

## 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

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Version: 1.1

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Substance

Substance name : SODIUM FORMATE (13C, 99%; D, 98%)

CDLM-6203

EC-No. : 205-488-0 (Unlabeled)

 CAS-No.
 : 23102-86-5

 Product code
 : CDLM-6203

 Formula
 : D\*CO2NA

Synonyms : Formic acidsodium salt

#### 1.2. Relevant identified uses of the 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

Cambridge Isotope Laboratories, Inc.

50 Frontage Road Andover, MA 01810

USA

USA: 1-800-322-1174 Int: 1-978-749-8000 <u>cilsales@isotope.com</u> 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 mixture

## Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

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

Not classified

#### **GHS-US** classification

Not classified

#### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

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

No labeling applicable

#### **GHS-US** labeling

No labeling applicable

## 2.3. Other hazards

No additional information available

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## **SECTION 3: Composition/Information on ingredients**

#### 3.1. Substances

Name	Product identifier	%	Classification according to Directive 67/548/EEC
SODIUM FORMATE (13C, 99%; D, 98%)	(CAS-No.) 23102-86-5 (EC-No.) 205-488-0 (Unlabeled)	100	Not classified
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
SODIUM FORMATE (13C, 99%; D, 98%)	(CAS-No.) 23102-86-5 (EC-No.) 205-488-0 (Unlabeled)	100	Not classified

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

Name	Product identifier	%	GHS-US classification
SODIUM FORMATE (13C, 99%; D, 98%) (Main constituent)	(CAS-No.) 23102-86-5	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 measures

First-aid measures after inhalation : If breathed in, move person into fresh air. If not breathing, give artificial respiration.

First-aid measures after skin contact : Wash off with soap and plenty of water. First-aid measures after eye contact : Flush eyes with water as a precaution.

First-aid measures after ingestion : Never give anything by mouth to an unconscious person. Rinse mouth with water.

#### 4.2. Most important symptoms and effects, both acute and delayed

No additional information available

## 4.3. Indication of any immediate medical 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 substance or mixture

No additional information available

#### 5.3. Advice for firefighters

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

## 6.1.1. For non-emergency personnel

Emergency procedures : Use per

Use personal protective eqipment. Avoid dust formation. Avoid breathing vapours, mist or gas.
 Ensure adequate ventillation. Evacuate personnel to safe areas. Avoid breathing dust.

#### 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

## 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Sweep up and shovel. Keep in suitable, closed containers for disposal.

#### 6.4. Reference to other sections

No additional information available

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Additional hazards when processed : 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.

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#### 7.2. Conditions for safe storage, including 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/personal protection

### 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

Personal protective equipment : Gloves. Protective clothing. Self-contained breathing apparatus. Protective goggles.



Hand protection : Wear suitable protective clothing and gloves.

Eye protection : Chemical goggles or safety glasses.
Skin and body protection : Wear suitable protective clothing.

Respiratory protection : When appropriate, use NIOSH/CEN approved respirator.

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

## 9.1. Information on basic physical and chemical properties

Physical state : Solid
Appearance : Crystalline

Molecular mass : 70.01 g/mol (Labeled)

Color : White

Odor : No data available Odor threshold No data available : No data available pΗ Relative evaporation rate (butyl acetate=1) : No data available : 253 °C (487 °F) Melting point Freezing point : No data available : > 300 °C (> 572 °F) Boiling point : No data available Flash point : No data available Auto-ignition temperature Decomposition temperature No data available : No data available Flammability (solid, gas) Vapor pressure : No data available Relative vapor density at 20 °C : No data available Relative density No data available

Solubility : Water: 550 g/l at 2 °C (36 °F) - completely soluble

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

## 10.2. Chemical stability

Five years after receipt if stored as stated in "Storage" section. Re-QC after 5 years.

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#### 10.3. Possibility of hazardous reactions

No additional information available

#### **Conditions to avoid**

No additional information available

#### Incompatible materials

Strong oxodizing agents. Strong acids.

#### 10.6. **Hazardous decomposition products**

Carbon dioxide. sodium oxides.

#### **SECTION 11: Toxicological information**

#### Information on toxicological effects

Acute toxicity : Not classified

SODIUM FORMATE (13C, 99%; D, 98%) (23102-86-5)		
LD50 oral rat	11200 mg/kg	
LC50 inhalation rat (mg/l)	670 mg/m³ 4 h	
	: Not classified : 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 : Not classified

exposure

Aspiration hazard : Not classified

Potential Adverse human health effects and

symptoms

: To the best of our knowledge, the chemical, physical, and toxicological properties have not

been thoroughly investigated.

## **SECTION 12: Ecological information**

#### **Toxicity**

SODIUM FORMATE (13C, 99%; D, 98%) (23102-86-5)		
LC50 fish 1 > 954 mg/l Pimephales promelas (Fathead minnow) - 96 h		
EC50 Daphnia 1 > 1000 mg/l Daphnia magna (Water flea) - 24 h EC50 Daphnia 2 1070 mg/l Daphnia magna (Water flea) - 48 h		
		EC50 other aquatic organisms 2

#### Persistence and degradability 12.2.

SODIUM FORMATE (13C, 99%; D, 98%) (23102-86-5)			
Persistence and degradability	aerobic C.4.A.	Result: 99.6% - Readily biodegradable.	Method: Directive 67/548/EEC Annex V,

#### 12.3. **Bioaccumulative potential**

No additional information available

#### **Mobility in soil**

No additional information available

## Results of PBT and vPvB assessment

No additional information available

#### Other adverse effects

No additional information available

### **SECTION 13: Disposal considerations**

#### Waste treatment methods

Waste treatment methods : Offer surplus and non-recyclable solutions to a licensed disposal company.

Product/Packaging disposal recommendations : Dispose of as unused product.

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## **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

Other information : No supplementary information available.

Special transport precautions : DOT/IMDG/IATA: 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 : DOT/IMDG/IATA: Not dangerous goods.

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

Not applicable

## **SECTION 15: Regulatory information**

## 15.1. US Federal regulations

<b>SODIUM FORMATE (13C, 99%</b> ; D, 98%) <b>(23102-86-5)</b>		
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	

#### 15.2. International regulations

#### CANADA

No additional information available

## 15.2.1. National regulations

No additional information available

## 15.3. US State regulations

<b>SODIUM FORMATE (13C, 99%;</b> D, 98%) <b>(23102-86-5)</b>		
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 New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) 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.

NFPA health hazard : 0 - Materials that, under emergency conditions, would offer

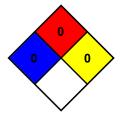
no hazard beyond that of ordinary combustible materials.

: 0 - Materials that will not burn under typical fire conditions, NFPA fire hazard including intrinsically noncombustible materials such as

concrete, stone, and sand.

: 0 - Material that in themselves are normally stable, even NFPA reactivity

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

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