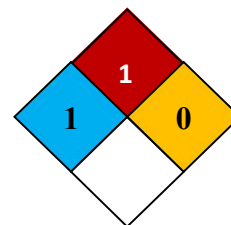


**SAFETY DATA SHEET**  
**SODIUM FORMATE**



**SECTION I: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**Product Name:** SODIUM FORMATE

**Chemical Formula:** CHO<sub>2</sub>Na

**UN Number:** Not regulated

**Hazchem code:** None allocated

**Application of the substance/ the preparation**  
 In dyeing industry, paper industry, leather tanning process, electroplating process, initial product for chemical reactions, agricultural chemicals

**Contact Information:**  
 SIDLEY CHEMMICAL CO.,LTD

Linyi City, ShanDong, China.

**Website:** www.sidleychem.com.

**Tel. No:** 0086-539-7576660

**SECTION II: HAZARDS IDENTIFICATION**

**Information concerning particular hazards for human and environment:** Not applicable

**Carcinogenic effects:** Not available

**Mutagenic effects:** Not available

**Teratogenic effects:** Not available

**Developmental toxicity:** Not available.

**Hazard description:** Harmful if swallowed or inhaled

**Hazards not otherwise classified (HNOC) May** be harmful if swallowed.

**Precautionary statement :**Not available.

**SECTION III: COMPOSITION AND INFORMATION ON INGREDIENTS**

**Chemical composition**

Name	CAS # / EC Number	% by Weight
Sodium formate	141-53-7/205-488-0	90 – 99.0



#### SECTION IV: FIRST AID MEASURES

**After inhalation:** Take affected persons into fresh air, restore breathing, First Aid measures not required.

**After skin contact:** Rinse with warm water.

**After eye contact:** Rinse opened eye for several minutes under running water.

**After swallowing:** Induce vomiting of conscious patient immediately by giving plenty of water to drink. Consult physician immediately in case of an unconscious victim

#### SECTION V: FIRE FIGHTING MEASURES

**Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**Unsuitable extinguishing media:** Water with full jet as this can form a dust cloud

**Protective equipment:** No special measures required.

At higher temperature decomposed to carbon dioxide and carbon monoxide gas.

#### SECTION VI: ACCIDENTAL RELEASE MEASURES

**Person-related safety precautions:** If dusty conditions wear respiratory protective device. with dust filters **gloves** and protective clothing for hygienic reasons. Ensure adequate ventilation, especially in confined areas.

**Measures for environmental protection:** Do not allow to enter sewers/surface or ground water.

**Measures for cleaning/collecting:** Sweep up and containerize for reclamation or disposal.

**Additional information:** No dangerous substances are released.

**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. Sweep up in a disposal container.

## SECTION VII: HANDLING AND STORAGE

### Handling:

**Information for safe handling:** Ensure good ventilation/exhaustion at the work place especially confined space. Avoid generation of dust.

### Storage:

**Requirements to be met by store rooms and receptacles:** Store in a cool dry location with ventilation.

**Further information about storage conditions:** This product is hygroscopic.

**Packing:** In 25 kgs polypropylene bags & in 500/1000 kgs polypropylene jumbo bags.

## SECTION VIII: EXPOSURE CONTROLS / PERSONAL PROTECTION

### Ingredients with limit values that require monitoring at the work place:

The Product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**OES:** Short term value \* 15 mg/m<sup>3</sup>

Long term value \* 10 mg, \*\* 5mg/m<sup>3</sup>

\* Total inhalable dust \*\* Respirable dust.

**OSHA PEL: TWA: 15 mg/m<sup>3</sup> total dust TWA: 5 mg/m<sup>3</sup> respirable fraction**

### Exposure limits:

**NIOSH/ACGIH: None listed**

**Ontario/ Alberta/ British Columbia: TWA: 10 mg/m<sup>3</sup> total dust TWA: 3 mg/m<sup>3</sup> Respirable fraction.**

**Personal protective equipment:** General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals.

**Respiratory protection:** Suitable respiratory protective device recommended

### Protection of hands:



### Protective gloves

**Material of gloves:** Chloroprene rubber, CR Nitrile rubber, NBR.

### Penetration time of glove material:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:**



**Safety glasses.**

## SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

**General Information:**

**Form:** Crystalline.

**Color:** White

**Odor:** Odorless

**Change in condition:**

**Melting point/Melting Range:** 253 – 258°C.

**Flash point:** Not applicable. ·

**Density at 20 °C:** 1919 kg/m<sup>3</sup>.

**Solubility in / Miscibility with water:** Easily

soluble. · **Partition coefficient: n-octanol /water:** -1.55/-0.22

log POW **Decomposition temperature:** 411°C

## SECTION X: STABILITY AND REACTIVITY

**Chemical Stable:** Stable at normal temperature

The produce is hygroscopic. readily absorbs moisture from atmosphere - solutions are strong base

**Thermal decomposition/conditions to be avoided:** Avoid flames and strong mineral acids.

**Dangerous reactions:** No dangerous reactions known.

**Dangerous decomposition products:** No dangerous decomposition products known.

**SECTION XI: TOXICOLOGICAL INFORMATION**

**Acute Toxicity:**

**LD/LC50 values relevant for classification:**

**141-53-7 sodium formate**

<b>Oral (OECD Test No. 420)</b>	<b>LD50</b>	<b>3000mg/kg(rat)</b>
<b>Dermal (OECD Test No. 402)</b>	<b>LD50</b>	<b>&gt;2000mg/kg(rat)</b>

**Primary irritant effect:**

**On the skin:** No irritating effect.

**OECD404**

**On the eye:** Slight irritating effect.

**EPA OTS798-4500**

**Sensitization:** No sensitizing effects known.

**Other information (about experimental toxicology): Ames test:** Negative (Not mutagen)

**Reproductive Toxicity:** This product does not contain any known or suspected reproductive hazards..

**SECTION XII: ECOLOGICAL INFORMATION**

**Information about elimination (persistence and degradability):**

**141-53-7 sodiumformate**

<b>BOD28</b>	<b>86%(OECD306)</b>
<b>COD</b>	<b>240mg/g(O2)</b>
<b>Zahn-Wellen</b>	<b>100%</b>

The product is readily biodegradable.

**Behavior in environmental systems:**

**Mobility and bioaccumulation potential:** Does not accumulate in organisms

**Eco toxicological effects**

**Aquatic toxicity:** Low toxicity to aquatic organism.

**141-53-7 sodiumformate**

<b>EC0</b>	<b>&gt;1000mg/l(daphnia)</b>
<b>EC10/18h</b>	<b>10600mg/l(bacteria)</b>
<b>EC50/48h</b>	<b>790mg/l(alga)</b>
<b>LC50/96h</b>	<b>&gt;1000mg/l(fish)</b>

**Remark:** Harmless to fish up to the tested concentration

**SECTION XIII: DISPOSAL CONSIDERATION**

**Recommendation:** Disposal must be made according to official regulations.

**SECTION XIV: TRANSPORT INFORMATION**

<b>Land transport ADR/RID (cross-border)</b> <b>ADR/RID class:</b> Not Regulated
<b>Maritime transport IMDG:</b> <b>IMDG Class:</b> : Not Regulated -
<b>Air transport ICAO-TI and IATA-DGR:</b> <b>ICAO/IATA Class:</b> Not Regulated

**DOT regulations (United States):**

**Hazard class:** -



**Transport/additional information:** Not dangerous according to above specifications.

**SECTION XV: REGULATORY INFORMATION**

**HMIS:**

HealthHazard:1

Fire Hazard:1

Reactivity:0

Personal Protection: E

1	1
1	1
0	0
Personal Protection	E

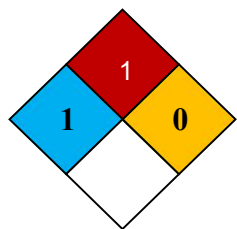
**NATIONAL FIRE PROTECTION ASSOCIATION (U.S.A.):**

Health:1

Flammability:1

Reactivity:0

Specific Hazard:





### Labeling according to EU guidelines

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials.

Observe the general safety regulations when handling chemicals.

### National regulations:

Registrations

TSCA (USA)	DSL(Canada)	ENCL (Japan)	ECL (Korea)	AICS (Australia)	IECSC(China)
YES	YES	YES	YES	YES	YES

### Water hazard class:

**Water hazard class 1(Self-assessment):** slightly hazardous for water.

### SECTION XVI: OTHER INFORMATION

Information contact: Quality Control and Product Development Department

For any enquiry/comment regarding this Material Safety Data Sheet,

Kindly contact: [Contact@sidleychem.com](mailto:Contact@sidleychem.com)

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall SIDLEYCHEM be liable for any claims, losses, or damages of any third-party or for lost profits or any special, indirect, incidental, consequential or exemplary damages how so ever arising, even if SIDLEYCHEM has been advised of the possibility of such damages.