

# LABELED SUCCINYLACETONE STANDARD SET Т

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 Date of issue: 10/06/2011 Revision date: 04/08/2021 Supersedes: 25/07/2016 Version: 4.0 NSK-T

SECTION 1: Identification of the sub	stance/mixture and of the company/undertaking	
	stance/mixture and of the company/undertaking	
	. Substance	
Product form	: Substance : LABELED SUCCINYLACETONE STANDARD SET T	
Substance name CAS-No.		
Product code	: 51568-18-4 (Unlabeled) : NSK-T	
Formula	: *CH3*C(0)*CH2*C(0)*CH2CH2COOH	
Synonyms	: 4,6-Dioxoheptanoic acid	
1.2. Relevant identified uses of the subs	tance or mixture and uses advised against	
1.2.1. Relevant identified uses		
Main use category	: Professional use	
Industrial/Professional use spec	: For professional use only	
1.2.2. Uses advised against		
No additional information available		
4.2 Details of the sumplier of the solety.	date about	
1.3. Details of the supplier of the safety Cambridge Isotope Laboratories, Inc.	uata sheet	
50 Frontage Road		
Andover, MA 01810		
USA		
USA: 1-800-322-1174 Int: 1-978-749-8000		
cilsales@isotope.com www.isotope.com		
Emergency telephone number		
Emergency numbers:		
Chemtrec: 1-800-424-9300 (24 hours)		
International: 1-703-741-5970 (24 hours)		
SECTION 2: Hazards identification		
2.1. Classification of the substance or m	ixture	
Classification according to Regulation (EC) N	lo. 1272/2008 [CLP]	
Skin Irrit. 2 H315		
Eye Irrit. 2 H319		
STOT SE 3 H335		
Full text of hazard classes and H-statements : se	ee section 16	
Classification according to Directive 67/548/E	EC [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		
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Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements	
Labeling according to Regulation (EC) No. 127 Hazard pictograms (CLP)	72/2008 [CLP]
Signal word (CLD)	GHS07
Signal word (CLP) Hazard statements (CLP)	<ul> <li>Warning</li> <li>H315 - Causes skin irritation</li> <li>H319 - Causes serious eye irritation</li> <li>H335 - May cause respiratory irritation</li> </ul>
Precautionary statements (CLP)	<ul> <li>P261 - Avoid breathing dust, fume, gas, mist, spray, vapors.</li> <li>P264 - Wash Both hands thoroughly after handling.</li> <li>P271 - Use only outdoors or in a well-ventilated area.</li> <li>P280 - Wear protective clothing, protective gloves.</li> <li>P302+P352 - IF ON SKIN: Wash with plenty of water.</li> <li>P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P312 - Call a POISON CENTER or doctor if you feel unwell.</li> </ul>
GHS-US labeling	
Hazard pictograms (GHS-US)	GHS07
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
Precautionary statements (GHS-US)	<ul> <li>P261 - Avoid breathing dust, fume, gas, mist, spray, vapors.</li> <li>P264 - Wash Both hands thoroughly after handling.</li> <li>P271 - Use only outdoors or in a well-ventilated area.</li> <li>P280 - Wear protective clothing, protective gloves.</li> <li>P302+P352 - If on skin: Wash with plenty of water</li> <li>P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing</li> <li>P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing</li> <li>P312 - Call a poison center or doctor if you feel unwell</li> <li>P321 - Specific treatment (see Hazard pictograms (CLP) on this label)</li> <li>P332+P313 - If skin irritation occurs: Get medical advice/attention.</li> <li>P337+P313 - If eye irritation persists: Get medical advice/attention.</li> <li>P337+P333 - Store in a well-ventilated place. Keep container tightly closed.</li> <li>P405 - Store locked up.</li> <li>P501 - Dispose of contents/container to Comply with applicable regulations</li> </ul>

## 2.3. Other hazards

No additional information available

SECTI	SECTION 3: Composition/Information on ingredients				
3.1.	Substances				
Name CAS-No					
Name		Product identifier	%	Classification according to Directive 67/548/EEC	
SUCCIN	NYLACETONE (3,4,5,6,7-13C5, 99%)	(CAS-No.) 51568-18-4 (Unlabeled)	100	Xi; R36/37/38	

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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

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
SUCCINYLACETONE (3,4,5,6,7-13C5, 99%)	(CAS-No.) 51568-18-4 (Unlabeled)	100	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

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

	: LABELED SUCCINYLACETONE STANDARD SET T : 51568-18-4 (Unlabeled)		
Name	Product identifier	%	GHS-US classification
SUCCINYLACETONE (3,4,5,6,7-13C5, 99%)	(CAS-No.) 51568-18-4 (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 measures	
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 off 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 effect	cts, both acute and delayed
Symptoms/effects after inhalation	: May be harmful if inhaled. May cause respiratory tract irritation.
Symptoms/effects after skin contact	: May be harmful if absorbed through skin. 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 medica	I attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.
5.2. Special hazards arising from the su	bstance 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: Assidental release mag	
SECTION 6: Accidental release mea	
	uipment and emergency procedures
General measures	: Not flammable or combustible.
6.1.1. For non-emergency personnel	
Emergency procedures	: Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
6.1.2. For emergency responders	
No additional information available	
6.2. Environmental precautions	
Prevent further leakage or spillage if safe to do s	so. Do not let product enter drains.
6.3. Methods and material for containing	ent and cleaning up
For containment	: Take up mechanically (sweeping, shoveling) and collect in suitable container for disposal.

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6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage 7.1. Precautions for safe handling	
7.1. Precautions for safe handling Additional hazards when processed	: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Hygiene measures	<ul> <li>Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.</li> </ul>
7.2. Conditions for safe storage, inclu	ding any incompatibilities
Technical measures	: Keep container tightly closed in a cool, dry and well-ventilated place.
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/per	sonal protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	
Appropriate engineering controls	<ul> <li>Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.</li> <li>Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.</li> </ul>
Personal protective equipment	
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 chemica	properties
9.1. Information on basic physical and	
Physical state	: Solid
Appearance	: Powder
Molecular mass	: 163.12 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	: 66 - 67 °C (151 - 153 °F) - lit
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
Deletive density	

Relative density

: No data available

: No data available

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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

SECT	ION 10: Stability and reactivity
10.1.	Reactivity
No addi	tional information available
10.2.	Chemical stability
Five yea	ars from date of manufacture.
10.3.	Possibility of hazardous reactions
No addi	tional information available
10.4.	Conditions to avoid
No addi	tional information available
10.5.	Incompatible materials
Strong	oxidizing agents, Strong bases.
10.6.	Hazardous decomposition products

Carbon oxides.

<b>SECTION 11: Toxicological informat</b>	ion
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.
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: 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.
Symptoms/effects after inhalation	: May be harmful if inhaled. May cause respiratory tract irritation.
Symptoms/effects after skin contact	: May be harmful if absorbed through skin. Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed.

SECTIO	<b>ON 12: Ecological information</b>	
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 additi	onal information available	
12.3.	Bioaccumulative potential	
No additi	onal information available	

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12.4. Mobility in soil	
No additional information available	
I2.5. Results of PBT and vPvB assessmen	t
No additional information available	
12.6. Other adverse effects	
Other adverse effects	: Avoid release to the environment. Disposal must be done according to official regulations.
SECTION 13: Disposal consideration	S
13.1. Waste treatment methods	
Regional 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.
Ecology - waste materials	: Dispose of as unused product.
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IATA / AD	N
14.1. UN number	
Not applicable	
14.2. UN proper shipping name	
Not applicable 14.3. Additional information	
Other information	: No supplementary information available.
Special transport precautions	: Not dangerous goods.
Overland transport	
No additional information available	
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 Annex	I of MARPOL 73/78 and the IBC Code
Not applicable	
SECTION 15: Regulatory information	
15.1. US Federal regulations	
LABELED SUCCINYLACETONE STANDARD	SET T (51568-18-4 (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 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
SUCCINYLACETONE (3,4,5,6,7-13C5, 99%) (5	1568-18-4 (Unlabeled))
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA 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	
-	SET T (51568-18-4 (Unipheled))
LABELED SUCCINYLACETONE STANDARD	
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15.2.1. National regulations	
No additional information available	

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## 15.3. US State regulations LABELED SUCCINYLACETONE STANDARD SET T(51568-18-4 (Unlabeled)) U.S. - California - Proposition 65 - Carcinogens List No U.S. - California - Proposition 65 - Developmental No Toxicity U.S. - California - Proposition 65 - Reproductive No Toxicity - Female U.S. - California - Proposition 65 - Reproductive No Toxicity - Male State or local regulations U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List SUCCINYLACETONE (3,4,5,6,7-13C5, 99%) (51568-18-4 (Unlabeled)) U.S. - California -U.S. - California · U.S. - California U.S. - California -No significant risk level Proposition 65 -Proposition 65 -Proposition 65 -Proposition 65 -(NSRL) Carcinogens List **Developmental Toxicity** Reproductive Toxicity -Reproductive Toxicity -Female Male No No No No SUCCINYLACETONE (3,4,5,6,7-13C5, 99%) (51568-18-4 (Unlabeled)) State or local regulations U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List

## **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:

	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	

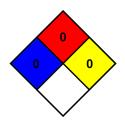
## NFPA health hazard

NFPA fire hazard

NFPA reactivity

: 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.

- : 0 Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
- : 0 Material that in themselves are normally stable, even under fire conditions.



## **Hazard Rating**

Health Flammability Physical : 0 Minimal Hazard - No significant risk to health

- : 0 Minimal Hazard
- : 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