

Isobutanamidine hydrochloride Safety Data Sheet 31415X0 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 01/26/2016 Version: 1.0

SECTION 1: Identification				
I.1. Identification				
Product form	: Substance			
Substance name	Isobutanamidine hydrochlor	: Isobutanamidine hydrochloride		
CAS No	•	: 22007-68-7		
Product code	: 3141-5-X0			
Formula	: C4H11CIN2			
		da: 2 Mathularananimidamida hudraahlarida		
Synonyms	: MFCD00173787	de; 2-Methylpropanimidamide hydrochloride		
Other means of identification				
	substance or mixture and uses ad	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 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 Compar	ny - Account 10069)		
SECTION 2: Hazard(s) identificat	ion			
2.1. Classification of the substance				
Classification (GHS-US)	or mixture			
Skin Irrit. 2H315 - Causes skin irritatiorEye Irrit. 2AH319 - Causes serious eyeSTOT SE 3H335 - May cause respiratorFull text of H-phrases: see section 16	irritation			
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)	P302+P352 - If on skin: Wa: P304+P340 - If inhaled: Rer P305+P351+P338 - If in eye lenses, if present and easy i P312 - Call a POISON CEN P321 - Specific treatment (s P332+P313 - If skin irritation P337+P313 - If eye irritation P362+P364 - Take off conta P403+P233 - Store in a well P405 - Store locked up	y after handling in a well-ventilated area es/protective clothing/eye protection/face protection sh with plenty of soap and water nove person to fresh air and keep comfortable for b es: Rinse cautiously with water for several minutes.	preathing	
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2.3. Other ha	azards				
No additional inform	mation available				
2.4. Unknow	n acute toxicity (GHS US)				
Not applicable					
SECTION 3: C	omposition/information	on in	gredients		
3.1. Substan	ice				
Substance type	:	Mono	-constituent		
Name			Product identifier	%	Classification (GHS-US)
Isobutanamidine hy (Main constituent)	drochloride		(CAS No) 22007-68-7	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full text of H-phras	ses: see section 16				
3.2. Mixture					
Not applicable					
SECTION 4: Fi	irst aid measures				
4.1. Descript	tion of first aid measures				
First-aid measures		where	e of accident or if you feel unwell, seek i possible). Move the affected personnel	away from the c	contaminated area.
First-aid measures	after inhalation :		ove person to fresh air and keep comforta ation. Get medical advice/attention.	able for breathing	g. If not breathing, give artificial
First-aid measures			with plenty of soap and water. Get medi		
First-aid measures		Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get 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 medical advice/attention.			
4.2. Most im	portant symptoms and effects	both a	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.					
4.3. Indicatio	on of any immediate medical at	tentio	n and special treatment needed		
Treat symptomatic	ally.				
SECTION 5: F	irefighting measures				
	ishing 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 subs	ance o	or mixture		
Fire hazard	:	Thern	nal decomposition generates: Carbon ox	des. Hydrogen	chloride. Nitrogen oxides.
5.3. Advice for firefighters					
Firefighting instruct		In cas	e of fire: Evacuate area.		
Protection during fi			gas tight chemically protective clothing i	n combination w	ith self contained breathing
0			atus. For further information refer to sec		
SECTION 6: A	ccidental release measu	res			
	al precautions, protective equip		and emergency procedures		
General measures			uate unnecessary personnel. Ensure ade	quate air ventila	tion. Do not breathe dust.
			,	1	
	-emergency personnel	<u> </u>	1. 1 . 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		
Emergency proced	iures :	Only	qualified personnel equipped with suitabl	e protective equ	ipment may intervene.
6.1.2. For eme	ergency responders				
Protective equipme	ent :		t attempt to take action without suitable of section 8: "Exposure controls/personal		ment. For further information

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

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6.3.	.3. Methods and material for containment and cleaning up				
For co	ntainment	: Stop leak if safe to do so.			
Metho	ds 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 ado	ditional information available				
SEC	FION 7: Handling and storage				
7.1.	Precautions for safe handling				
Precau	utions 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.			
Hygier	ne 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, incl	uding any incompatibilities			
Techn	ical measures	: Comply with applicable regulations.			
Storag	e conditions	: Keep container closed when not in use. Hygroscopic. Keep contents under inert gas.			
Incom	patible materials	: Refer to Section 10 on Incompatible Materials.			
Storage area		Store in dry, cool, well-ventilated area.			

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 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 ar	nd chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
pН	: No data available
Melting point	: 159 - 162 °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
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	: 122.6 g/mol

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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 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.

SECT	ION 11: Toxicological information	
11.1.	Information on toxicological effects	

Acute toxicity :

 Not classifie 	ed

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

SECT	ION 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			
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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 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

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:

Isobutanamidine hydrochloride	CAS No 22007-68-7	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

Isobutanamidine hydrochloride (22007-68-7)

Listed on the Japanese ISHL (Industrial Safety and Health Law)

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:

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

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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.
HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
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.