

Sodium Formate

Section 1 - Chemical Product and Company Identification

- **MSDS Name** : Sodium Formate
- **Catalog Numbers** : NC9678532, S648 500, S648-500, S648500, XXS648250LB
- **Synonyms** : Formic Acid Sodium Salt

Company Identification :

- Fisher Scientific
- 1 Reagent Lane
- Fair Lawn, NJ 07410

For information, call : 201-796-7100

Emergency Number : 201-796-7100

For CHEMTREC assistance, call : 800-424-9300

For International CHEMTREC assistance, call : 703-527-3887

Section 2 - Composition, Information on Ingredients

- **CAS#** : 141-53-7
 - **Chemical Name** : SODIUM FORMATE
 - **Percent** : >99
 - **EINECS/ELINCS** : 205-488-0

 - **Hazard Symbols** : None listed.
 - **Risk Phrases** : None listed.
-

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

- **Appearance** : white.
- **Caution** : May cause eye irritation. May cause respiratory tract irritation. This is expected to be a low hazard for usual industrial handling. The toxicological properties of this material have not been fully investigated. Hygroscopic. May cause skin irritation.
- **Target Organs**: None known.

Potential Health Effects

- **Eye** : May cause eye irritation.
 - **Skin** : Low hazard for usual industrial handling.
 - **Ingestion** : Low hazard for usual industrial handling. The toxicological properties of this substance have not been fully investigated.
 - **Inhalation** : May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.
 - **Chronic** : No information found.
-

Section 4 - First Aid Measures

- **Eyes** : Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
 - **Skin** : Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.
 - **Ingestion** : If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.
 - **Inhalation** : Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.
 - **Notes to Physician** : Treat symptomatically and supportively.
-

Section 5 - Fire Fighting Measures

General Information : As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Dusts at sufficient concentrations can form explosive mixtures with air. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas.

Extinguishing Media : For small fires, use water spray, dry chemical, carbon dioxide or chemical foam. Do NOT get water inside containers.

Section 6 - Accidental Release Measures

General Information : Use proper personal protective equipment as indicated in Section 8.

Spills / Leaks : Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions. Provide ventilation. Do not get water inside containers.

Section 7 - Handling and Storage

Handling : Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with skin and eyes. Avoid ingestion and inhalation.

Storage : Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from water.

Section 8 - Exposure Controls, Personal Protection

- **Engineering Controls** : Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

- **Chemical Name** : SODIUM FORMATE
- **ACGIH** : None Listed
- **NIOSH** : None Listed
- **OSHA - Final PELs** : None Listed

OSHA Vacated PELs : SODIUM FORMATE: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

- **Eyes** : 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.
 - **Skin** : Wear appropriate gloves to prevent skin exposure.
 - **Clothing** : Wear appropriate protective clothing to minimize contact with skin.
 - **Respirators** : Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.
-

Section 9 - Physical and Chemical Properties

- **Physical State** : Solid
 - **Appearance** : White
 - **Odor** : formic acid-like - weak odor
 - **pH** : B
 - **Vapor Pressure** : Negligible.
 - **Vapor Density** : 2.34
 - **Evaporation Rate** : Negligible
 - **Viscosity** : Not Available.
 - **Boiling Point** : Not Available.
 - **Freezing/Melting Point** : 487 deg F
 - **Autoignition Temperature** : Not Available
 - **Flash Point** : Not Available
 - **Decomposition Temperature** : 487 deg F
 - **NFPA Rating** : Estimated
 - **Health** : 1
 - **Flammability** : 0
 - **Reactivity** : 0
 - **Explosion Limits, Lower** : N/A
 - **Upper** : N/A
 - **Solubility** : Slightly Soluble
 - **Specific Gravity/Density** : 1.92
 - **Molecular Formula** : CHO₂Na
 - **Molecular Weight** : 67.9956
-

Section 10 - Stability and Reactivity

- **Chemical Stability** : Stable under normal temperatures and pressures.
 - **Conditions to Avoid** : High temperatures, incompatible materials, moisture.
 - **Incompatibilities with Other Materials** : Strong oxidizing agents, strong acids.
 - **Hazardous Decomposition Products** : Carbon monoxide, carbon dioxide, sodium oxide.
 - **Hazardous Polymerization** : Has not been reported.
-

Section 11 - Toxicological Information

RTECS#:

- **CAS#** : 141-53-7: LR0350000

LD50/LC50:

- **CAS#** : 141-53-7:
- **Oral, Mouse** : LD50 = 11200 mg/kg;

Carcinogenicity:

- **CAS# 141-53-7** : Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
 - **Epidemiology** : No information available.
 - **Teratogenicity** : No information available.
 - **Reproductive Effects** : No information available.
 - **Neurotoxicity** : No information available.
 - **Mutagenicity** : Please refer to RTECS# LR0350000 for specific information.
 - **Other Studies** : None.
-

Section 12 - Ecological Information

- **Ecotoxicity** : No data available. No information available.
 - **Environmental** : No information reported.
 - **Physical** : No information available.
 - **Other** : No information available.
-

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

Section 14 - Regulatory Information

US FEDERAL

- **TSCA** : CAS# 141-53-7 is listed on the TSCA inventory.
- **Health & Safety Reporting List** : None of the chemicals are on the Health & Safety Reporting List.
- **Chemical Test Rules** : None of the chemicals in this product are under a Chemical Test Rule.
- Section 12b
- None of the chemicals are listed under TSCA Section 12b.
- TSCA Significant New Use Rule
- None of the chemicals in this material have a SNUR under TSCA.

SARA

- **Section 302 (RQ)** : None of the chemicals in this material have an RQ.
- **Section 302 (TPQ)** : None of the chemicals in this product have a TPQ.
- **Section 313** : No chemicals are reportable under Section 313.
- **Clean Air Act** : This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.
- **Clean Water Act** : None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.
- **OSHA** : None of the chemicals in this product are considered highly hazardous by OSHA.
- **STATE** : CAS# 141-53-7 is not present on state lists from CA, PA, MN, MA, FL, or NJ.
- **California No Significant Risk Level**: None of the chemicals in this product are listed.
- **European/International Regulations** : European Labeling in Accordance with EC Directives
- **Hazard Symbols** : Not available.

Safety Phrases :

- **WGK (Water Danger/Protection)** : CAS# 141-53-7: 1
- **Canada** : CAS# 141-53-7 is listed on Canada's DSL List. CAS# 141-53-7 is listed on Canada's DSL List.

This product has a WHMIS classification of Not controlled. CAS# 141-53-7 is not listed on Canada's Ingredient Disclosure List. Exposure Limits

Section 15 - Additional Information

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 event shall Fisher 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, howsoever arising, even if Fisher has been advised of the possibility of such damages.