

# BOON STREAM CHEM INTERNATIONAL TRADE CO., LIMITED

# MATERIAL SAFETY DATA SHEET (MSDS)

**Products: Sodium Formate** 

Date of Issue: Dec. 6 2007

STATEMENT OF HAZARDOUS NATURE

Hazardous according to criteria of Worksafe China

**COMPANY DETAILS** 

Company: BOON STREAM CHEM INTERNATIONAL TRADE CO., LIMITED

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1. Product Identification

Synonyms: Formic acid, sodium salt

CAS No.: 141-53-7

Molecular Weight: 68.01

Chemical Formula: HCOONa

Product Codes: J.T. Baker: 3700 Mallinckrodt: 1929

## 2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	
	: <del></del>		
Sodium Formate Yes	141-53-7	99 100%	

## 3. Hazards Identification

**Emergency Overview** 

WARNING! HARMFUL IF SWALLOWED OR INHALED. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT.

SAF-T-DATA<sup>(tm)</sup> Ratings (Provided here for your convenience)

Health Rating: 1 - Slight

Flammability Rating: 0 - None Reactivity Rating: 1 - Slight Contact Rating: 2 - Moderate

Lab Protective Equip: GOGGLES; LAB COAT; PROPER GLOVES

Storage Color Code: Green (General Storage)

## **Potential Health Effects**

Inhalation:

Inhalation of dust can irritate the respiratory tract with symptoms of sore throat, coughing, and shortness of breath.

## Ingestion:

Causes irritation to the gastrointestinal tract. Symptoms may include nausea, vomiting and diarrhea,

#### **Skin Contact:**

Causes irritation to skin. Symptoms include redness, itching, and pain.

## **Eye Contact:**

Causes irritation, redness, and pain.

## Chronic Exposure:

No information found.

#### Aggravation of Pre-existing Conditions:

No information found.

#### 4. First Aid Measures

## Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

#### Ingestion:

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

## **Skin Contact:**

Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

## **Eve Contact:**

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

#### 5. Fire Fighting Measures

#### Fire:

Not considered to be a fire hazard.

#### Explosion:

Not considered to be an explosion hazard.

# Fire Extinguishing Media:

Use any means suitable for extinguishing surrounding fire.

# Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

#### 6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

## 7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

## 8. Exposure Controls/Personal Protection

## Airborne Exposure Limits:

None established.

## Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

## Personal Respirators (NIOSH Approved):

For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSII type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

## Skin Protection:

Wear protective gloves and clean body-covering clothing.

#### Eye Protection:

Maintain eye wash fountain and quick-drench facilities in work area. Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible.

## 9. Physical and Chemical Properties

#### Appearance:

White, deliquescent, granules or crystalline powder.

#### Odor:

Odorless to slight formic acid odor.

## Solubility:

97 g/100 g water @ 20C (68F)

#### Density:

1.92 @ 20C

## pH:

7.0-8.5, conc: 1M at 20 C (solution)			
% Volatiles by volume @ 21C (70F):			
0.5			
Boiling Point:			
Decomposes.			
Melting Point:			
253C (487F)			
Vapor Density (Air=1):			
No information found.			
Vapor Pressure (mm Hg):			
No information found.			
Evaporation Rate (BuAc=1):			
No information found.			
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10. Stability and Reactivity			
Stability:		20	
Hygroscopic, Readily absorbs moisture from the	air. Solutions are st	rong bases.	
Hazardous Decomposition Products:			
At higher temperatures, substance decomposes	s into sodium oxa	alate and hydrogen,	then into sodium
carbonate. Carbon dioxide and carbon monoxide	may form when he	ated to decomposition	E.
Hazardous Polymerization:			
This substance does not polymerize.			
Incompatibilities:			
Reacts with strong acids to form formic acid fume	es.		
Conditions to Avoid:			
No information found.			
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11. Toxicological Information			
Oral LD50 Mouse: 11200 mg/kg.			
\Cancer			
Lists			
<ul> <li>In the section (19)</li> </ul>		Carcinogen	VINO
Ingredient	Known	Anticipated	†ARC
Category			
		255.6	
C D	No	Va	N
Sodium Formate (141 53 7)	No	Ло	None
which continues and continues			None
12. Ecological Information			None
12. Ecological Information Environmental Fate:			None
12. Ecological Information Environmental Fate: No information found.			None
12. Ecological Information Environmental Fate:			None

# 13. Disposal Considerations

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.

15. Regulatory Information  \Chemical Inventory Status - Part 1 Ingredient	\	TSCA		Japan	
ustralia 				W 2422	
Sodium Formate (141-53-7)		Yes	Yes	Yes	Ye
Chemical Inventory Status - Part 2	2\	<del></del>			-
Ingredient		Korea	DSL	nada NDSL	Phil.
Sodium Formate (141 53-7)		Yes	Yes	No	Yes
\Γederal, State & International Re		ons Pa	rt  \-		<b>2</b> 3
		ons Pa	rt 1\- 		<b>=</b> <b>1</b> ≈
\Federal, State & International Re 213 Ingredient	-SAR	ons Pa A 302	rt 1\- 	SAR/	<u> </u>
\Federal, State & International Ro 313 Ingredient Catg.	-SAR	ons Pa A 302	rt 1\- 	SAR/ SAR/ st Chem	<b>=</b> <b>1</b> ≈
\Federal, State & International Re 313 Ingredient Catg.	-SAR RQ  No	ons Pa A 302 TPQ No	rt I\- Lis  No rt 2\-	SAR/ st Chem	nical No
\Federal, State & International Res 313 Ingredient Catg.  Sodium Formate (141-53-7)	-SAR RQ  No egulation	ons Pa A 302 TPQ No	rt   \	 SAR/ st Chen	- No  SCA-
\Federal, State & International Residual Re	-SAR RQ  No egulation	ons Pa A 302 TPQ No ons Pa LA	rt   \	SARA st Chem	- No  SCA- (d)

Australian Hazchem Code: None allocated.

Poison Schedule: None allocated.

#### WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

#### 16. Other Information

NFPA Ratings: Health: 2 Flammability: 0 Reactivity: 0

## Label Hazard Warning:

WARNING! HARMFUL IF SWALLOWED OR INHALED. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT.

#### Label Precautions:

Avoid contact with eyes, skin and clothing.

Wash thoroughly after handling.

Avoid breathing dust.

Keep container closed.

Use only with adequate ventilation.

#### Label First Aid:

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. In all cases, get medical attention.

#### **Product Use:**

Laboratory Reagent.

#### **Revision Information:**

MSDS Section(s) changed since last revision of document include: 3, 9.

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