

# SAFETY DATA SHEET

## Isobutyric Acid RTC-IA

Runtai Chemical(Taixing) Co.,Ltd.

- According to GHS (Seventh Revised Edition)

# SDS

### Section 1 Product and Company Identification

#### > Product Identifier

Product Name Isobutyric Acid RTC-IA  
Synonyms -  
CAS No. 79-31-2  
EC No. 201-195-7  
Molecular Formula  $C_4H_8O_2$

#### > Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Relevant Identified Uses Please consult manufacturer.  
Uses Advised Against Please consult manufacturer.

#### > Details of the Supplier of the Safety Data Sheet

Applicant Name Runtai Chemical(Taixing) Co.,Ltd.  
Application Address No.17 West Wenhua Road, Taixing Economic Development Zone, Jiangsu Province, China  
Applicant Post Code 225400  
Applicant Telephone +86-523-82580016  
Applicant Fax —  
Applicant E-mail —  
Supplier Name Runtai Chemical(Taixing) Co.,Ltd.  
Supplier Address No.17 West Wenhua Road, Taixing Economic Development Zone, Jiangsu Province, China  
Supplier Post Code 225400  
Supplier Telephone +86-523-82580016  
Supplier Fax —  
Supplier E-mail —

#### > Emergency Phone Number

Emergency Phone Number +86-523-80575506

### Section 2 Hazards Identification

Hazard class and label elements of the product according to GHS (the seventh revised edition):

#### > GHS Hazard Class

Flammable Liquids Category 3

Acute Toxicity – Oral	Category 4
Acute Toxicity – Dermal	Category 3
Skin Corrosion/Irritation	Category 1
Eye Damage/Irritation	Category 1

### > GHS Label Elements

Pictogram



Signal Word

Danger

### > Hazard Statements

H226	Flammable liquid and vapour
H302	Harmful if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage

### > Precautionary Statements

#### Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof [electrical/ventilating/lighting] equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash contact area thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

#### Response

P312	Call a POISON CENTER/doctor, if you feel unwell.
P321	Specific treatment (see first aid measures on this label).
P330	Rinse mouth.
P363	Wash contaminated clothing before reuse.
P301+P312	IF SWALLOWED: Call a POISON CENTER/ doctor, if you feel unwell.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P361+P364	Take off immediately all contaminated clothing and wash it before reuse.
P370+P378	In case of fire: Use Dry chemical, carbon dioxide or alcohol-resistant foam to extinguish.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

<b>Storage</b>	
P405	Store locked up.
P403+P235	Store in a well-ventilated place. Keep cool.
<b>Disposal</b>	
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

### Section 3 Composition/Information on Ingredients

Component	Concentration (weight percent, %)	CAS No.	EC No.
Isobutyric acid	99.5	79-31-2	201-195-7

### Section 4 First Aid Measures

#### > Description of First Aid Measures

<b>General Advice</b>	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
<b>Skin Contact</b>	Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
<b>Ingestion</b>	Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
<b>Inhalation</b>	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.
<b>Protecting of First-aiders</b>	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

#### > Most Important Symptoms and Effects, both Acute and Delayed

- 1 Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

#### > Indication of Any Immediate Medical Attention and Special Treatment Needed

- 1 Treat symptomatically.
- 2 Symptoms may be delayed.

### Section 5 Fire Fighting Measures

#### > Extinguishing Media

<b>Suitable Extinguishing Media</b>	Dry chemical, carbon dioxide or alcohol-resistant foam.
<b>Unsuitable Extinguishing Media</b>	Do not use a solid water stream as it may scatter or spread fire.

#### > Specific Hazards Arising from the Substance or Mixture

- 1 Will form explosive mixtures with air.
- 2 Fire exposed containers may vent contents through pressure relief valves thereby increasing fire intensity and/ or vapour concentration.
- 3 Vapours may travel to source of ignition and flash back.
- 4 Liquid and vapour are flammable.



- 5 Fire may produce irritating, poisonous or corrosive gases.
- 6 Containers may explode when heated.
- 7 Fire exposed containers may vent contents through pressure relief valves.
- 8 May expansion or decompose explosively when heated or involved in fire.

#### ► Advice for Firefighters

- 1 As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
- 2 Fight fire from a safe distance, with adequate cover.
- 3 Prevent fire extinguishing water from contaminating surface water or the ground water system.

## Section 6 Accidental Release Measure

#### ► Personal Precautions, Protective Equipment and Emergency Procedures

- 1 Avoid breathing vapors and contacting with skin and eye.
- 2 Beware of vapours accumulating to form explosive concentrations.
- 3 Vapours can accumulate in low areas.
- 4 Emergency personnel wear positive pressure self-contained breathing apparatus. Wear protective and anti-static clothing. Wear chemical impermeable gloves.
- 5 Ensure adequate ventilation. Remove all sources of ignition.
- 6 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
- 7 Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.

#### ► Environmental Precautions

- 1 Prevent further leakage or spillage if safe to do so.
- 2 Discharge into the environment must be avoided.

#### ► Methods and Materials for Containment and Cleaning Up

- 1 Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
- 2 Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
- 3 Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

## Section 7 Handling and Storage

#### ► Precautions for Handling

- 1 Avoid inhalation of vapors.
- 2 Use only non-sparking tools.
- 3 To prevent fire caused by electrostatic discharge steam, equipment on all metal parts should be grounded.
- 4 Use explosion proof equipment.
- 5 Handling is performed in a well ventilated place.
- 6 Wear suitable protective equipment.
- 7 Avoid contact with skin and eyes.
- 8 Keep away from heat/sparks/open flames/ hot surfaces.
- 9 Take precautionary measures against static discharges.

**> Precautions for Storage**

- 1 Keep containers tightly closed.
- 2 Keep containers in a dry, cool and well-ventilated place.
- 3 Keep away from heat/sparks/open flames/ hot surfaces.
- 4 Store away from incompatible materials and foodstuff containers.

**Section 8 Exposure Controls/Personal Protection****> Control Parameters****Occupational Exposure Limit Values**

No information available

**Biological Limit Values**

No information available

**Monitoring Methods**

- 1 EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents
- 2 GBZ/T 160 Determination of toxic substances in workplace air(Series effective standard)and GBZ/T 300 Determination of toxic substances in workplace air(Series standard).

**> Engineering Controls**

- 1 Ensure adequate ventilation, especially in confined areas.
- 2 Ensure that eyewash stations and safety showers are close to the workstation location.
- 3 Use explosion-proof electrical/ventilating/lighting/equipment.
- 4 Set up emergency exit and necessary risk-elimination area.

**> Personal Protection Equipment**

<b>Eye Protection</b>	Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US).
<b>Hand Protection</b>	Wear protective gloves (such as butyl rubber) , passing the tests according to EN 374(EU),US F739 or AS/NZS 2161.1 standard.
<b>Respiratory protection</b>	If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.
<b>Skin and Body Protection</b>	Wear fire/flame resistant/retardant clothing and antistatic boots.

**Section 9 Physical and Chemical Properties**

<b>Appearance:</b> Colorless transparent oily liquid	<b>Odor:</b> No information available
<b>Odor Threshold:</b> No information available	<b>pH:</b> No information available
<b>Melting Point/Freezing Point (°C):</b> -47	<b>Initial Boiling Point and Boiling Range (°C):</b> 152~155
<b>Flash Point (°C)( Closed Cup):</b> 56	<b>Evaporation Rate:</b> No information available
<b>Flammability:</b> Not applicable	<b>Upper/lower explosive limits[%(v/v)]:</b> Upper limit: 9; Lower limit: 2
<b>Vapor Pressure (KPa):</b> 0.13	<b>Relative Vapour Density(Air = 1):</b> 3.0
<b>Relative Density(Water=1):</b> 0.95	<b>Solubility:</b> Miscible with water
<b>n-Octanol/Water Partition Coefficient:</b> 0.88	<b>Auto-Ignition Temperature(°C):</b> 481
<b>Decomposition Temperature (°C):</b> No information available	<b>Kinematic Viscosity (mm<sup>2</sup>/s):</b> No information available
<b>Particle characteristics:</b> Not applicable	



## Section 10 Stability and Reactivity

<b>Reactivity</b>	Contact with incompatible substances can cause decomposition or other chemical reactions.
<b>Chemical Stability</b>	Stable under proper operation and storage conditions.
<b>Possibility of Hazardous Reactions</b>	No information available
<b>Conditions to Avoid</b>	Incompatible materials, heat, flame and spark.
<b>Incompatible Materials</b>	No information available
<b>Hazardous Decomposition products</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11 Toxicological Information

### > Acute Toxicity

No information available

### > Skin Corrosion/Irritation

Causes severe skin burns and eye damage(Category 1)(Isobutyric acid)

### > Serious Eye Damage/Irritation

Causes serious eye damage(Category 1)(Isobutyric acid)

### > Skin Sensitization

No information available

### > Respiratory Sensitization

No information available

### > Germ Cell Mutagenicity

No information available

### > Carcinogenicity

ID	CAS No.	Component	IARC	NTP
1	79-31-2	Isobutyric acid	Not Listed	Not Listed

### > Reproductive Toxicity

No information available

### > Reproductive Toxicity (Additional)

No information available

### > STOT-Single Exposure

No information available

> **STOT-Repeated Exposure**

No information available

> **Aspiration Hazard**

No information available

**Section 12 Ecological Information**> **Acute Aquatic Toxicity**

No information available

> **Chronic Aquatic Toxicity**

No information available

> **Others****Persistence and Degradability** No information available**Bioaccumulative Potential** No information available**Mobility in Soil** No information available**Results of PBT and vPvB Assessment** Isobutyric acid does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.**Section 13 Disposal Considerations****Waste Chemicals**

Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.

**Contaminated Packaging Disposal Recommendations**

Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible. Refer to section 13.1 and 13.2.

**Section 14 Transport Information****Transporting Label****Marine pollutant** None**UN Number** 2529**UN Proper Shipping Name** ISOBUTYRIC ACID**Transport Hazard Class** 3**Transport Subsidiary Hazard Class** 8**Packing Group** III

## &gt; International Chemical Inventory

## Section 15 Regulatory Information

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS
Isobutyric acid	√	√	√	√	√	√	√	√	√

[EINECS] European Inventory of Existing Commercial Chemical Substances.

[TSCA] United States Toxic Substances Control Act Inventory.

[DSL] Canadian Domestic Substances List.

[IECSC] China Inventory of Existing Chemical Substances.

[NZIoC] New Zealand Inventory of Chemicals.

[PICCS] Philippines Inventory of Chemicals and Chemical Substances.

[KECI] Existing and Evaluated Chemical Substances.

[AICS] Australia Inventory of Chemical Substances.

[ENCS] Existing And New Chemical Substances.

## Note

"√" Indicates that the substance included in the regulations

"x" That no data or included in the regulations

## Section 16 Additional Information

Creation Date 2020/05/11

Revision Date 2020/05/11

Reason for Revision -

## &gt; Disclaimer

This Safety Data Sheet (SDS) was prepared according to UN GHS (the 7th revised edition). The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.