

## SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006  
In compliance with EC regulation No. 1272/2008 and its amendments.

Version: 1  
Revision Date: 22/05/2015

### CHOLINE CHLORIDE 60% CORN COB

Replace the 0 version of 01/01/2000

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1 Product identifier

Trade name : Choline chloride 60% corn cob

##### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Feed Additive for animal nutrition to be used in feed.

##### 1.3 Details of the supplier of the Safety Data Sheet

SHANDONG AOCTER CHEMICAL CO.,LTD.  
NO.5,NORTH GUANDAO STREET GAOTANG SHANDONG CHINA

Tel. +86 635 3962378 3961201 3961076 | Tel. +86 635 3961209

##### 1.4 Emergency telephone number

CareChem (24h/24) : +44(0) 1235 239 670

#### SECTION 2: Hazards identification

##### 2.1 Classification of the substance or mixture

###### Classification according to Regulation (EC) No 1272/2008 [CLP]

The substance does not meet the CLP classification criteria. The substance is not classified as dangerous under normal conditions of use.

##### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]

##### 2.3 Other hazards

None known.

#### SECTION 3: Composition/information on ingredients

##### 3.1 Substances

No substance meets the criteria set out in Annex II Part A of the REACH Regulations EC 1907/2006.

### 3.2 Mixtures

#### Composition :

Identification	(CE) 1272/2008	%
CAS :67-48-1 EC :200-655-4 Choline chloride		50 < x % < 100

### SECTION 4: First aid measures

Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.

#### 4.1 Description of first aid measures

##### following inhalation

Move to fresh air.  
Keep patient warm and at rest.  
Keep respiratory tract clear.  
If unconscious place in recovery position and seek medical advice.  
Call a physician or poison control centre immediately.

##### following eye contact

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
Continue rinsing eyes during transport to hospital.  
Small amounts splashed into eyes can cause irreversible tissue damage and blindness.

##### following skin contact

Take off contaminated clothing and shoes immediately.  
Wash off with soap and plenty of water.  
Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.  
Take victim immediately to hospital.

##### following ingestion

Clean mouth with water and drink afterwards plenty of water.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
Do NOT induce vomiting.  
Take victim immediately to hospital.

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

None known.

#### 4.3 Indication of any immediate medical attention and special treatment needed

None known.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Extinguishing Suitable: Water spray, powder, carbon dioxide (CO2).

#### 5.2 Special hazards arising from the substance or mixture

Do not allow run-off from fire fighting to enter drains or water courses.

#### 5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
Consider dust explosion hazard.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas.  
Use personal protective equipment.  
Ensure adequate ventilation.  
Avoid dust formation.  
Avoid breathing dust.

**First aid workers will be equipped with suitable personal protective equipment.**

### 6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

### 6.3 Methods and material for containment and cleaning up

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

### 6.4 Reference to other sections

For personal protection see section 8.  
For disposal considerations see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

ADVICE ON SAFE HANDLING:  
Avoid formation of respirable particles.  
Avoid exceeding of the given occupational exposure limits (see section 8).  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Dispose of rinse water in accordance with local and national regulations.  
Do not breathe vapours/dust.  
Smoking, eating and drinking should be prohibited in the application area.

ADVICE ON PROTECTION AGAINST FIRE AND EXPLOSION:

Avoid dust formation.  
Provide appropriate exhaust ventilation at places where dust is formed.  
Take precautionary measures against static discharges.

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

Keep container tightly closed and dry.

### Packaging materials

Always keep in packaging made of an identical material to the original.

### 7.3 Specific end use(s)

No data available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

## Occupational Exposure limit values

### 8.2 Exposure controls

#### Individual protection measures, such as personal protective equipment



#### Eye/face protection

Safety glasses with side-shields

Wear face-shield and protective suit for abnormal processing problems.

#### Hand protection

Glove material: Neoprene

Glove material: Nitrile rubber

Consider the hazard characteristics of this product and any special workplace conditions when selecting the appropriate type of protective gloves.

#### Skin protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

#### Respiratory protection

In the case of dust or aerosol formation use respirator with an approved filter.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Informations générales

- Appearance : non-dusty powder, free flowing powder

- Colour: not determined

- Odour: odourless

Odour Threshold: no information available

#### Informations importantes relatives à la santé, à la sécurité et à l'environnement

- pH: no data available

- Melting point: not determined

- Boiling point/ boiling range: not determined

- Flash point: not applicable

- Density: not determined

- Water solubility: not determined.

### 9.2 Other information

No data available.

## SECTION 10: Stability and Reactivity

### 10.1 Reactivity

No hazards to be specially mentioned.

### 10.2 Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

### 10.3 Possibility of hazardous reactions

None known.

**10.4 Conditions to avoid**

Heat.

**10.5 Incompatible materials**

None know.

**10.6 Hazardous decomposition products**

No data available.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects**

Prolonged skin contact may cause skin irritation.

Dust contact with the eyes can lead to mechanical irritation.

May cause sensitisation by inhalation.

May cause sensitisation by skin contact.

**FOR SUBSTANCES**

None know.

**FOR MIXTURES**

None know.

**SECTION 12: Ecological information****12.1 Toxicity****Mixtures**

No data is available on the product itself.

**12.2 Persistence and degradability**

No data is available on the product itself.

**12.3 Bioaccumulative potential**

No data is available on the product itself.

**12.4 Mobility in soil**

No data is available on the product itself.

**12.5 Results of PBT and vPvB assessment**

No data is available on the product itself.

**12.6 Other adverse effects**

No data is available on the product itself.

**SECTION 13: Disposal considerations**

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

**13.1 Waste treatment methods**

Do not pour into drains or waterways.

**WASTE:**

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

**SOILED PACKAGING :**

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

**SECTION 14 Transport Information**

**14.1 UN number**

Not concerned

**14.2 UN proper shipping name**

Not concerned

**14.3 Transport hazard class(es)**

**14.4 Packing group**

Not concerned

**14.5 Environmental hazards**

**14.6 Special precautions for user**

ADR RID	Transport hazard class	Code	Pack Gr.	Label	Provis.	LQ	EQ	Packaging		
								Packing instructions	Special packing provisions	Mixed packing provision

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable.

**SECTION 15: Regulatory information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Not Applicable

**15.2 Chemical Safety Assessment**

No data available.

**SECTION 16: Other information**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**16.1 Libellés des phrases H, EUH mentionnées à la section 3**

**16.2 Abréviations**

CMR	Cancérogène, Mutagène ou Reprotoxique
ADR	Accord Européen relatif au transport international de marchandises Dangereuses pour la route
IMDG	International Maritime Dangerous Goods
IATA	International Air Transport Association
OACI	Organisation de l'Aviation Civile Internationale
RID	Regulations concerning the International carriage of Dangerous Goods by rail
WGK	Wassergefährdungsklasse