

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 03/12/2021

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CLM-9966

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biobatance name : ITACONIC ACID (CHEMICAL PURITY 97%+) (13C5, 99%) CONo. : 202-599-6 (Unlabeled) bAS-No. : 97-65-4 (Unlabeled) computer is the substance or mixture and uses advised against computer is the substance or mixture and uses advised against computer is the substance or mixture and uses advised against computer is the substance or mixture and uses advised against computer is the substance or mixture and uses advised against computer is the substance or mixture and uses advised against computer is the substance or mixture computer is the substance or mixture computers: : :::::::::::::::::::::::::::::::::				
hroduct form : Substance hubbtance name : ITACONIC ACID (CHEMICAL PURITY 97%+t) (13C5, 99%) iC-No. : 202-599-6 (Unlabeled) ASANo. : 97-654-(Unlabeled) hroduct code : CLM-9966 formula : 'CSH6O4 kynonyms : Methylenesuccinic acid 2.2. Relevant identified uses rethylenesuccinic acid stain use category : Professional use hdustrial/Professional use spec : For professional use only 2.1. Relevant identified uses spec : For professional use only 2.2. Uses advised against - ko additional information available - 3. Details of the supplier of the safety data sheet - arabridge Isotope Laboratories, Inc. - 0 Fontage Road - indover, MA 01810 - JSA - VBCTUN 2: Hazards identification - stain intervalues - Sector 2: Hazards identification - the institue of the substance or mixture - Carbonal Bisolope.com - Itales@ labotope.com - Sist 1=00-3741-5		stance/mixture and of the company/undertaking		
2.1. Relevant identified uses Main use category : Professional use industrial/Professional use spec : For professional use only 2.2. Uses advised against to additional information available .3. Details of the supplier of the safety data sheet Cambridge Isotope Laboratories, Inc. 00 Frontage Road undover, MA 01810 ISA VSA: 1-800-322-1174 Int: 1-978-749-8000 Itsales@isotope.com Emergency telephone number Emergency numbers: Chernters: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hours) Statistication of the substance or mixture Classification of the substance or mixture Classification according to Regulation (EC) No. 1272/2008 [CLP] kin Irrit. 2 H315 type Irrit. 2 H319 type Irrit. 2 H335	Product form Substance name EC-No. CAS-No. Product code Formula Synonyms	 ITACONIC ACID (CHEMICAL PURITY 97%+) (13C5, 99%) 202-599-6 (Unlabeled) 97-65-4 (Unlabeled) CLM-9966 *C5H6O4 		
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Emergency telephone number Emergency numbers: Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hours) SECTION 2: Hazards identification Classification of the substance or mixture Classification according to Regulation (EC) No. 1272/2008 [CLP] Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT SE 3 H335	Main use category Industrial/Professional use spec 1.2.2. Uses advised against No additional information available	: For professional use only		
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Classification according to Regulation (EC) No. 1272/2008 [CLP] Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT SE 3 H335	SECTION 2: Hazards identification			
Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT SE 3 H335	2.1. Classification of the substance or mixture			
ull text of hazard classes and H-statements : see section 16	Classification according to Regulation (EC) No. 1272/2008 [CLP] Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT SE 3 H335			

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Xi; R36/37/38 Full text of R-phrases: see section 16

GHS-US classification

Skin Irrit. 2 H315 Eye Irrit. 2A H319 STOT SE 3 H335 Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

2.2. Label elements				
Labeling according to Regulation (EC) No. 1272/2008 [CLP]				
Hazard pictograms (CLP)				
	•			
Signal word (CLP)	GHS07 : Warning			
Hazard statements (CLP)	: H315 - Causes skin irritation			
	H319 - Causes serious eye irritation H335 - May cause respiratory irritation			
Precautionary statements (CLP)	 P261 - Avoid breathing dust, fume, gas, mist, spray, vapors. P264 - Wash Both hands thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective clothing, protective gloves. P302+P352 - IF ON SKIN: Wash with plenty of water. 			
	P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312 - Call a POISON CENTER or doctor if you feel unwell.			
GHS-US labeling				
Hazard pictograms (GHS-US)				
	GHS07			
Signal word (GHS-US) Hazard statements (GHS-US)	: Warning : H315 - Causes skin irritation			
Hazaid statements (GHS-03)	H319 - Causes serious eye irritation H335 - May cause respiratory irritation			
Precautionary statements (GHS-US)	 P261 - Avoid breathing dust, fume, gas, mist, spray, vapors. P264 - Wash Both hands thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective clothing, protective gloves. P302+P352 - If on skin: Wash with plenty of water P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P312 - Call a poison center or doctor if you feel unwell P321 - Specific treatment (see Hazard pictograms (CLP) on this label) P332+P313 - If skin irritation occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention. P362 - Take off contaminated clothing and wash before reuse. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. 			
	P405 - Store locked up. P501 - Dispose of contents/container to Comply with applicable regulations			

Other hazards 2.3.

No additional information available

SECTION 3: Composition/Information on ingredients				
3.1. Substances				
Product identifier	%	Classification according to Directive 67/548/EEC		
(CAS-No.) 97-65-4 (Unlabeled) (EC-No.) 202-599-6 (Unlabeled) (EC Index-No.)	100	Xi; R36/37/38		
Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]		
(CAS-No.) 97-65-4 (Unlabeled) (EC-No.) 202-599-6 (Unlabeled) (EC Index-No.)	100	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335		
	Product identifier (CAS-No.) 97-65-4 (Unlabeled) (EC-No.) 202-599-6 (Unlabeled) (EC Index-No.) Product identifier (CAS-No.) 97-65-4 (Unlabeled) (EC-No.) 202-599-6 (Unlabeled) (EC-No.) 202-599-6 (Unlabeled)	Product identifier % (CAS-No.) 97-65-4 (Unlabeled) (EC-No.) 202-599-6 (Unlabeled) (EC Index-No.) 100 Product identifier % (CAS-No.) 97-65-4 (Unlabeled) (EC-No.) 202-599-6 (Unlabeled) 100		

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Full text of R- and H- phrases: see section 16

Name	Product identifier	%	GHS-US classification
ITACONIC ACID (CHEMICAL PURITY 97%+) (13C5, 99%) (Main constituent)	(CAS-No.) 97-65-4 (Unlabeled)	100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335

Full text of H-phrases: see section 16

3.2. **Mixtures**

Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measure	!S
First-aid measures general	: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
First-aid measures after inhalation	: If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.
First-aid measures after skin contact	: Wash with soap and plenty of water. Consult a physician.
First-aid measures after eye contact	: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
4.2. Most important symptoms and	effects, both acute and delayed
Symptoms/effects after inhalation	: May cause respiratory irritation
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed.
4.3. Indication of any immediate me	dical attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measure	es
5.1. Extinguishing media	
Suitable extinguishing media	: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.
5.2. Special hazards arising from th	e substance or mixture
No additional information available	
5.3. Advice for firefighters	
Firefighting instructions	: Wear self contained breathing apparatus for fire fighting if necessary.
Protection during firefighting	 Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release n 6.1. Personal precautions, protectiv	
	e equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Avoid dust formation. Avoid breathing vapors, mist or gas.
6.1.2. For emergency responders	
No additional information available	
6.2. Environmental precautions	
Do not let product enter drains.	
6.3. Methods and material for conta	inment and cleaning up
For containment	: Take up mechanically (sweeping, shoveling) and collect in suitable container for disposal.
6.4. Reference to other sections No additional information available	
SECTION 7: Handling and storag	e
7.1. Precautions for safe handling	
Precautions for safe handling	: Provide appropriate exhaust ventilation at places where dust is formed.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
7.2. Conditions for safe storage, inc	sluding any incompatibilities
Technical measures	: Keep container tightly closed in a cool, dry and well-ventilated place.
03/12/2021	EN (English LIS)
	EN (English US)

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Storage conditions	: Store at room temperature away from light and moisture.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/pers	onal protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	
Appropriate engineering controls	: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment	: Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.
Materials for protective clothing	: Wear suitable protective clothing and gloves.
Hand protection	: Wear suitable protective clothing and gloves.
Eye protection	: Wear safety glasses with side shields (or goggles) and a face shield.
Skin and body protection	: Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Respiratory protection	: When appropriate, use NIOSH/CEN approved respirator.
Environmental exposure controls	: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

SECTION 9: Physical and chemical properties			
9.1. Information on basic physical and chemical properties			
Physical state	: Solid		
Appearance	: Solid		
Molecular mass	: 135.06 g/mol (Labeled)		
Color	: White		
Odor	: No data available		
Odor threshold	: No data available		
рН	: No data available		
Relative evaporation rate (butyl acetate=1)	: No data available		
Melting point	: No data available		
Freezing point	: No data available		
Boiling point	: No data available		
Flash point	: No data available		
Auto-ignition temperature	: No data available		
Decomposition temperature	: No data available		
Flammability (solid, gas)	: No data available		
Vapor pressure	: No data available		
Relative vapor density at 20 °C	: No data available		
Relative density	: No data available		
Solubility	: No data available		
Log Pow	: No data available		
Log Kow	: No data available		
Viscosity, kinematic	: No data available		
Viscosity, dynamic	: No data available		
Explosive properties	: No data available		
Oxidizing properties	: No data available		
Explosion limits	: No data available		
9.2. Other information			
No additional information available			
SECTION 10: Stability and reactivity			
10.1. Reactivity			

No additional information available

Safety Data Sheet

Specific target organ toxicity - repeated

Potential Adverse human health effects and

Symptoms/effects after inhalation

Symptoms/effects after skin contact

Symptoms/effects after eye contact

Symptoms/effects after ingestion

exposure

symptoms

Aspiration hazard

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

10.2. Chemical stability					
Stable if stored under recommended conditions.	Stable if stored under recommended conditions.				
10.3. Possibility of hazardous reactions					
No additional information available					
10.4. Conditions to avoid					
No additional information available					
10.5. Incompatible materials					
Bases. Oxidizing agents. Reducing agents.					
10.6. Hazardous decomposition products	3				
Carbon oxides (CO, CO2).					
SECTION 11: Toxicological informat	tion				
11.1. Information on toxicological effects					
Acute toxicity	: Not classified				
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	: Inhalation - May cause respiratory irritation.				

: This information is based on our current knowledge and is intended to describe the product for

construed as guaranteeing any specific property of the product.

the purposes of health, safety and environmental requirements only. It should not therefore be

SECTI	ON 12: Ecological information		
12.1.	Toxicity		
Ecology	- general	:	The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
12.2.	Persistence and degradability		
No addit	ional information available		
12.3.	Bioaccumulative potential		
No addit	ional information available		
12.4.	Mobility in soil		
No addit	ional information available		
12.5.	Results of PBT and vPvB assessmer	nt	
No addit	ional information available		
12.6.	Other adverse effects		
Other ad	lverse effects	:	Avoid release to the environment.
SECTI	ON 13: Disposal consideration	S	
13.1.	Waste treatment methods		
Regiona	l legislation (waste)	:	Waste materials should be disposed of under conditions which meet Federal, State, and local environmental control regulations.
Product/	Packaging disposal recommendations	:	Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

: Not classified

: Not classified

: May cause respiratory irritation.

: Causes skin irritation.

: May cause eye irritation.

: May be harmful if swallowed.

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Ecology - waste materials	: Dispose of as unused product.			
SECTION 14: Transport information				
In accordance with ADR / RID / IMDG / IATA	/ ADN			
14.1. UN number				
Not applicable				
14.2. UN proper shipping name				
Not applicable				
14.3. Additional information				
14.3. Additional information Other information	: No supplementary information available.			
Other mormation				
Special transport precautions	: Not dangerous goods.			
Overland transport				
No additional information available				
Transport by sea	Transport by sea			
No additional information available				
Air transport				
No additional information available				
14.4. Environmental hazards				
Other information	: No supplementary information available.			
14.5. Special precautions for user				
Special transport precautions	: Not dangerous goods.			
14.6. Transport in bulk according to A	nnex II of MARPOL 73/78 and the IBC Code			

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code 14.6.

Not applicable

SECTION 15: Regulatory information				
15.1. US Federal regulations				
ITACONIC ACID (CHEMICAL PURITY 97%+) (13C5, 99%) (97-65-4 (Unlabeled))				
SARA Section 302 Threshold Planning Quantity (TPQ)	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302			
SARA Section 311/312 Hazard Classes Immediate (acute) health hazard				
SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313				
15.2. International regulations				

CANADA

ITACONIC ACID (CHEMICAL PURITY 97%+) (13C5, 99%) (97-65-4 (Unlabeled))	
Listed on the Canadian DSL (Domestic Substances List)	

15.2.1. **National regulations**

No additional information available

15.3. US State regulations

TACONIC ACID (CHEMICAL PURITY 97%+) (13C5, 99%)(97-65-4 (Unlabeled))		
U.S California - Proposition 65 - Carcinogens List	No	
U.S California - Proposition 65 - Developmental Toxicity	No	
U.S California - Proposition 65 - Reproductive Toxicity - Female	No	
U.S California - Proposition 65 - Reproductive Toxicity - Male	No	
State or local regulations	U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List	

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SECTION 16: Other information

Other information

: This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

Full text of R-, H- and EUH-phrases:

,	1
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
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
R36/37/38	Irritating to eyes, respiratory system and skin
Xi	Irritant

NFPA health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard	: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
Hazard Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 0 Minimal Hazard
Physical	: 0 Minimal Hazard

CIL Substance SDS

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product