# MATERIAL SAFETY DATA SHEET

# SECTION 1: Identification

1.1 GHS Product identifies	r
Product name	Isopropyl acetoacetate
1.20 ther means of identi	fication
Product number	_
Other names	Butanoic acid, 3-oxo-, 1-methylethyl ester; propan-2-yl 3-oxobutanoate
1.3 Recommended use of the	e chemical and restrictions on use
Identified uses	Industrial and scientific research use.
Uses advised against	no data available
1.4 Supplier's details	
Company:	Shenyang Yadah Synthetic Veterinary Medicine Co., Ltd.
Address:	Pudong Development Zone, Liaozhong District, Shenyang, Liaoning, China
1.5 Emergency phone number	r
Emergency phone number	86-024-87861105
Service hours	Monday to Friday, 9am-5pm (Standard time zone: UTC/GMT +8 hours).

# SECTION 2: Hazard identification

### 2.1Classification of the substance or mixture

Eye irritation, Category 2

### 2.2GHS label elements, including precautionary statements

Pictogram(s)



Signal word	Warning
Hazard statement(s)	H319 Causes serious eye irritation
Precautionary statement(s)	
Prevention	P264 Wash thoroughly after handling.
	P280 Wear protective gloves/protective clothing/eye protection/face
	protection/hearing protection/
Response	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing.
Storage	none
Disposal	none

### 2.30ther hazards which do not result in classification

no data available

### SECTION 3: Composition/information on ingredients

#### 3.1Substances

Chemical name	Common names and synonyms	CAS number	EC number	Concentration
Isopropyl acetoacetate	Isopropyl acetoacetate	542-08-5	208-798-4	100%

### SECTION 4: First-aid measures

#### 4.1Description of necessary first-aid measures

#### If inhaled

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

#### Following skin contact

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

#### Following eye contact

Rinse with pure water for at least 15 minutes. Consult a doctor.

#### Following ingestion

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.

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

no data available

4.3Indication of immediate medical attention and special treatment needed, if necessary

no data available

## SECTION 5: Fire-fighting measures

### 5.1Suitable extinguishing media

Use dry chemical, carbon dioxide or alcohol-resistant foam.

#### 5.2Specific hazards arising from the chemical

no data available

### 5.3Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

### SECTION 6: Accidental release measures

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

Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

#### 6.2Environmental precautions

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

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

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

### SECTION 7: Handling and storage

#### 7.1Precautions for safe handling

Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

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

Store the container tightly closed in a dry, cool and well-ventilated place. Store apart from foodstuff containers or incompatible materials.

### SECTION 8: Exposure controls/personal protection

#### 8.1Control parameters

Occupational Exposure limit values

no data available

#### Biological limit values

no data available

#### 8. 2Appropriate engineering controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.

#### 8.3Individual protection measures, such as personal protective equipment (PPE)

#### Eye/face protection

Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US).

#### Skin protection

Wear fire/flame resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. 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.

#### Respiratory protection

If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator.

#### Thermal hazards

no data available

# SECTION 9: Physical and chemical properties and safety characteristics

Physical state	colorless, transparent liquid
Colour	no data available
Odour	no data available
Melting point/freezing point	122° C(dec.)(lit.)
Boiling point or initial boiling	187° C(lit.)
point and boiling range	
Flammability	no data available

Lower and upper explosion limit/flammability limit	no data available
Flash point	71° C(lit.)
Auto-ignition temperature	no data available
Decomposition temperature	no data available
рН	no data available
Kinematic viscosity	no data available
Solubility	no data available
Partition coefficient	no data available
n-octanol/water	
Vapour pressure	no data available
Density and/or relative density	0.989
Relative vapour density	no data available
Particle characteristics	no data available

# SECTION 10: Stability and reactivity

### 10.1Reactivity

no data available

### 10.2Chemical stability

no data available

### 10.3Possibility of hazardous reactions

no data available

### 10.4Conditions to avoid

no data available

### 10.5Incompatible materials

no data available

#### 10.6Hazardous decomposition products

no data available

# SECTION 11: Toxicological information

#### Acute toxicity

- Oral: no data available
- Inhalation: no data available
- Dermal: no data available

#### Skin corrosion/irritation

no data available

### Serious eye damage/irritation

no data available

Respiratory or skin sensitization

no data available

#### Germ cell mutagenicity

no data available

Carcinogenicity

no data available

#### Reproductive toxicity

no data available

#### STOT-single exposure

no data available

#### STOT-repeated exposure

no data available

#### Aspiration hazard

no data available

### SECTION 12: Ecological information

#### 12.1Toxicity

- Toxicity to fish: no data available
- Toxicity to daphnia and other aquatic invertebrates: no data available
- Toxicity to algae: no data available
- Toxicity to microorganisms: no data available

#### 12. 2Persistence and degradability

no data available

#### 12.3Bioaccumulative potential

no data available

### 12.4Mobility in soil

no data available

### 12.50ther adverse effects

no data available

# SECTION 13: Disposal considerations

### 13.1Disposal methods

#### Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

#### Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

### SECTION 14: Transport information

### 14.1UN Number

ADR/RID: Not dangerous goods. (For reference only, please check.)	IMDG: Not dangerous goods. (For reference only, please check.)	IATA: Not dangerous goods. (For reference only, please check.)
14.2UN Proper Shipping Name		
ADR/RID: Not dangerous goods. (For reference only, please check.)	IMDG: Not dangerous goods. (For reference only, please check.)	IATA: Not dangerous goods. (For reference only, please check.)
14.3Transport hazard class(e	3)	
ADR/RID: Not dangerous goods. (For reference only, please check.)	IMDG: Not dangerous goods. (For reference only, please check.)	IATA: Not dangerous goods. (For reference only, please check.)
14.4Packing group, if applica	able	
ADR/RID: Not dangerous goods. (For reference only, please check.)	IMDG: Not dangerous goods. (For reference only, please check.)	IATA: Not dangerous goods. (For reference only, please check.)
14.5Environmental hazards		
ADR/RID: No	IMDG: No	IATA: No
14.6Special precautions for a	iser	

no data available

### 14.7Transport in bulk according to IMO instruments

no data available

# SECTION 15: Regulatory information

### 15.1Safety, health and environmental regulations specific for the product in question

Chemical name	Common names and synonyms	CAS number	EC number
Isopropyl acetoacetate	Isopropyl acetoacetate	542-08-5	208-798-4
European Inventory of Existing Commercial Chemical Substances (EINECS)			Listed.
EC Inventory			Listed.
United States Toxic Substances Control	Act (TSCA) Inventory		Listed.
China Catalog of Hazardous chemicals 2	015		Not Listed.
New Zealand Inventory of Chemicals (NZ	CloC)		Not Listed.
Philippines Inventory of Chemicals and	Chemical Substances (PICCS)		Listed.
Vietnam National Chemical Inventory			Not Listed.
Chinese Chemical Inventory of Existing	Chemical Substances (China IECSC)		Listed.
Korea Existing Chemicals List (KECL)			Listed.

# SECTION 16: Other information

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produce formulations containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.