



ISO 9001 Quality System Certified Organization

MANUFACTURER & EXPORTER OF LABORATORY CHEMICALS AND OILS

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 www.ultrapurelab.com

MATERIAL SAFETY DATA SHEET (MSDS) SDS/MSDS

Sodium formate Extra pure

1. Identification

Product Name : Sodium formate

CAS No141-53-7

Synonyms

Recommended Use

Uses advised against

Formic acid sodium salt

Laboratory chemicals.

2. Hazard(s) identification

Classification

Classification according to [US] OSHA (29 CFR 1910.1200, 2024)

Skin Corrosion/Irritation

Serious Eye Damage/Eye Irritation

Category 2

Category 2

Specific target organ toxicity (single exposure)

Target Organs - Respiratory system.

Combustible dust

Label Elements

Signal Word

Warning

Hazard Statements

May form combustible dust concentrations in air

Category 3

Yes

Causes eye irritation

Causes skin irritation

May cause respiratory irritation

Precautionary Statements

Prevention

Wear protective gloves/protective clothing/eye protection/face protection

Wash face, hands and any exposed skin thoroughly after handling

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

Response

Call a POISON CENTER or doctor if you feel unwell

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Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing

Skin

IF ON SKIN: Wash with plenty of soap and water

Take off contaminated clothing

If skin irritation occurs: Get medical advice/attention

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Heating may cause an explosion

Hazards classified under paragraph (d)(1)(ii) of 1910.1200

No information available

Other hazards

Hygroscopic. May be harmful if swallowed. May cause sensitization of susceptible persons.

3. Composition/information on Ingredients

Component

Sodium formate

CAS No

Weight %

141-53-7

>95

4. First-aid measures

Eye Contact

Skin Contact

Inhalation

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Wash off immediately with plenty of water for at least 15 minutes. Get medical attention.

Remove to fresh air. Get medical attention. If not breathing, give artificial respiration.

Ingestion

Most important symptoms and effects

Notes to Physician

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Do NOT induce vomiting. Get medical attention.

. May cause adverse kidney effects: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea

Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media

Unsuitable Extinguishing Media

Flash Point

Method

Autoignition Temperature

Explosion Limits

Upper

Lower

Water spray. Carbon dioxide (CO₂). Dry chemical. Chemical foam.

No information available

No information available

No information available

No information available

No data available

No data available

Sensitivity to Mechanical Impact No information available

Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and

sources of ignition. Fine dust dispersed in air may ignite. Dust can form an explosive mixture with air.

Hazardous Combustion Products

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

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full

protective gear.

NFPA

Health

2

Flammability

1

Instability

1

Physical hazards

N/A



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6. Accidental release measures

Personal Precautions

Environmental Precautions

Methods for Containment and Clean

Up

Use personal protective equipment as required. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid dust formation. Do not touch damaged packages or spilled material.

See Section 12 for additional Ecological Information.

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

7. Handling and Storage

Handling

Storage.

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin and eyes. Do not breathe dust.

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from heat, sparks and flame. Protect from direct sunlight. Incompatible Materials. Strong oxidizing agents. Strong acids.

8. Exposure controls / personal protection

Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures

Personal Protective Equipment

Eye/face Protection

Skin and body protection

Respiratory Protection

Recommended Filter type:

Hygiene Measures

Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location.

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Wear appropriate protective gloves and clothing to prevent skin exposure.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Particle filter.

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Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance

Physical State

Color

Odor

Odor Threshold

Property

Melting Point/Range

Softening Point

Boiling Point/Range

Flash Point

Flammability (liquid)

Flammability (solid,gas)

Explosion Limits

Autoignition Temperature

Decomposition Temperature

pH

Viscosity

Water Solubility

Solubility in other solvents

Powder Solid

Off-white

pungent

No information available

Values

258 - 261 °C / 496.4 - 501.8 °F

No data available

360 °C / 680 °F

No information available

Not applicable

No information available

No data available

No data available

350 °C

7-8.5

Not applicable

550 g/L (20°C)

No information available

Partition Coefficient (n-octanol/water)

Vapor Pressure



UPLC
Ultra Pure-Lab Chem Industries



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Density / Specific Gravity

Bulk Density

Vapor Density

Particle characteristics

Other Information

Molecular Formula

Molecular Weight

Evaporation Rate

No data available

1.92

No data available

Not applicable

No data available

C H Na O2

68.01

Not applicable - Solid

Remarks

• Method

Method - No information available

Solid

5% aq.sol

Solid

Solid



UPLC
Ultra Pure-Lab Chem Industries

10. Stability and reactivity

Reactive Hazard

Stability

Conditions to Avoid

Incompatible Materials

None known, based on information available

Hygroscopic. Stable under normal conditions.

Incompatible products. Exposure to moist air or water. Avoid dust formation. Ignitions sources - heat, sparks and open flames.

Strong oxidizing agents, Strong acids

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2), Sodium oxides

Hazardous Polymerization

Hazardous Reactions

Hazardous polymerization does not occur.

None under normal processing.

11. Toxicological information

Information on expected route of exposure



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Inhalation

Ingestion

Eyes

Skin

Toxicology data for the components

Avoid breathing dust or spray mist.

No known effect based on information supplied.

Not an expected route of exposure.

No known effect based on information supplied.

Component

LD50 Oral

Sodium formate

LD50 = 11200 mg/kg (Rat)

LD50 Dermal

LD50 > 2000 mg/kg (Rat)

LC50 Inhalation

LC50 > 0.67 mg/L (Rat) 4 h

Toxicologically Synergistic

Products

(b) skin corrosion/irritation;

(c) serious eye damage/irritation;

(d) respiratory or skin sensitization;

Respiratory

Skin

(e) germ cell mutagenicity;

(f) carcinogenicity;

Component

CAS No

No information available

Based on available data, the classification criteria are not met

Based on available data, the classification criteria are not met

Based on available data, the classification criteria are not met

Based on available data, the classification criteria are not met

No information available

Based on available data, the classification criteria are not met

Not mutagenic in AMES Test

Based on available data, the classification criteria are not met

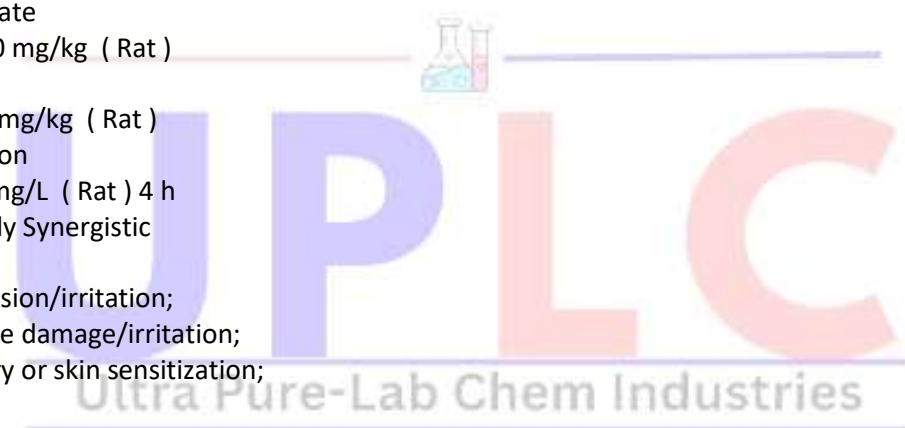
The table below indicates whether each agency has listed any ingredient as a carcinogen

IARC

NTP

Sodium formate

141-53-7





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Not listed

ACGIH

OSHA

Mexico

Not listed

(g) reproductive toxicity;

Not listed

Not listed

Based on available data, the classification criteria are not met

(h) STOT-single exposure;

Based on available data, the classification criteria are not met

Not listed

(i) STOT-repeated exposure;

Target Organs

(j) aspiration hazard;

Other Adverse Effects

Symptoms / effects, both acute and delayed

Other Adverse Effects

Endocrine Disrupting Properties

Based on available data, the classification criteria are not met

None known.

Not applicable

Solid

The toxicological properties have not been fully investigated. The hazards associated with formaldehyde may be seen in this product. May be harmful if swallowed

May cause adverse kidney effects. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

The toxicological properties have not been fully investigated. The hazards associated with formaldehyde may be seen in this product. May be harmful if swallowed.

This product does not contain any known or suspected endocrine disruptors.

12. Ecological information

Ecotoxicity

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system.

Persistence and Degradability

Bioaccumulation/ Accumulation

Mobility

Soluble in water Persistence is unlikely based on information available.

No information available.

Will likely be mobile in the environment due to its water solubility.

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13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT

TDG

IATA

IMDG/IMO

Not regulated

Not regulated

Not regulated

Not regulated

15. Regulatory Information

United States of America Inventory

Component

CAS No

TSCA

Sodium formate

Legend:

141-53-7

X

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA Inventory notification

Active-Inactive

ACTIVE

Not applicable

TSCA - EPA Regulatory

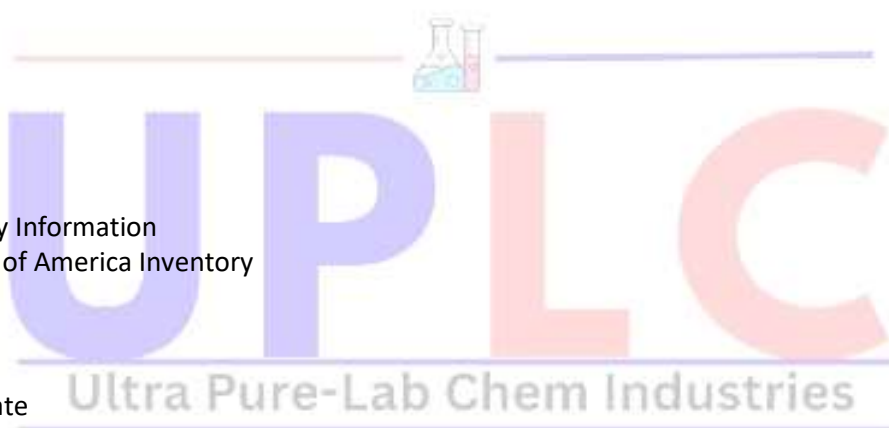
Flags

TSCA 12(b) - Notices of Export

International Inventories

Not applicable

Canada (DSL/NDL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea





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(KECL).

Component

CAS No

DSL

NDSL EINECS PICCS ENCS ISHL AICS IECSC KECL

Sodium formate

141-53-7

X

205-488-0

KECL - NIER number or KE number (<http://ncis.nier.go.kr/en/main.do>)

U.S. Federal Regulations

SARA 313

KE-17247

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

Clean Air Act

OSHA - Occupational Safety and

Health Administration

CERCLA

Not applicable

Not applicable

Not applicable

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive

Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and

Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65

U.S. State Right-to-Know

Regulations

U.S. Department of Transportation

Reportable Quantity (RQ):

DOT Marine Pollutant

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DOT Severe Marine Pollutant

U.S. Department of Homeland

Security

Other International Regulations

Mexico - Grade

This product does not contain any Proposition 65 chemicals.

Not applicable

This product does not contain any DHS chemicals.

No information available

Authorisation/Restrictions according to EU REACH

Component

CAS No

Not applicable

REACH (1907/2006)

Annex XIV - Substances

REACH (1907/2006)

Annex XVII - Restrictions

REACH Regulation (EC

1907/2006) article 59

Subject to Authorization on Certain Dangerous

Substances

Candidate List of

Substances of Very High

Concern (SVHC)

Sodium formate 141-53-7--

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component CAS No OECD HPV Persistent Organic

Pollutant

Ozone Depletion

Potential

Restriction of

Hazardous

Substances (RoHS)

Sodium formate 141-53-7 Listed Not applicable Not applicable Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)?

Not applicable

Other International Regulations

Component CAS No Seveso III Directive

(2012/18/EC)

Qualifying Quantities

for Major Accident

Notification



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Seveso III Directive

(2012/18/EC)

Qualifying Quantities

for Safety Report

Requirements

Rotterdam

Convention (PIC)

Basel Convention

(Hazardous Waste)

Sodium formate 141-53-7 Not applicable Not applicable Not applicable Not applicable

16. Other Information

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.

Ultra Pure-Lab Chem Industries

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