

24-Hour Emergency Telephone 908-859-2151 National Response Center 800-424-8802 Chemtrec 800-424-9300 National Response In Canada CANUTEC 613-996-6666

Outside U.S. and Canada Chemtrec 202-483-7616 MATERIAL SAFETY DATA SHEET FICHE HOJAS DE DATOS

FICHE HOJAS DE DATOS SIGNALÉTIQUE DE SEGURIDAD

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers are to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals. All non-emergency questions should be directed to Customer Service (1-800-JTBAKER) for assistance.

S3770 -02 Effective:

03/09/92

Sodium Formate, Crystal

Page: 1

Issued: 07/10/93

J.T.BAKER INC., 222 Red School Lane, Phillipsburg, NJ 08865

SECTION I - PRODUCT IDENTIFICATION

Product Name: Sodium Formate, Crystal

Common Synonyms: Formic Acid, Sodium Salt; Salachlor

Chemical Family: Organic Sodium Salts

Formula:

HC00Na 68.01

Formula Wt.: CAS No.:

141-53-7

NIOSH/RTECS No.: LR0350000 Product Use: Laborator

Laboratory Reagent

Product Codes:

3700

PRECAUTIONARY LABELING

BAKER SAF-T-DATA* System

HEALTH

SLIGHT

FLAMMABILITY ON NONE

REACTIVITY

CONTACT

Laboratory Protective Equipment





U.S. Precautionary Labeling

During use avoid contact with eyes, skin, clothing. Wash thoroughly after handling. When not in use keep in tightly closed container.

International Labeling

Avoid contact with eyes. After contact with skin, wash immediately with plenty of water. Keep container tightly closed.

SAF-T-DATA* Storage Color Code: Orange (general storage)

Continued on Page: 2



24-Hour Emergency Telephone 908-859-2151 National Response Center 800-424-8802 Chemtrec 800-424-9300

National Response In Canada CANUTEC 613-996-6666

Outside U.S. and Canada Chemtrec 202-483-7616

MATERIAL SAFETY DATA SHEE

HOJAS DE DATOS SIGNALÉTIQUE DE SEGURIDAD

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers are to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals. All non-emergency questions should be directed to Customer Service (1-800-JTBAKER) for assistance.

S3770 - 02 Effective:

03/09/92

Sodium Formate, Crystal

Page: 2

Issued: 07/10/93

SECTION II - COMPONENTS

Component

Sodium Formate

CAS No.

Weight %

OSHA/PEL

ACGIH/TLU

SECTION III - PHYSICAL DATA

Boiling Point: N/A

Vapor Pressure (mmHq): N/A

Melting Point: 253°C (487°F)

(at 760 mm Hg)

Vapor Density (air=1): N/A

Specific Gravity: 1.92

 $(H_{2}0=1)$

Evaporation Rate: N/A

Solubility(H,O): Appreciable (>10%)

% Volatiles by Volume: 0.5

(21°C)

pH: N/A

Odor Threshold (ppm): N/A

Physical State: Solid

Coefficient Water/Oil Distribution: N/A

Appearance & Odor: White crystalline powder. Odorless.

SECTION IU - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Closed Cup): N/A

Autoignition Temperature: N/A

Flammable Limits:

Upper - N/A

Lower - N/A

Fire Extinguishing Media

Use extinquishinq media appropriate for surrounding fire.

Special Fire-Fighting Procedures

Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode.



24-Hour Emergency Telephone 908-859-2151 National Response Center 800-424-8802 Chemtrec 800-424-9300 National Response In Canada CANUTEC 613-996-6666

Outside U.S. and Canada Chemtrec 202-483-7616 MATERIAL SAFETY DATA SHEET
HOJAS DE DATOS

FICHE HOJAS DE DATOS SIGNALÉTIQUE DE SEGURIDAD

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers are to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals. All non-emergency questions should be directed to Customer Service (1-800-JTBAKER) for assistance.

S3770 -02

Effective:

03/09/92

Sodium Formate, Crystal

Page: 3

Issued: 07/10/93

SECTION IV - FIRE AND EXPLOSION HAZARD DATA (CONTINUED)

Unusual Fire & Explosion Hazards

Can be an explosion hazard, especially when heated.

Toxic Gases Produced

hydrogen, carbon monoxide, carbon dioxide

Explosion Data-Sensitivity to Mechanical Impact

None identified.

Explosion Data-Sensitivity to Static Discharge

None identified.

SECTION U - HEALTH HAZARD DATA

Threshold Limit Value (TLV/TWA): Not Established

Short-Term Exposure Limit (STEL): Not Established

Permissible Exposure Limit (PEL): Not Established

Toxicity of components

Oral Mouse LD_{SN} for Sodium Formate

11.2 g/kg

Intraperitoneal Mouse $\mathrm{LD}_{5\,\mathrm{N}}$ for Sodium Formate

807 mg/kg

Carcinogenicity: NTP: No IARC: No Z List: No OSHA Reg: No

Carcinogenicity

None identified.

Reproductive Effects

None identified.

Effects of Overexposure

INHALATION:

none identified

SKIN CONTACT:

none identified

EYE CONTACT:

none identified



24-Hour Emergency Telephone 908-859-2151 National Response Center 800-424-8802 Chemtrec 800-424-9300

National Response In Canada CANUTEC 613-996-6666

Outside U.S. and Canada Chemtrec 202-483-7616 SIGNALÉTIQUE

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers are to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals. All non-emergency questions should be directed to Customer Service (1-800-JTBAKER) for assistance.

53770 - 02

03/09/92 Effective:

Sodium Formate, Crystal

Page: 4

Issued: 07/10/93

SECTION U - HEALTH HAZARD DATA (CONTINUED)

SKIN ABSORPTION: none identified

INGESTION:

none identified

CHRONIC EFFECTS: none identified

Target Organs

none identified

Medical Conditions Generally Aggravated by Exposure

none identified

Primary Routes of Entry

none indicated

Emergency and First Aid Procedures

INGESTION:

If swallowed and the person is conscious, immediately give

large amounts of water. Get medical attention.

INHALATION:

If a person breathes in large amounts, move the exposed

person to fresh air.

SKIN CONTACT: In case of contact, immediately wash skin with plenty of

soap and water for at least 15 minutes.

EYE CONTACT:

In case of eye contact, immediately flush with plenty of

water for at least 15 minutes.

SARA/TITLE III HAZARD CATEGORIES and LISTS

Reactivity: No Acute: No Chronic: No Flammability: No Pressure: No

Extremely Hazardous Substance: No

CERCLA Hazardous Substance:

No

SARA 313 Toxic Chemicals:

No

TSCA Inventoru:

Yes



area.

J.T. Baker Inc. 222 Red School Lane Phillipsburg, NJ 08865

24-Hour Emergency Telephone 908-859-2151 National Response Center 800-424-8802 Chemtrec 800-424-9300 National Response In Canada CANUTEC 613-996-6666

Outside U.S. and Canada Chemtrec 202-483-7616 MATERIAL SAFETY DATA SHEET
FICHE HOJAS DE DATOS

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers are to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals. All non-emergency questions should be directed to Customer Service (1-800-JTBAKER) for assistance.

FICHE HOJAS DE DATOS SIGNALÉTIQUE DE SEGURIDAD

Page: 5 Sodium Formate, Crystal 53770 - 02Issued: 07/10/93 Effective: 03/09/92 SECTION UI - REACTIVITY DATA Hazardous Polymerization: Will not occur Stability: Stable Conditions to Avoid: heat none identified Incompatibles: Decomposition Products: hydrogen, carbon monoxide, carbon dioxide SECTION VII - SPILL & DISPOSAL PROCEDURES Steps to be Taken in the Event of a Spill or Discharge Wear suitable protective clothing. Carefully sweep up and remove. Disposal Procedure Dispose in accordance with all applicable federal, state, and local environmental regulations. SECTION VIII - INDUSTRIAL PROTECTIVE EQUIPMENT Use adequate general or local exhaust ventilation to Ventilation: keep fume or dust levels as low as possible. Respiratory Protection: None required where adequate ventilation conditions If airborne concentration is high, use an exist. appropriate respirator or dust mask. Safety goggles, proper gloves are recommended. Eve/Skin Protection: SECTION IX - STORAGE AND HANDLING PRECAUTIONS ********************************** SAF-T-DATA* Storage Color Code: Orange (general storage) Storage Requirements Keep container tightly closed. Suitable for any general chemical storage



24-Hour Emergency Telephone 908-859-2151 National Response Center 800-424-8802 Chemtrec 800-424-9300 National Response In Canada CANUTEC 613-996-6666

Outside U.S. and Canada Chemtrec 202-483-7616 FICHE SIGNALÉTIQUE

HOJAS DE∜DATOS DE SEGURIDAD ∧

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers are to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals. All non-emergency questions should be directed to Customer Service (1-800-JTBAKER) for assistance.

S3770 -02 Effective:

03/09/92

Sodium Formate, Crystal

Page: 6

Issued: 07/10/93

SECTION X - TRANSPORTATION DATA AND ADDITIONAL INFORMATION

Domestic (D.O.T.)

Proper Shipping Name: Chemicals, n.o.s. (Non-regulated)

International (I.M.O.)

Proper Shipping Name: Chemicals, n.o.s. (Non-regulated)

Marine Pollutants: No

AIR (I.C.A.O.)

Proper Shipping Name: Chemicals, n.o.s. (Non-regulated)

U.S. Customs Harmonization Number: 29151200006

N/A = Not Applicable or Not Available

N/E = Not Established

The information in this Material Safety Data Sheet meets the requirements of the United States OCCUPATIONAL SAFETY AND HEALTH ACT and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and the Canadian WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM. This document is intended only as a guide to the appropriate precautionary handling of the material by a person trained in, or supervised by a person trained in, chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes.

Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, Baker cannot warn of all of the potential dangers of use or interaction with other chemicals or materials. Baker warrants that the chemical meets the specifications set forth on the label. BAKER DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR PURPOSE.

The user should recognize that this product can cause severe injury and even death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Baker will periodically revise this Material Safety Data Sheet.

Note: CHEMTREC, CANUTEC, and NATIONAL RESPONSE CENTER emergency telephone numbers are to be used ONLY in the event of CHEMICAL EMERGENCIES involving

Continued on Page:

0020



24-Hour Emergency Telephone 908-859-2151 National Response Center 800-424-8802 Chemtrec 800-424-9300 National Response In Canada CANUTEC 613-996-6666

Outside U.S. and Canada Chemtrec 202-483-7616 MATERIAL SAFETY DATA SHEET

FICHE SIGNALÉTIQUE HOJAS DE DATOS DE SEGURIDAD

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers are to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals. All non-emergency questions should be directed to Customer Service (1-800-JTBAKER) for assistance.

S3770 -02 Effective:

03/09/92

Sodium Formate, Crystal

Page: 7

Issued: 07/10/93

a spill, leak, fire, exposure, or accident involving chemicals. All non-emergency questions should be directed to Customer Service (1-800-JTBAKER) for assistance.

COPYRIGHT 1993 J.T.BAKER INC. * TRADEMARKS OF J.T.BAKER INC.

Approved by Quality Assurance Department.