SAFETY DATA SHEET
Sodium Formate

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

<table>
<thead>
<tr>
<th>CHEMICAL NAME:</th>
<th>Sodium Formate</th>
</tr>
</thead>
<tbody>
<tr>
<td>SYNONYMS:</td>
<td>Formic Acid, Sodium Salt (1:1)</td>
</tr>
<tr>
<td>CAS NUMBER:</td>
<td>141-53-7</td>
</tr>
<tr>
<td>MOLECULAR WEIGHT:</td>
<td>68.02</td>
</tr>
<tr>
<td>CHEMICAL FORMULA:</td>
<td>NaCHO2</td>
</tr>
<tr>
<td>JOST CODE NUMBER(S):</td>
<td>2728</td>
</tr>
</tbody>
</table>

Company name: Nexchem Ltd
Unit 1 Underwood Court
Elm Tree Avenue
Glenfield
Leicester
Leicestershire
LE3 8SG
Tel: 0116 2311130
Fax: 0116 2311124
Emergency Tel: +44 (0) 116 2877916 or +44 (0) 7714 303742 (24 Hours)
Email: sales@nexchem.co.uk

2. HAZARDS IDENTIFICATION

Ingredient   | CAS No  | Percent | Exposure Limits (TWA) |
-------------|---------|---------|------------------------|
Sodium Formate | 141-53-7 | 100% | 15 mg/m3 (Total Dust) |
                                         |       |                        | 5 mg/m3 (Respirable) |

3. COMPOSITION / INFORMATION ON INGREDIENTS

INHALATION: May cause irritation of the respiratory tract
INGESTION: May cause irritation of the gastrointestinal tract
SKIN CONTACT: May cause skin irritation
EYE CONTACT: May cause eye irritation
CHRONIC EXPOSURE: No information available

4. FIRST AID MEASURES

INHALATION: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.

[cont…]
SAFETY DATA SHEET
Sodium Formate

INGESTION: Give several glasses of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

SKIN CONTACT: Remove contaminated clothing and shoes and immediately flush skin with plenty of water for at least 15 minutes. Wash clothing before reuse. Clean shoes thoroughly before reuse. If irritation persists, seek medical attention.

EYE CONTACT: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, lifting the upper and lower eyelids. Seek immediate medical attention.

5. FIRE-FIGHTING MEASURES

HAZARDOUS COMBUSTION PRODUCTS: Oxides of sodium and carbon
FIRE: Material is not flammable
EXPLOSION: As with any organic dust, this material may form combustible dust concentrations in air during processing.
FIRE EXTINGUISHING MEDIA: Use media suitable for the surrounding fire.
SPECIAL INFORMATION: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full-face piece operated in the pressure demand or other positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

SPILL CONTROL & RECOVERY: Wear appropriate personal protective equipment as specified in Section 8. Clean up spills in a manner that does not disperse dust into the air. Pick up spill for recovery or disposal and place in a closed container.

DISPOSAL: Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

7. HANDLING AND STORAGE

HANDLING: Avoid contact with eyes. Avoid breathing dust. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use.

STORAGE: Store in accordance with local regulations. Store in original container. Keep container tightly closed and sealed until ready for use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

AIRBORNE EXPOSURE LIMITS: 15 mg/m³ (Total Dust) 5 mg/m³ (Respirable)

[cont...]
SAFETY DATA SHEET
Sodium Formate

ENGINEERING CONTROLS: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

RESPIRATORY PROTECTION: Where exposure to the dust is apparent, a NIOSH approved dust/mist respirator with the appropriate filter may be worn.

SKIN PROTECTION: Wear protective gloves and clean body covering clothing.

EYE PROTECTION: Use chemical safety glasses or goggles and/or full-face shield where dusting or splashing of solution is possible.

9. PHYSICAL AND CHEMICAL PROPERTIES

FLASH POINT: Material is not flammable
APPEARANCE: Hygroscopic white granular material
ODOUR: Odourless
SOLUBILITY: 97g/110 ml water at 20°C
MELTING POINT: 253°C
PH: Aqueous solution is neutral

10. STABILITY AND REACTIVITY

STABILITY: Stable under ordinary conditions of use and storage.
CONDITION/MATERIAL TO AVOID: Incompatibles, moisture sources of ignition.
HAZARDOUS DECOMPOSITION PRODUCTS: Decomposition products may include oxides of sodium and carbon.
Sodium Formate decomposes to sodium oxalate and hydrogen and then into sodium carbonate.
HAZARDOUS POLYMERIZATION: Will not occur
INCOMPATABILITIES: Strong oxidizers and strong acids.

11. TOXICOLOGICAL INFORMATION

LD50/LC50: Oral: 11,200 mg.kg (Rat), Inhalation (4 hour): 680 mg/m3 (Rat)
CARCINOGENICITY: Material is not listed by IARC, ACGIH, NTP or OSHA
EPIDEMIOLOGY: No information available
TERATOGENICITY: No information available
REPRODUCTIVE EFFECTS: No information available
MUTAGENICITY: No information available
NEUROTOXICITY: No information available
OTHER INFORMATION: Sodium Formate is Generally Recognized As Safe (GRAS) 21 CFR § 186.1756.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL TOXICITY: Not toxic
ENVIRONMENTAL FATE: No information available
13. DISPOSAL CONSIDERATIONS

Generators of chemical wastes must make the determination as to whether a discarded chemical is a hazardous waste as defined by 40 CFR § 261.3. Material not recycled or recovered must be discarded in accordance with local, state, and federal regulations.

14. TRANSPORT INFORMATION

DOT/IATA/IMDG: Not dangerous goods

15. REGULATORY INFORMATION

TSCA: This material is listed
CERCLA: This material does not have a RQ.
SECTION 302 EHS: This material is not listed
SECTION 311/312: Acute
SECTION 313: This material is not listed

CLEAN AIR ACT: This product does not contain any Hazardous Air Pollutants.
This product does not contain any Class 1 Ozone depletors.
This product does not contain any Class 2 Ozone depletors.

CLEAN WATER ACT: This product is not listed as a Hazardous Substance under the CWA.
This product is not listed as a Priority Pollutant under the CWA.
This product is not listed as a Toxic Pollutant under the CWA.

INTERNATIONAL REGULATIONS:
CANADA – DSL: This material is listed
CHINA (IECSC): This material is listed
JAPAN (ENCs): This material is listed
AUSTRALIA (AICS): This material is listed
KOREA (ECL): This material is listed
PHILIPPINES (PICCS): This material is listed
NEW ZEALAND (NZIoC): This material is listed
SWITZERLAND (GIFLLISTE): This material is listed

Note: The regulatory information given above only indicates the principal regulations specifically Applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

NFPA RATINGS: Health: 1 Flammability: 0 Reactivity: 0
HMIS RATINGS: Health: 1 Flammability: 0 Reactivity: 0
Legal disclaimer:

The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.