

# IsobutyIhydrazine hydrochloride Safety Data Sheet 31395X0 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 07/06/2017 Version: 1.0

1.1. Identification	
Product form	: Substance
Substance name	: Isobutylhydrazine hydrochloride
CAS No	
	: 237064-47-0 . 2120 5 X0
Product code	: 3139-5-X0
Formula	: C4H13CIN2
Synonyms	<ul> <li>(2-Methylprop-1-yl)hydrazine hydrochloride; 1-Hydrazino-2-methylpropane hydrochloride; 2- Methylpropylhydrazine hydrochloride</li> </ul>
Other means of identification	: MFCD06245510
1.2. Relevant identified uses of the	substance or mixture and uses advised against
Jse 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 Γ (386) 462-0788 - F (386) 462-7097 <u>nfo@synquestlabs.com</u> - <u>www.synquestlab</u>	
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
Classification of the substanceClassification (GHS-US)Acute Tox. 4 (Oral)Bkin Irrit. 2H315 - Causes skinEye Irrit. 2AH319 - Causes serioSTOT SE 3H335 - May cause rest	irritation bus eye irritation
Classification (GHS-US) Acute Tox. 4 (Oral) H302 - Harmful if sw Skin Irrit. 2 H315 - Causes skin Eye Irrit. 2A H319 - Causes serio	irritation bus eye irritation
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Classification (GHS-US)         Acute Tox. 4 (Oral)       H302 - Harmful if sw         Skin Irrit. 2       H315 - Causes skin         Eye Irrit. 2A       H319 - Causes serio         STOT SE 3       H335 - May cause res         Full text of H-phrases: see section 16         2.2.       Label elements         GHS-US labeling	irritation bus eye irritation
Classification (GHS-US)Acute Tox. 4 (Oral)H302 - Harmful if swSkin Irrit. 2H315 - Causes skinEye Irrit. 2AH319 - Causes serioSTOT SE 3H335 - May cause resFull text of H-phrases: see section 162.2.Label elements	irritation bus eye irritation
Classification (GHS-US)         Acute Tox. 4 (Oral)       H302 - Harmful if sw         Skin Irrit. 2       H315 - Causes skin         Eye Irrit. 2A       H319 - Causes serio         STOT SE 3       H335 - May cause res         Full text of H-phrases: see section 16         2.2.       Label elements         GHS-US labeling	irritation bus eye irritation espiratory irritation
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	, March 20,			
	P337 P362 P403 P405	<ul> <li>+P313 - If skin irritation occurs: Get medi</li> <li>+P313 - If eye irritation persists: Get medi</li> <li>+P364 - Take off contaminated clothing a</li> <li>+P233 - Store in a well-ventilated place.</li> <li>- Store locked up</li> <li>- Dispose of contents/container to an ap</li> </ul>	lical advice/atte and wash it befo Keep container	ntion ore reuse tightly closed
2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
	· · · · · • · ·			
SECTION 3: Composition/information	on on in	greatents		
3.1. Substance				
Substance type	: Mono	-constituent		
Name		Product identifier	%	Classification (GHS-US)
Isobutylhydrazine hydrochloride (Main constituent)		(CAS No) 237064-47-0	<= 100	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 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		e of accident or if you feel unwell, seek r possible). Move the affected personnel		
First-aid measures after inhalation		ove person to fresh air and keep comforta ation. Get immediate medical advice/atte		ng. If not breathing, give artificial
First-aid measures after skin contact	: Wash	with plenty of soap and water. Get imme	ediate medical a	advice/attention.
First-aid measures after eye contact		diately flush eyes thoroughly with water t nt and easy to do. Continue rinsing. Get		
First-aid measures after ingestion		OT induce vomiting. Never give anything n out with water. Get immediate medical		
4.2. Most important symptoms and effe	cts, both	acute and delayed		
Symptoms/injuries		nost important known symptoms and effe nd/or in section 11.	ects are describe	ed in the labelling (see section
4.3. Indication of any immediate medica	al attentio	n and special treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media		ol resistant foam. Carbon dioxide. Dry po priate for surrounding fire.	owder. Water sp	oray. Use extinguishing media
5.2. Special hazards arising from the su	ubstance of	or mixture		
Fire hazard	: Therr	nal decomposition generates: Carbon ox	ides. Hydrogen	chloride. Nitrogen oxides.
5.3. Advice for firefighters				
Firefighting instructions	· In cas	se of fire: Evacuate area.		
Protection during firefighting		gas tight chemically protective clothing in	n combination w	with self contained breathing
	appai	atus. For further information refer to sec		
<b>SECTION 6: Accidental release mea</b>	sures			
6.1. Personal precautions, protective e	quipment	and emergency procedures		
General measures	: Evac	uate unnecessary personnel. Ensure ade	quate air ventila	ation. Do not breathe dust.
6.1.1. For non-emergency personnel				
Emergency procedures	: Only	qualified personnel equipped with suitabl	e protective equ	uipment may intervene.

Protective equipment

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### 6.1.2. For emergency responders

: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### **Environmental precautions** 6.2.

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

· · · · · · · · · · · · · · · · · · ·			
6.3. Methods and material for containme	nt 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, including	ng any incompatibilities		
Technical measures	: Comply with applicable regulations.		
Storage conditions	: Keep container closed when not in use. Hygroscopic. Keep contents under inert gas.		
Incompatible materials	: Refer to Section 10 on Incompatible Materials.		

- : Refer to Section 10 on Incompatible Materials.
- : Store in dry, cool, well-ventilated area.

### **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.

### **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and	d chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: 86 - 89 °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	: 124.61 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	itional 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	itional information available
10.4.	Conditions to avoid
Keep a	way 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.		
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		
SECTION 12: Ecological information			

	ion iz. Ecological information			
12.1.	Toxicity			
No add	itional information available			
12.2.	Persistence and degradability			
No add	itional information available			
12.3.	Bioaccumulative potential			
No add	itional information available			
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12.4.	Mobility in soil

# No additional information available

## 12.5. Other adverse effects

No additional information available

In 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 SECTION 15: Regulatory information SECTION 15: Regulatory information SIL 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. Isobutylhydrazine hydrochloride CAS No 237064-47-0 100% This product or mixture does not contain a toxic chemical or themicals in access 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. ISO additional information available SECTIONE No additional information available SECTIONE	Waste disposal recommendations               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 Transport information    Department of Transport information    Department of Transport information    No accordance with DOT    No accordance with DOT    No accordance with DOT    No additional information available    Attransport    No additional information available    SECTION 15: Regulatory information    No additional information available    SECTION 15: Regulatory information    Mactional information available    Section 15: Regulatory information    Mall components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic    Substance Control Act (TSCA) inventory except for:    Isobutythydrazine hydrochloride    All components of this product are listed, or excluded from listing on the United States Environmental Protection Agency Toxic    Substance Control Act (TSCA) inventory except for:    Isobutythydrazine hydrochloride    All components of this product are listed, or excluded from listing on the uplicable deminimis concentration as specified in 400       CFR \$937.28(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendmentis and Reauthorization Act of 1986       and 40 CFR Part 372.    Statenational	13.1. Waste treatment methods		
Department of Transportation (DOT)         In 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         SECTION 15: Regulatory information         Section 16: State 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:         IsobulyIndrazine hydrochloride       CAS No 237064-47-0         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.         Statemational regulations       Statemational information available         CANADA No additional information available       Statemation available         No additional information available       State regulations	Department of Transportation (DOT)         In 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         SECTION 15: Regulatory information         Section 16: 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:         IsobulyIndrazine hydrochloride       CAS No 237064-47-0         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.         Statemational regulations       Section 210 (Section 200)         Koadditional information available       Section 210 (Section 200)         No additional information available       Section 200 (Section 200)         State regulations       Section 200 (Section 200)         No additional information available       Section 200 (Section 200)         No additional information available       Section 200 (Section 200)         No addition	Waste disposal recommendations	: Dispose of contents/container in accordance with license	
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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	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	CFR §372.38(a) subject to the reporting rea and 40 CFR Part 372.	toxic chemical or chemicals in excess of the applicable de minim	s concentration as specified in 40
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California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm	California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm	CFR §372.38(a) subject to the reporting rea and 40 CFR Part 372. <b>15.2. International regulations</b> <b>CANADA</b> No additional information available <b>EU-Regulations</b>	toxic chemical or chemicals in excess of the applicable de minim	s concentration as specified in 40
and/or reproductive harm	and/or reproductive harm	CFR §372.38(a) subject to the reporting red and 40 CFR Part 372. <b>15.2. International regulations</b> <b>CANADA</b> No additional information available <b>EU-Regulations</b> No additional information available <b>National regulations</b>	toxic chemical or chemicals in excess of the applicable de minim	s concentration as specified in 40
SECTION 16: Other information	SECTION 16: Other information	CFR §372.38(a) subject to the reporting rea and 40 CFR Part 372. <b>15.2. International regulations</b> <b>CANADA</b> No additional information available <b>EU-Regulations</b> No additional information available <b>National regulations</b> No additional information available	toxic chemical or chemicals in excess of the applicable de minim	s concentration as specified in 40
		CFR §372.38(a) subject to the reporting rec and 40 CFR Part 372. <b>15.2. International regulations</b> <b>CANADA</b> No additional information available <b>EU-Regulations</b> No additional information available <b>National regulations</b> No additional information available <b>15.3. US State regulations</b> California Proposition 65 - This product d	toxic chemical or chemicals in excess of the applicable de minim quirements of section 313 of Title III of the Superfund Amendmer	s concentration as specified in 40 ts and Reauthorization Act of 1986
		CFR §372.38(a) subject to the reporting red and 40 CFR Part 372. <b>15.2. International regulations</b> <b>CANADA</b> No additional information available <b>EU-Regulations</b> No additional information available <b>National regulations</b> No additional information available <b>15.3. US State regulations</b> California Proposition 65 - This product d and/or reproductive harm	toxic chemical or chemicals in excess of the applicable de minim quirements of section 313 of Title III of the Superfund Amendmer	s concentration as specified in 40 ts and Reauthorization Act of 1986

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

Full text of	of H-phrases:			
1	Acute Tox. 4 (Oral)		Acute toxicity (oral) Category 4	
1	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	
	H302		Harmful if swallowed	
	H315		Causes skin irritation	
	H319		Causes serious eye irritation	
1	H335		May cause respiratory irritation	
NFPA fire	incapacitation or possible medical attention is given         NFPA fire hazard       : 0 - Materials that will not		burn. under fire exposure conditions,	
HMIS III	Rating			
Health		: 3 Serious Hazard - Majo given	or injury likely unless prompt action is taken and medical treatment is	
Flammab	pility	: 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.