attention ar	nd special treatment need	ed	
, , , , , , , , , , , , , , , , , , ,				
SECTION 5: Firefighting measures				
5.1. Extinguishing media Suitable extinguishing media			de. Dry powder. Water	spray. Use extinguishing media
		ate for surrounding fire.		
5.2. Special hazards arising from the su			Daula an and a sa Althur	
Fire hazard	: Inermal	decomposition generates: (arbon oxides. Nitroger	I OXIGES.
5.3. Advice for firefighters				
		of fire: Evacuate area.	alathian is see 1.11	a subtract of a sector in the sector is
Firefighting instructions		e tiant chemically protective		n with self contained breathing
			fer to section 8: "Expos	sure controls/personal protection".
Firefighting instructions	apparatu		fer to section 8: "Expos	
Firefighting instructions Protection during firefighting	apparatu: asures	s. For further information re	fer to section 8: "Expos	
Firefighting instructions Protection during firefighting SECTION 6: Accidental release mea	apparatus asures quipment and	s. For further information re emergency procedures		
Firefighting instructions Protection during firefighting SECTION 6: Accidental release mea 6.1. Personal precautions, protective end	apparatus asures quipment and	s. For further information re emergency procedures		sure controls/personal protection".

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6.1.2. For emergency respo	
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 preca	utions
Avoid release to the environmen	t. Notify authorities if product enters sewers or public waters.
6.3. Methods and materia	I 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 se	ections
6.4. Reference to other se No additional information availab	
No additional information availab	le
	le d storage
No additional information availab SECTION 7: Handling an	le d storage
No additional information availab SECTION 7: Handling an 7.1. Precautions for safe	le d storage 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
No additional information availab SECTION 7: Handling an 7.1. Precautions for safe Precautions for safe handling Hygiene measures	le d storage 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. : Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink on
No additional information availab SECTION 7: Handling an 7.1. Precautions for safe Precautions for safe handling Hygiene measures	le d storage 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. : Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink of smoke when using this product. Always wash hands after handling the product.
No additional information availab SECTION 7: Handling an 7.1. Precautions for safe Precautions for safe handling Hygiene measures 7.2. Conditions for safe s	le d storage 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. : Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink of smoke when using this product. Always wash hands after handling the product. torage, including any incompatibilities
No additional information availab SECTION 7: Handling an 7.1. Precautions for safe Precautions for safe handling Hygiene measures 7.2. Conditions for safe s Technical measures	le d storage 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. : 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. torage, including any incompatibilities : Comply with applicable regulations.

Storage area	:	Store in dry, cool	, well-ventilated ar

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

No additional information available

8.2. Exposure controls	
Appropriate engineering controls : Ensure good ventilation of the work station. Emergency eye wash fountains and safe should be available in the immediate vicinity of any potential exposure.	ty showers
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 F	rotection.
Skin and body protection : Wear suitable protective clothing.	
Respiratory protection : In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Res Protection. Protection.	biratory
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
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: 171 - 172 °C
Freezing point	: No data available
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

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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	: 211.1317 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

SECT	ION 10: Stability and reactivity
10.1.	Reactivity
No add	tional information available
10.2.	Chemical stability
The pro	duct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No add	tional information available
10.4.	Conditions to avoid
Keep av	way from heat, sparks and flame.
10.5.	Incompatible materials
Acid an	hydrides. Acid chlorides. Strong acids. Strong oxidizing agents. Strong reducing 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: Toxic if swallowed.
Skin corrosion/irritation	: Causes skin irritation.
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
Symptoms/injuries after inhalation	: May cause drowsiness or dizziness.

SECTION 12: Ecological information					
12.1.	Toxicity				
	nal information available				
12.2.	Persistence and degradability				
No additio	lo additional information available				

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12.3.	Bioaccumulative potential		
No addit	tional information available		
12.4.	Mobility in soil		
	tional information available		
No addi			
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. : Dispose of contents/container in accordance with licensed collector's sorting instructions. Waste disposal recommendations 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)

DOT Packaging Non Bulk (49 CFR 173.xxx)

DOT Packaging Bulk (49 CFR 173.xxx)

Packing group (DOT)

: UN2811 Toxic solids, organic, n.o.s., 6.1, III

- : UN2811
- : Toxic solids, organic, n.o.s.
- : 6.1 Class 6.1 Poisonous materials 49 CFR 173.132
- : 6.1 Poison



- : III Minor Danger
- : 213
 - : 240

DOT Symbols	:	G - Identifies PSN requiring a technical name
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
DOT Packaging Exceptions (49 CFR 173.xxx)	:	153
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	:	100 kg
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.

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TDG

No additional information available

Transport by sea	
UN-No. (IMDG)	: 2811
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

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:

2,4-Dinitrobenzaldoxime	CAS No 3236-33-7	100%

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:

Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
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
H301	Toxic if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

NFPA health hazard	 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given. 	
NFPA fire hazard	: 0 - Materials that will not burn.	
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.	

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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	: 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.