

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

Catalogue No : A 14225

Product Name : Ammonium formate

Manufacture / Supplier Identification Company : **Nice Chemicals (P) Ltd.**,  
PB No: 2217, Manimala Road, Edappally,  
Kochi - 682 024, Kerala, India.

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**2 COMPOSITION / INFORMATION ON INGREDIENTS**

Synonyms : (±)-2-Aminosuccinic acid

CAS - No : 540 - 69 - 2

Molar Mass : .....

Molecular Weight : 63.06 g/mol

Molecular Formula : CH<sub>5</sub>NO<sub>2</sub>

EC - INDEX No : .....

EC - No : 208 - 753 - 9

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**3 HAZARDS IDENTIFICATION****Classification of the substance or mixture**

**Classification according to Regulation (EC) No** : Skin irritation (Category 2), H315  
Eye irritation (Category 2), H319  
Specific target organ toxicity - single exposure  
(Category 3), H335

For the full text of the H-Statements mentioned in  
this Section, see Section 16.

Classification according to EU Directives 67/548/EEC or : Xi Irritant R36/37/38  
For the full text of the R-phrases mentioned in this  
Section, see Section 16.

**Label Elements**

Labelling according Regulation (EC) No 1272/2008

Pictogram



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<b>Catalogue No</b>	: A 14225
<b>Product Name</b>	: Ammonium formate

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Signal word	: Warning
<b>Hazard statement(s)</b>	
H315	: Causes skin irritation.
H319	: Causes serious eye irritation.
H335	: May cause respiratory irritation.
<b>Precautionary statement(s)</b>	
P261	: Avoid breathing dust.
P305 + P351 + P338	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Other Hazards	: none

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#### 4 FIRST AID MEASURES

General Advice	: Consult a physician. Show this safety data sheet to the doctor in attendance.
After Inhalation	: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
After skin contact	: Wash off with soap and plenty of water. Consult a physician.
After eye contact	: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
After swallowing	: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Most Important symptoms and effects, both acute and delayed	: The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
Indication of any immediate medical attention and special treatment needed	: no data available

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#### 5 FIRE - FIGHTING MEASURES

Suitable extinguishing media	: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards arising from the substance or mixture	: Carbon oxides, nitrogen oxides (NOx)

Catalogue No : A 14225  
Product Name : Ammonium formate

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Advice for firefighters : Wear self contained breathing apparatus for fire fighting if necessary

Further Information : No data available

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## 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

Environmental-protection : Do not let product enter drains

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.

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## 7 HANDLING AND STORAGE

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. Normal measures for preventive fire protection. For precautions see section 2.2.

Conditions for safe storage, including any incompatibilities : Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Specific end users : A part from the uses mentioned in section 1.2 no other specific uses are stipulated

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## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameter : Components with workplace control parameters

### 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.

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Catalogue No : A 14225  
Product Name : Ammonium formate

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**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 EU Directive 89/686/EEC and the standard EN 374 derived from it.

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 : No data available

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**9 PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : **Form** : Crystalline  
**Colour** : Colourless

Odour : No data available

Odour Threshold : No data available

pH : 5,5 - 7,5 at 63,1 g/l at 25 °C

Melting Point/Freezing point : Melting point/range: 119 - 121 °C

Initial Boiling point and boiling range : No data available

Flash Point : No data available

Evaporation rate : No data available

<b>Catalogue No</b>	: A 14225
<b>Product Name</b>	: Ammonium formate
Flammability (solid, gas)	: No data available
Upper/lower flammability or explosive limits	: No data available
Vapour Pressure	: No data available
Vapour Density	: No data available
Relative density	: 1,26 g/mL at 25 °C
Water solubility	: 63,1 g/l at 20 °C - completely soluble
Partition coefficient: noctanol/water	: No data available
Autoignition temperature	: No data available
Viscosity	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Other Safety information	: No data available

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**10 STABILITY AND REACTIVITY**

Reactivity	: No data available
Chemical stability	: Stable under recommended storage conditions.
Conditions to be avoided	: Exposure to moisture.
Substance to be avoided	: No data available
Hazardous decomposition products	: Other decomposition products - no data available
Possibility of hazardous reactions	: No data available
Incompatible materials	: Strong oxidizing agents, Strong acids

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**11 TOXICOLOGICAL INFORMATION**

Acute Toxicity	: LD50 Oral - mouse - 2.250 mg/kg Inhalation: no data available Dermal: no data available
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**Further toxicological Information**

Carcinogenicity	: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable. Possible or confirmed human carcinogen by IARC.
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<b>Catalogue No</b>	:	<b>A 14225</b>
<b>Product Name</b>	:	<b>Ammonium formate</b>

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Skin corrosion/irritation	:	Irritating to skin. The preceding data, or interpretation of data, was determined using Quantitative Structure Activity Relationship (QSAR) modeling.
Eye Irritation test ( rabbit)	:	Moderate eye irritation The preceding data, or interpretation of data, was determined using Quantitative Structure Activity Relationship (QSAR) modeling.
Respiratory or skin Sensitization	:	No data available
Germ cell mutagenicity	:	No data available
After Inhalation	:	No data available
After Skin contact	:	No data available
After swallowing	:	No data available
After swallowing of large amounts	:	No data available
Further data	:	No data available
Reproductive toxicity	:	No data available
Specific target organ toxicity-single exposure	:	Inhalation - May cause respiratory irritation. The preceding data, or interpretation of data, was determined using Quantitative Structure Activity Relationship (QSAR) modeling.
Specific target organ toxicity-repeated exposure	:	No data available
Signs and symptoms of Exposure	:	No data available
Additional Information	:	RTECS: BQ6650000 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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## 12 ECOLOGICAL INFORMATION

Toxicity	:	No data available
Persistence and degradability	:	No data available
Bioaccumulative potential	:	No data available
Mobility in soil	:	No data available
Results of PBT and vPvB assessment	:	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

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Catalogue No : A 14225  
Product Name : Ammonium formate

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Other adverse effects : No data available

### 13 DISPOSAL METHOD

#### Waste treatment methods

Product : Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging : Dispose of as unused product.

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### 14 TRANSPORT INFORMATION

UN number : ADR/RID: - IMDG: -  
IATA: -

UN Proper shipping name : ADR/RID: Not dangerous goods  
IMDG: Not dangerous goods  
IATA: Not dangerous goods

Transport hazard class(es) : ADR/RID: - IMDG: -  
IATA: -

Packaging group : ADR/RID: - IMDG:  
- IATA: -

Environmental group : ADR/RID: - no IMDGMarine  
pollutant: no IATA: -no

Special precaution for user : No data available

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### 15 REGULATORY INFORMATION

This safety datasheet compiles with the requirements of Regulation (EC) No. 1907/2006

Safety, health and environmental regulations/legislation specific for the substance or mixture : No data available

Chemical safety assessment : For this product a chemical safety assessment was not carried out

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### 16 OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Eye Irrit. : Eye irritation

**Catalogue No** : A 14225  
**Product Name** : Ammonium formate

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H315 : Causes skin irritation.  
H319 : Causes serious eye irritation.  
H335 : May cause respiratory irritation.  
Skin Irrit. : Skin irritation  
STOT SE : Specific target organ toxicity - single exposure

Full text of R-phrases referred to under sections 2 and 3

Xi : Irritant  
R36/37/38 : Irritating to eyes, respiratory system and skin.

The information contained here in is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precaution. It does not represent a guarentee of the properties of the product.