# SAFETY DATA SHEET

# Isobutyric Acid RTC-IA

Runtai Chemical (Taixing) Co., Ltd.

According to GHS (Seventh Revised Edition)



# 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

C4H8O2

> 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 (Taixint) 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

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> 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

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

#### > GHS Label Elements

Pictogram

Signal Word Danger

#### > Hazard Statements

Flammable liquid and vapour H226

H302 Harmful if swallowed Toxic in contact with skin H311

Causes severe skin burns and eye damage H314

Causes serious eve damage H318

# > Precautionary Statements

Prevention

Keep away from heat, hot surfaces, sparks, open flames and other ignition P210

sources. No smoking.

Keep container tightly closed. P233

Ground and bond container and receiving equipment. P240

Use explosion-proof [electrical/ventilating/lighting] equipment. P241

P242 Use non-sparking tools.

Take action to prevent static discharges. P243

Do not breathe dust/fume/gas/mist/vapours/spray. P260

Wash contact area thoroughly after handling. P264

Do not eat, drink or smoke when using this product. P270

Wear protective gloves/protective clothing/eye protection/face protection. P280

Response

Call a POISON CENTER/doctor, if you feel unwell. P312

Specific treatment (see first aid measures on this label). P321

Rinse mouth. P330

Wash contaminated clothing before reuse. P363

IF SWALLOWED: Call a POISON CENTER/ doctor, if you feel unwell. P301+P312

IF INHALED: Remove person to fresh air and keep comfortable for breathing. P304+P340

Take off immediately all contaminated clothing and wash it before reuse. P361+P364 In case of fire: Use Dry chemical, carbon dioxide or alcohol-resistant foam to

P370+P378 extinguish.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P301+P330+P331

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin P303+P361+P353

with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact P305+P351+P338

lenses, if present and easy to do. Continue rinsing.

Storage

P405

Store locked up.

P403+P235

Store in a well-ventilated place. Keep cool.

Disposal

P501

Dispose of contents/container in accordance with local/regional/national/

international regulations.

# Section 3 Composition/Information on Ingredients

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

### Section 4 First Aid Measures

### > Description of First Aid Measures

General Advice

Immediate medical attention is required. Show this safety data sheet (SDS) to

the doctor in attendance.

**Eve Contact** 

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

physician if feel uncomfortable.

Skin Contact

Ingestion

Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 mautes and consult a physician if feel uncomfortable. Do not induce vomiting. Never give anything by mouth to an unconscious

person. Call a physician or Poison Control Center immediately. 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. Inhalation

Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

# Protecting of First-aiders

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

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.

Symptoms may be delayed.

# Section 5 Fire Fighting Measures

# > Extinguishing Media

Suitable Extinguishing Media

Dry chemical, carbon dioxide or alcohol-resistant foam.

Unsuitable

Do not use a solid water stream as it may scatter or spread fire.

Extinguishing Media

# > Specific Hazards Arising from the Substance or Mixture

1 Will form explosive mixtures with air.

Fire exposed containers may vent contents through pressure relief valves thereby increasing fire intensity and/ or vapour concentration.

Vapours may travel to source of ignition and flash back.

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

- 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.
- 級了 Emergency personnel wear positive pressure self-contained breathing apparatus. Wear protective and anti-static clothing. Wear chemical impermeable gloves. JI!
- 5 Ensure adequate ventilation. Remove all sources of gnition.
- Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
- 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

- Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
- Adhered or collected material should be promptly disposed of, in accordance with appropriate laws 2 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.
- Use only non-sparking tools.
- To prevent fire caused by electrostatic discharge steam, equipment on all metal parts should be grounded.
- Use explosion proof equipment.
- Handling is performed in a well ventilated place.
- 6 Wear suitable protective equipment.
- Avoid contact with skin and eyes.
- Keep away from heat/sparks/open flames/ hot surfaces.
- Take precautionary measures against static discharges.

### > Precautions for Storage

- 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

EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

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 stewers 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

Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US). **Eve Protection** 

Wear protective gloves (such as butyl rubber), passing the tests according to **Hand Protection** 

EN 374(EU), US F739 or AS/NZS 2161.1 standard.

If exposure limits are exceeded or if irritation or other symptoms are

experienced, use a full-face respirator with multi-purpose combination (US) or Respiratory protection

type AXBEK (EN 14387) respirator cartridges.

Skin Body Wear fire/flame resistant/retardant clothing and antistatic boots.

Protection

# Section 9 Physical and Chemical Properties

Odor: No information available Appearance: Colorless transparent oily liquid pH: No information available Odor Threshold: No information available

Initial Boiling Point and Boiling Range (℃): 152~155 Melting Point/Freezing Point (°C): -47

Evaporation Rate: No information available Flash Point (°C)( Closed Cup): 56

Upper/lower explosive limits[%(v/v)]: Upper limit:

9; Lower limit: 2

Relative Vapour Density(Air = 1): 3.0

Solubility: Miscible with water

Auto-Ignition Temperature (°C): 481

available

Flammability: Not applicable Vapor Pressure (KPa): 0.13 Relative Density(Water=1): 0.95 n-Octanol/Water Partition Coefficient: 0.88

Decomposition Temperature (°C): No information Kinematic Viscosity (mm²/s): No information

available

Particle characteristics: Not applicable

# Section 10 Stability and Reactivity

Reactivity Contact with incompatible substances can cause decomposition or other

chemical reactions.

**Chemical Stability** Stable under proper operation and storage conditions.

Possibility of

Hazardous Reactions

Conditions to Avoid

Incompatible Materials

Hazardous

Decomposition

products

No information available

Incompatible materials, heat, flame and spark.

No information available

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(Catego

> 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 Bioaccumulative

**Potential** 

Mobility in Soil

Results of PBT and vPvB Assessment

No information available

No information available

No information available

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

Contaminated Packaging Disposal

Recommendations

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

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 Transport Subsidiary** 

Hazard Class

8

3

**Packing Group** 

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### > International Chemical Inventory

# Section 15 Regulatory Information

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS
Isobutyric acid	√	√	√	1	√	V	√	√	√

[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

#### > 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, usered disposal of the product.