

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: 05/06/2018 Revision date: 29/06/2018 Supersedes: 05/06/2018

CLM-10604

Version: 1.1

SECTION 1: Identification of th	ne substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Substance name	: PHENYLPYRUVIC ACID, SODIUM SALT (13C9, 99%)
EC-No.	: 204-053-2 (Unlabeled)
CAS-No.	: 114-76-1 (Unlabeled)
Product code	: CLM-10604
Formula	: *C9H7NaO3
Synonyms	: 2-Oxo-3-phenylpropanoic acid / Sodium phenylpyruvate
1.2. Relevant identified uses of t	he substance 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	
1.3. Details of the supplier of the	safety data sheet
50 Frontage Road Andover, MA 01810 USA USA: 1-800-322-1174 Int: 1-978-749-8 <u>cilsales@isotope.com</u> www.isotope.ccc	
Emergency telephone numb	er
Emergency numbers:	
Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hours)	s)
SECTION 2: Hazards identifica	tion
2.1. Classification of the substan	ice or mixture
Classification according to Regulation Not classified	ו (EC) No. 1272/2008 [CLP]
Classification according to Directive 6 Not classified	67/548/EEC [DSD] or 1999/45/EC [DPD]
GHS-US classification Not classified	
Adverse physicochemical, human hea No additional information available	alth and environmental effects

2.2. Label elements

Labeling according to Regulation (EC) No. 1272/2008 [CLP] No labeling applicable

GHS-US labeling

No labeling applicable

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2.3. **Other hazards**

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
PHENYLPYRUVIC ACID, SODIUM SALT (13C9, 99%)	(CAS-No.) 114-76-1 (Unlabeled) (EC-No.) 204-053-2 (Unlabeled) (EC Index-No.)	100	Not classified
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
PHENYLPYRUVIC ACID, SODIUM SALT (13C9, 99%)	(CAS-No.) 114-76-1 (Unlabeled) (EC-No.) 204-053-2 (Unlabeled) (EC Index-No.)	100	Not classified

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

Name	Product identifier	%	GHS-US classification
PHENYLPYRUVIC ACID, SODIUM SALT (13C9, 99%) (Main constituent)	(CAS-No.) 114-76-1 (Unlabeled)	100	Not classified

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	: If you feel unwell, seek medical advice (show the label where possible). Evacuate danger area.
First-aid measures after inhalation	: When symptoms occur: go into open air and ventilate suspected area. If not breathing, give artificial respiration. Get medical advice/attention.
First-aid measures after skin contact	: Wash with plenty of soap and water. Get immediate medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes.
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.
4.2. Most important symptoms and	effects, both acute and delayed
Symptoms/effects after inhalation	: May be harmful if inhaled. May cause respiratory irritation.
Symptoms/effects after skin contact	: May be harmful in contact with skin. May cause moderate irritation.
Symptoms/effects after eye contact	: May cause 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	: Water spray. dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
5.2. Special hazards arising from the	e substance or mixture
No additional information available	
5.3. Advice for firefighters	
Firefighting instructions	 Fight fire with normal precautions from a reasonable distance. Wear a self contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Wear recommended personal protective equipment.
SECTION 6: Accidental release n	neasures
6.1. Personal precautions, protectiv	e equipment and emergency procedures
6.1.1. For non-emergency personnel	
6.1.1. For non-emergency personnel Emergency procedures	: Avoid breathing vapors, mist, gas. Avoid dust formation.

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6.1.2. For emergency responders	
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 precautions	
Prevent entry to sewers and public waters	. Do not allow to enter drains or water courses. Avoid release to the environment.
6.3. Methods and material for cont	ainment and cleaning up
For containment	: Take up mechanically (sweeping, shoveling) and collect in suitable container for disposal.
Methods for cleaning up	: This material and its container must be disposed of in a safe way, and as per local legislation.
6.4. Reference to other sections	
For further information refer to section 13.	
SECTION 7: Handling and stora	ge
7.1. Precautions for safe handling	
Precautions for safe handling	: Provide adequate ventilation to minimize dust and/or vapor concentrations.
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle in accordance with good industrial hygiene and safet practice.
7.2. Conditions for safe storage, ir	ncluding any incompatibilities
Technical measures	: Store in a well-ventilated place. Keep container tightly closed.
Storage conditions	: Store in freezer (-20°C). Protect from light, air and moisture.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/	personal protection
8.1 Control parameters	
No additional information available	
No additional information available 8.2. Exposure controls	· Wash hands and other exposed areas with mild soap and water before eating, drinking or
No additional information available 8.2. Exposure controls	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
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No additional information available 8.2. Exposure controls Appropriate engineering controls Personal protective equipment Materials for protective clothing Hand protection Eye protection Skin and body protection Respiratory protection Environmental exposure controls SECTION 9: Physical and chem	 smoking and when leaving work. Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus. Wear suitable protective clothing and gloves. Wear suitable protective clothing and gloves. Wear suitable protective clothing and gloves. Wear suitable protective clothing, gloves and eye/face protection. In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator Avoid release to the environment. ical properties and chemical properties
No additional information available 3.2. Exposure controls Appropriate engineering controls Personal protective equipment Materials for protective clothing Hand protection Eye protection Skin and body protection Respiratory protection Environmental exposure controls SECTION 9: Physical and chem 9.1. Information on basic physical Physical state Appearance Molecular mass	 smoking and when leaving work. Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus. <i>Wear</i> suitable protective clothing and gloves. Wear suitable protective clothing and gloves. Wear suitable protective clothing and gloves. Wear eye protection. Chemical goggles or face shield with safety glasses. Wear suitable protective clothing, gloves and eye/face protection. In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator. Avoid release to the environment. ical properties and chemical properties Solid Powder 195.07 g/mol (Labeled)

- Relative evaporation rate (butyl acetate=1) : No data available Melting point : > 300 °C (> 572 °F)
- Freezing point : No data available
- Boiling point : No data available Flash point : No data available
- Auto-ignition temperature : No data available

Decomposition temperature

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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

Other information 9.2.

No additional information available

SECTI	ON 10: Stability and reactivity
10.1.	Reactivity
No addit	ional information available
10.2.	Chemical stability
One yea	r after receipt of order if stored as stated in "Storage" section. Re-QC after one year.
10.3.	Possibility of hazardous reactions
No addit	ional information available
10.4.	Conditions to avoid
No addit	ional information available
10.5.	Incompatible materials
Strong o	ixidizing agents.
10.6.	Hazardous decomposition products

Carbon oxides (CO, CO2). sodium oxides.

SECTION 11: Toxicological informat	ion
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity - single exposure	: Not classified
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 irritation.
Symptoms/effects after skin contact	: May be harmful in contact with skin. May cause moderate irritation.
Symptoms/effects after eye contact	: May cause eye irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed.

SECTION 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.

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12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
	wé.
12.5. Results of PBT and vPvB assessme No additional information available	AIL CONTRACTOR OF A CONTRACTOR OFTA
12.6. Other adverse effects No additional information available	
SECTION 13: Disposal consideration	15
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 / A	DN
14.1. UN number	
Not applicable	
44.0 LIN second chinging second	
14.2. UN proper shipping name Not applicable Image: Comparison of the second	
Not applicable	
14.3. Additional information	
Other information	: No supplementary information available.
Special transport precautions	: Not dangerous.
Special transport precautions	. Not dangelous.
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.

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	
PHENYLPYRUVIC ACID, SODIUM SALT (13C9)	, 99%) (114-76-1 (Unlabeled))
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.

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15.2. International regulations

CANADA

PHEN	IYLPYRUVIC ACID, SODIUM SALT (13C9, 99%) (114-76-1 (Unlabeled))
Listed	I on the Canadian DSL (Domestic Substances List)

15.2.1. National regulations

No additional information available

15.3. US State regulations

PHENYLPYRUVIC ACID, SODIUM SALT (13C9, 99%)(114-76-1 (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

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.
NFPA health hazard	: 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.
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	: 0 Minimal Hazard - No significant risk to health
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