

Safety data sheet

Issue Date 10-Dec-2018 Revision Date 07-Dec-2018

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Product Name Sodium Formate

Chemical NameSodium formate

CAS No
141-53-7

Other means of identification

Pure substance/mixture Substance

Recommended use of the chemical and restrictions on use

Application Tanning agent, Bleaching agent, Deicing agent, Raw material, in mining (drilling muds

and ore flotation)

Uses advised against Not identified.

Details of the supplier of the safety data sheet

Manufacturer Address

Lab Alley LLC 22111 Highway 71 West, Suite 601 Spicewood, Texas 78669 Tel.: 512-668-9918 www.laballey.com

Emergency telephone number

Infotrac: 800-535-5053

2. HAZARDS IDENTIFICATION

Classification

Label elements

Symbols/Pictograms

Not applicable

Signal word

None

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Hazard statements

None

Precautionary Statements

Not applicable

Supplemental information

Not applicable.

Hazards not otherwise classified (HNOC)

None known

Unknown Acute Toxicity

Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical Name	CAS No	Weight-%
Sodium formate	141-53-7	>97

Additional information

No information available

4. FIRST AID MEASURES

Description of first aid measures

Inhalation First aid measures not required, but get fresh air for personal comfort.

Skin contact First aid measures not required, but wash exposed skin with soap and water for hygienic

reasons.

Eye contact First aid measures not required, but rinse opened eye under running water for personal

comfort to avoid mechanical irritation.

Ingestion If a large quantity has been ingested or if you feel unwell, get medical advice/attention.

Most important symptoms and effects, both acute and delayed

None known

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

Water with full jet as this can form a dust cloud.

Specific hazards arising from the chemical

Hazardous combustion products

Carbon monoxide (CO). Carbon dioxide (CO2).

Protective equipment and precautions for firefighters

No special protective equipment required.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

If dusty conditions wear respiratory protective device with dust filter, gloves and protective clothing for hygienic reasons.

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Ensure adequate ventilation, especially in confined areas.

Environmental precautions

Do not allow into any sewer, on the ground or into any body of water. See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so

Small spill Vacuum or sweep material and place in a disposal container.

Large spill Cover powder spill with plastic sheet or tarp to minimize spreading. Vacuum or sweep

material and place in a disposal container.

Methods for cleaning up

Take up mechanically, placing in appropriate containers for disposal. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Clean contaminated surface thoroughly. Use personal protective equipment as required. Avoid creating dust.

Reference to other sections

See Section 7, 8, 13 for more information.

7. HANDLING AND STORAGE

Precautions for safe handling

Use personal protection recommended in Section 8. Avoid generation of dust. Ensure adequate ventilation, especially in confined areas.

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Very hygroscopic; protect from moisture.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Users are advised to consider national Occupational Exposure Limits or other equivalent values.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Particulates not otherwise	TWA: 10 mg/m³ inhalable	TWA: 15 mg/m³ total dust	Not available
classified (PNOC)	particles, recommended	TWA: 5 mg/m³ respirable fraction	
	TWA: 3 mg/m ³ respirable	(vacated) TWA: 15 mg/m ³ total	
	particles, recommended	dust	
		(vacated) TWA: 5 mg/m ³	
		respirable fraction	
		TWA: 15 mppcf respirable fraction	
		TWA: 50 mppcf total dust	

Component	Alberta	British Columbia	Ontario	Quebec
Particulates not otherwise	TWA: 10 mg/m ³			
classified (PNOC)	TWA: 3 mg/m ³	TWA: 3 mg/m ³	TWA: 3 mg/m ³	
RR-00072-6 (0)				

Appropriate engineering controls

Eyewash stations. Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles)

Hand Protection Protective gloves not really required. However, we recommend using protective gloves

made of rubber. Chloroprene rubber, CR. Nitrile rubber, NBR.

Skin and body protection

Normal work clothes for the chemical industry (long-legged pants and sleeves).

Respiratory protection

Provide suction extractors if dust is formed or use dust filter mask (minimum N95).

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

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Appearance powder crystalline white

Odor Mild

Odor threshold Not applicable

Property Value Remarks • Method

pH Not applicable
Melting point / freezing point 258 °C OECD Test No

Melting point / freezing point 258 °C OECD Test No. 102: Melting Point / Melting Range

Boiling point / boiling rangeDecomposes, ASTM E 537-02

Flash point Not applicable
Evaporation rate Not applicable
Flammability (solid gas) Not flammable

Flammability (solid, gas)

Not flammable

Explosive limits

Upper explosive limitsNot applicableLower explosive limitsNot applicable

Vapor pressure1.0 x 10-5 PaMPBPWIN v1.43Vapor densityMPBPWIN v1.43

Relative density
Water solubility
No information available
Soluble in water

Solubility(ies) No information available

Partition coefficient < -1.8 No information available OECD Test No. 107:

Partition Coefficient (n-octanol/water): Shake

Autoignition temperature Flask Method
No information

Autoignition temperatureNo information availableDecomposition temperature411 °CASTM E 537-02

Kinematic viscosity

Dynamic viscosity

Not applicable
Not applicable

Explosive propertiesOxidizing properties
Not explosive.
Not oxidizing.

Density 1.91 g/cm³ ISO 1183-1

Bulk density

No information available

Other Information

No information available

10. STABILITY AND REACTIVITY

Reactivity

There exists no specific test data for this product. For further information, see the subsequent subsections of this chapter.

Chemical stability

Stable under normal conditions.

Possibility of Hazardous Reactions

No dangerous reactions known under normal conditions of use.

Conditions to avoid

None known.

Incompatible materials

None known.

Hazardous decomposition products

None known.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation. Dermal.

Symptoms related to the physical, chemical and toxicological characteristics

None known.

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Numerical measures of toxicity

Unknown Acute Toxicity Not applicable.

Acute toxicity

May be harmful if swallowed.

Sodium formate (141-53-7)				
Method	Species	Exposure route	Effective dose	Remarks
OECD Test No. 420: Acute Oral Toxicity - Fixed Dose Procedure	Rat	Oral	3000	LD50 (lethal dose) mg/kg
OECD Test No. 402: Acute Dermal Toxicity	Rat	Dermal	>2000	LD50 (lethal dose) mg/kg
EPA OTS 798.1150	Rat	Inhalation	>0.67	LC0 mg/m³ The maximal attainable dust concentration of 0.67 mg/l produced no signs of toxicity.

Skin corrosion/irritation

Non-irritating to the skin.

Sodium formate (141-53-7)						
Method	Species	Exposure route	Results:			
OECD Test No. 404: Acute Dermal Irritation/Corrosion	rabbit	Dermal	Non-irritant			

Serious eye damage/eye irritation

Non-irritant.

Sodium formate (141-53-7)						
Method	Species	Exposure route	Results:			
OECD Test No. 405: Acute Eye	rabbit	Eye	Non-irritant No classification			
Irritation/Corrosion		-	according to GHS criteria.			

Respiratory or skin sensitization

No sensitising effects known.

Sodium formate (141-53-7)			
Method	Species	Exposure route	Results:
OECD Test No. 406: Skin Sensitization	Guinea pig	Skin	Not a skin sensitizer read-across from supporting substance (structural analogue)

Germ cell mutagenicity

Not mutagenic.

Sodium formate (141-53-7)		
Method	Species	Results:
OECD Test No. 471: Bacterial Reverse	in vitro	Negative
Mutation Test		
OECD Test No. 476: In vitro Mammalian Cell	in vitro	Negative read-across from supporting
Gene Mutation Test		substance (structural analogue)
OECD Test No. 473: In vitro Mammalian	in vitro	Negative read-across from supporting
Chromosome Aberration Test		substance (structural analogue)
OECD Test No. 477: Genetic Toxicology:	in vivo	Negative
Sex-Linked Recessive Lethal Test in		
Drosophila melanogaster		

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Carcinogenicity

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Sodium formate (141-53-7)				
Method	Species	Exposure route	Effective dose	Remarks
OECD Test No. 453:	Rat	Oral	2000	NOAEL mg/kg bw/day
Combined Chronic Toxicity/Carcinogenicity				No carcinogenic effects have been observed.
Studies				read-across from
				supporting substance
				(structural analogue)

Reproductive toxicity

This product does not contain any known or suspected reproductive hazards.

Sodium formate (141-53-7)				
Method	Species	Exposure route	Effective dose	Remarks
OECD Test No. 414: Prenatal Development Toxicity Study	Rat	Oral	1000	NOAEL mg/kg bw/day No embryotoxic or teratogenic effects have been observed.
OECD Test No. 416: Two-Generation Reproduction Toxicity	rabbit	Oral	1000	NOAEL mg/kg bw/day No impairment of fertility has been observed. No embryotoxic or teratogenic effects have been observed.

STOT - single exposure

No known effect.

STOT - repeated exposure

Sodium formate (141-53-7)				
Method	Species	Exposure route	Effective dose	Remarks
OECD Test No. 408:	Rat	Oral	3138	NOAEL mg/kg bw/day
Repeated Dose 90-Day Oral				read-across from
Toxicity Study in Rodents				supporting substance
				(structural analogue)

Aspiration hazard

Not applicable.

12. ECOLOGICAL INFORMATION

Toxicity

Low toxicity to aquatic organisms.

Sodium formate (141-53-	·7)				
Method	Species	Exposure route	Effective dose	Exposure time	Remarks
EPA OTS 797.1400	Oncorhynchus mykiss (rainbow trout)	Freshwater	>1000	96h	LC50 (lethal concentration) mg/l
EPA-660/3-75-009	Daphnia magna	Freshwater	>1000	48h	EC50 (effective concentration) mg/l
OECD Test No. 201: Freshwater Alga and Cyanobacteria, Growth Inhibition Test	Pseudokirchneriell a subcapitata	Freshwater	>1000	72h	EC50 (effective concentration) mg/l read-across from supporting substance (structural analogue)

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Persistence and degradability

Readily biodegradable.

Sodium formate (141-53-7)				
Method	Value	Exposure time	Results:	
OECD Test No. 306:	86%	28d	Readily biodegradable	
Biodegradability in Seawater				
DIN EN 1899 BOD	3940	5d	mgO2/kg	

Bioaccumulative potential

Not potentially bioaccumulable.

Chemical Name	Partition coefficient	Bioconcentration factor (BCF)
Sodium formate	-1.8	

Mobility in soil

The substance is not expected to adsorb to a high degree to suspended solids and sediment based upon the log Pow.

Other adverse effects

None known.

13. DISPOSAL CONSIDERATIONS

Disposal methods

Disposal should be in accordance with applicable regional, national and local laws and regulations. Incinerate at a licensed installation.

Contaminated packaging

Thoroughly emptied and clean packaging may be recycled.

14. TRANSPORT INFORMATION

TDG Road transport Not regulated

RID Rail transport Not regulated

IMDG Sea transport Not regulated

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

IATA Air transport Not regulated

15. REGULATORY INFORMATION

International Regulations

Not applicable.

National regulations

Canada

See section 8 for national exposure control parameters.

WHMIS Hazard Class

Non-controlled

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16. OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

Not applicable

Issue Date10-Dec-2018Revision Date07-Dec-2018

Revision Note SDS sections updated; 1

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

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