

Number of the identification sheet: **S3770** * * * * * *Date of entry into force: 05/14/03* *
* * * * * *replaces: 11/02/01*

MSDS

Material Safety Data Sheet

From: Mallinckrodt Baker, Inc.
222 Red School Lane
Phillipsburg, NJ 08865



Mallinckrodt
CHEMICALS



24 Hour Emergency Telephone: 908-859-2151
CHEMTREC: 1-800-424-9300

National Response in Canada
CANUTEC: 613-996-6666

Outside U.S. and Canada
Chemtrec: 703-527-3887

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers 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 (1-800-582-2537) for assistance.

Soda formate

1. Identification of the Product

Synonyms: Formic acid, sodium salt

No of the CASE: 141-53-7

Molecular weight: 68

Chemical Formula: HCOONa

Codes of the Product:

J.T. Baker: 3700

Mallinckrodt: 1929

2. Composition/Informations on the Ingredients

Ingredient No of the CASE Dangerous Percentage Soda Formate 141-53-7 99 - 100% Yes

3. Identification of the Risks

Outline of the urgencies

OPINION! INGESTION OR DANGEROUS INHALATION. CAUSE IRRITATION DERMIQUE, EYEPIECE AND RESPIRATORY TRACT.

System Saf-T-dated from Baker^(MT) (Provided for your convenience)

-
Health: 1 - Slight

Inflammability: 0 - None

Reactivity: 0 - None

Contact: 1 - Slight

Protection equipment in Laboratory: GLASSES OF SAFETY; OVERALL OF LABORATORY

Code Color of Storage: Orange (general storage)

Possible effects on Health

Inhalation:

The inhalation of dust can irritate the respiratory tracts with symptoms of angina, cough, and of breathlessness.

Ingestion:

Cause an irritation of the digestive tract. The symptoms can include nauseas, vomiting and a diarrhoea.

Contact with the Skin:

Cause an irritation of the skin. The symptoms include a redness, a prurit, and pains.

Contact with the Eyes:

Cause an irritation, a redness, and pains.

Chronic Exposure:

No information discovered.

Aggravation of the Preexistent Affections:

No information discovered.

4. First aid

Inhalation:

In the event of inhalation, to place the person at the large air. In the event of stop of breathing, to practise the artificial respiration. In the event of difficulty of breathing, of managing oxygen. To consult a doctor.

Ingestion:

Cause immediately the vomiting as indicated by the medical personnel. Never give anything by the mouth to an unconscious person. To consult a doctor.

Contact with the Skin:

To rinse immediately and abundantly skin with water during at least 15 minutes. To withdraw clothing and the shoes contaminated. To obtain a medical care. To wash clothing before giving them. To carefully clean the shoes before giving them.

Contact with the Eyes:

To rinse immediately and abundantly eyes with water during 15 minutes by raising the lower and higher eyelids occasionally. To call a doctor immediately.

5. Measures to be taken in the event of Fire

Set fire to:

Do not present a fire hazard.

Explosion:

Do not present a risk of explosion.

Means of Extinction of Fire:

To use any suitable means to extinguish a surrounding fire.

Special information:

In the event of fire, to wear total protective clothing and an approved lawful autonomous respirator (NIOSH), with complete mask, functioning under pressure with the request or any form of positive pressure.

6. Measures to be taken in the event of Accidental Escape

To break down the zone of discharge or escape. To carry suitable protection equipments as it is specified in section 8. Discharges: To sweep and put out of containers for recovery or elimination. Aspiration or sweeping by humidification can be used to avoid the dispersion of dust.

7. Handling and Storage

To preserve in a hermetically closed container, stored in a fresh, dry and broken down place. To protect from the property damages. The containers of this material can be dangerous when they are empty because they contain residues of the product (dust, solids); to respect all the warnings and measurements of precautions applying to this product.

8. Control of the Exposure/Personal Protection

Limits of Aéro-gène Exposure:

None was given.

System of Ventilation:

A system of breakdown by aspiration to the source and/or a system of general ventilation per aspiration, are recommended so that the employees are exposed the least possible. A local ventilation is generally advised because it controls the emissions of contaminants to the source, by avoiding their dispersion in the general zones of work. For more details, please refer to the documentation of ACGIH, *Industrial Ventilation, A Manual of Recommended Practices* (industrial Ventilation, a handbook of practices recommended), the most recent edition.

Self-rescuer (Approval by the NIOSH):

For the conditions of use in places exposed to dust or fogs and where measurements of control of engineering are not practicable, it is advised to carry an apparatus of respiratory protection against the particles (filter NIOSH of the N95 type or better

quality). In the event of presence of particles of oil (i.e. lubricating, cutting fluids, glycerin, etc), to use a filter NIOSH of the type P or R. In the event of urgency or of exposure to nonknown levels, to use an apparatus of respiratory protection to adduction of air, complete mask, positive pressure. **WARNING:** The apparatuses of respiratory protection to filtered air do not protect the workers in defective atmospheres out of oxygen.

Protection of the Skin:

To wear protective gloves and clothing clean, covering all the body.

Protection of the Eyes:

To urgently maintain a bath ocular and installations of damping fast in the working area. To use safety goggles against the chemicals and/or a visor covering all the face, in the places where there can be effusements and splashes of the solutions.

9. Physical properties and Chemical

Appearance:

Crystalline powder or white granules déliquescentes.

Odor:

Odourless with light odor of formic acid.

Solubilité:

No information discovered.

Density:

1.92 @ 20C

pH:

No information discovered.

% Birds by Volume @ 2Ç (70F):

0.5

Not Boiling:

Breaks up.

Point Melting:

253C (487F)

Vapor tension (Air=1):

No information discovered.

Density of the Vapor (mm Hg):

No information discovered.

Rate of Evaporation (BuAc=1):

No information discovered.

10. Stability and Reactivity

Stability:

Hygroscopic. Absorb the moisture of the air immediately. The solutions are strong bases.

Products of Dangerous Decomposition:

At higher temperatures, the substance breaks up into sodium oxalate and hydrogen, and then into sodium carbonate. It can be formed carbon dioxide and carbon monoxide, in the event of heating until decomposition.

Dangerous Polymerisation:

This substance is not polymerized.

Incompatibilities:

Reacts with strong acids to form formic acid smoke.

Conditions To avoid:

No information discovered.

11. Toxicity

No information on the DL50/CL50 found relative with the normal ways of penetration and the professional exposure.

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-----\Lists on Cancer \-----
----- Cancerogenic NTP --- Known Ingredient Anticipated Category CIRC
Soda Formate (141-53-7) Not Not None
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12. Environment

Evolution in the Environment:

No information discovered.

Toxicity for the Environment:

No information discovered.

13. Elimination

What cannot be recovered or recycled should be managed in an installation of elimination and suitable and approved reject of waste. The treatment, the use or the contamination of this product can change the options of the management of waste. The regulations concerning elimination or the reject emanating of waste of the Provinces and the Communes can be different from the regulations of the federal State. The reject of the containers and their contents not used must be done in accordance with the federal, provincial and local requirements.

14. Means of Transport Concerned

Not regulated.

15. Regulation

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-----\État of Chemical Stock - Part 1 \-----
----- Ingredient TSCA EC. Japan Australia --- Soda Formate (141-
53-7) Yes Yes Yes Yes -----\État of Chemical Stock - Part 2 \-----
----- -- Canada -- Ingredient Korea DSL NDSL
Phil. --- Formate of Soda (141-53-7) Yes Yes Not Yes ---\Règlements
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National, Provincial and International - Part 1 \----- - SARA
302- -----sara 313 Ingredient RQ TPQ List Chemical Catg. --- Formate
of Soda (141-53-7) Not Not Not Not -----\Règlements National,
Provincial and International - Part 2 \----- - Rcra- - Tsc-
Ingredient RINGED 261.33 8(d) Soda Formate (141-53-7) Non Not Not
Chemical Weapons Convention: Not TSCA 12(b): Not CDTA: Not SARA
311/312: Acute: Yes Chronic: Not Fire: Not Pressure: Not
Reactivity: Not (Pure/Solid)

Australia Hazchem Codes: None allocated.

Schedule Poison: None allocated.

WHMIS:

This identification sheet was prepared in accordance with the criteria of dangers of the laws on the dangerous products and it contains all the information required by these laws.

16. Additional information

Dimensions of the NFPA: Health: **2** Inflammability: **0** Reactivity: **0**

Label of Warning:

OPINION! INGESTION OR DANGEROUS INHALATION. CAUSE IRRITATION DERMIQUE, EYEPIECE AND RESPIRATORY TRACT.

Measurements of Precaution on the Label:

To avoid the contact with the skin, the eyes and clothing.

To wash itself well after handling.

To avoid breathing dust.

To maintain the container closed.

To use with an adequate ventilation.

First aid on the Label:

In the event of contact, to immediately rinse the eyes or the skin with great quantities of water during at least 15 minutes. To remove clothing and the shoes contaminated. To wash clothing before re-using them. In the event of inhalation, to place the person at the large air. In the event of stop of breathing, to practise the artificial respiration. In the event of difficulty of breathing, of managing oxygen. In the event of ingestion, to immediately cause vomiting according to directives' of medical personnel. Never nothing to make take by the mouth with an unconscious person. In all the cases, to consult a doctor.

Use of the Product:

Reagent of Laboratory

Revised information:

Here the sections of the identification sheet which were modified since the last revision: 8.

Denial of Responsibility:

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Préparée par: Service de l'Environnement, de la Santé et de la Sécurité.
Téléphone: (314) 654-1600 (États-Unis)