

# Material Safety Data Sheet Ammonium formate

# SECTION 1.1 – PRODUCT IDENTIFICATION

Product Name	:	Ammonium formate
Molecular Formula	:	HCO <sub>2</sub> NH <sub>4</sub>
Molecular Weight	:	63.06 g/mole
CAS No.	:	540-69-2

# SECTION: 1.2 COMPANY IDENTIFICATION

### Company Name: Indenta Chemicals (India) Pvt. Ltd.

Address: 117, The Summit Business Bay, Opp Cinemax, Off. Sir M.V. Road, Near WEH Metro Station, Andheri (E), Mumbai 400 093, India Telephone #:+91-22-26849600 Fax #:+91-22-26849060

# **SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS**

Name	CAS #	% by Weight
Ammonium formate	540-69-2	100

Toxicological Data on Ingredients: No Data Available

# **SECTION 3: HAZARD IDENTIFICATION**

3.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008
Eye irritation (Category 2), H319
3.2 Label elements
Labelling according Regulation (EC) No

Pictogram Signal word Danger Hazard statement(s) H319 Causes serious eye irritation. Precautionary statement(s)

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

# Indenta Chemicals (India) Pvt. Ltd.

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Unit 1: Plot No. 1405, GIDC Sarigam, Dist. Valsad, Gujarat – 396155 Unit 2: Building No. 73, Gala No. 7, Indian Corporation Compound, Village Gundavli, Mankoli Naka, Bhiwandi, Thane - 421302 Supplemental Hazard Statements none

# 3.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

# **SECTION 4: FIRST AID MEASURES**

### 4.1 Description of first-aid measures

### **General advice**

Consult a physician. Show this material safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

Consult a physician.

# In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section

3.2) and/or in section 11

# **4.3 Indication of any immediate medical attention and special treatment needed** No data available

# **SECTION 5: FIRE AND EXPLOSION DATA**

.1 Extinguishing media
uitable extinguishing media
lse water spray, alcohol-resistant foam, dry chemical or carbon dioxide
.2 Special hazards arising from the substance or mixture
arbon oxides, Nitrogen oxides(NOx)
.3 Advice for firefighters
Vear self-contained breathing apparatus for firefighting if necessary.
.4 Further information
lo data available

# **SECTION 6: ACCIDENTAL RELEASE MEASURES**

# 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust. For personal protection see section 8. 6.2 Environmental precautions

Do not let product enter drains.

# 6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

For disposal see section 13.

### SECTION7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 3.2.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Store in cool place. Hygroscopic.

# SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

### 8.1 Control parameters

### Ingredients with workplace control parameters

### 8.2 Exposure controls

### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands

# before breaks and at the end of workday.

# Personal protective equipment

### Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

# **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

#### **Full contact**

Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:Dermatril®

#### Splash contact

Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:Dermatril® data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.



# **Body Protection**

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### **Respiratory protection**

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator.For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). **Control of environmental exposure** 

Do not let product enter drains.

# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

### 9.1 Information on basic physical and chemical properties

a) Appearance b) Odor c) Odor Threshold d) pH e) Melting point/freezing point f) Initial boiling point and boiling range g) Flash point h) Evaporation rate i) Flammability (solid,gas) j) Upper/lower flammability or explosive limits k) Vapor pressure I) Vapor density m) Relative density

n) Water solubility

n-octanol/water

q) Decomposition temperature

s) Explosive properties

t) Oxidizing properties

9.2 Other safety information

p) Autoignition temperature

r) Viscosity

o) Partition coefficient:

Form: crystalline Color: colorless No data available No data available 5,5 - 7,5 at 63,1 g/l at 25 °C Melting point/range: 119 - 121 °C - lit. 180 °C No data available 1,26 g/cm3 at 25 °C 63,1 g/l at 20 °C - completely soluble No data available No data available

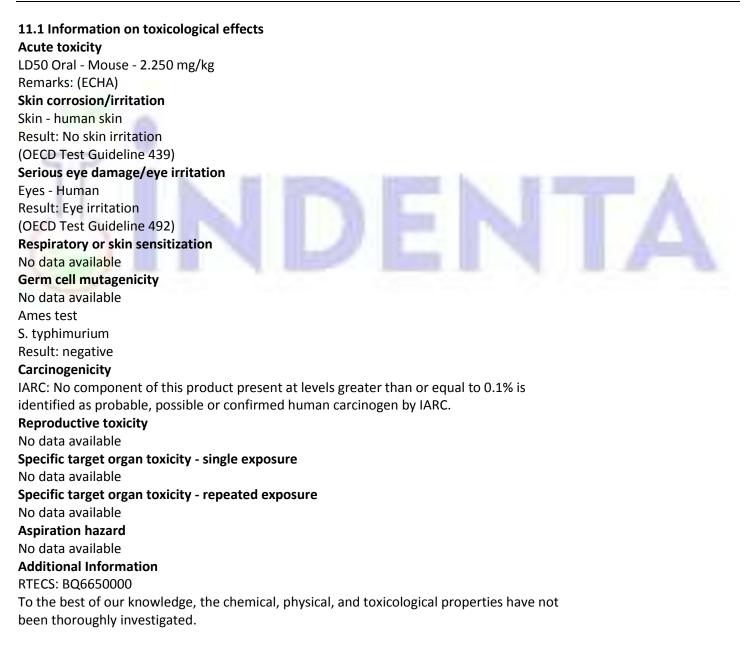
# **SECTION 10: STABILITY AND REACTIVITY**

**10.1 Reactivity** No data available

No data available

10.2 Chemical stability
Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions
No data available
10.4 Conditions to avoid
Exposure to moisture
10.5 Incompatible materials
Strong oxidizing agents, Strong acids
10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen
Oxides(NOx)
Other decomposition products - No data available
In the event of fire: see section 5

# SECTION 11: TOXICOLOGICAL INFORMATION



# 12.1 Toxicity

No data available	
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - 365 mg/l – 48 h (OECD Test Guideline 202)
Toxicity to algae	static test EC50 - Pseudokirchneriella subcapitata - 1.240 mg/l - 72 h (OECD Test Guideline 201)

### 12.2 Persistence and degradability

Biodegradability

Result: - Readily biodegradable. (OECD Test Guideline 301B)

# 12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

### **12.5 Results of PBT and vPvB assessment**

aerobic

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Other adverse effects

No data available

# **SECTION 13: DISPOSAL CONSIDERATION**

# 13.1 Waste treatment methods

#### Product

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company. Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

# Contaminated packaging

Dispose of as unused product.

# **SECTION 14: TRANSPORT INFORMATION**

14.1 UN number						
ADR/RID: -	IMDG: -		IATA: -			
14.2 UN proper shipping name						
ADR/RID: Not dangerous goods						
IMDG: Not dangerous goods						
IATA: Not dangerous goods						
14.3 Transport hazard class(es)						
ADR/RID: -	IMDG: -		IATA: -			
14.4 Packaging group						
ADR/RID: -	IMDG: -		IATA: -			
14.5 Environmental hazards						
ADR/RID: no	IMDG Mari	ne pollutant: no	IATA: no			



# SECTION 15: OTHER REGULATORY INFORMATION

# 15.1 Safety, health and environmental regulations/legislation specific for the

### substance or mixture

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

### **15.2 Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out.

# **SECTION 16: ADDITIONAL INFORMATION**

This information is provided for documentation purposes only.

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