

Material Safety Data Sheet

PART ONE: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UDERTAKING

1.1 Chemical Name/Commercial Name: THFA (Tetrahydrofurfuryl Acrylate)

CAS No.: 2399-48-6

Product Code: THFA

Company Name: Runhe Chemical (Guangzhou) Co., LTD

Address: Room 230, No. 82 Baoying Avenue, Huangpu District, Guangzhou

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1.2 The relevant identified application of the substance or mixture and the suggested unsuitable application

Recommended and restricted application: No data

Recommended application: As a polymerization monomer only. Not for pharmaceutical, household or other applications.

Revision date: 8th Feb, 2023

PART TWO: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Skin corrosion/irritation Category 2

Eye damage/irritation Category 2

2.2 Labeling Elements

Symbols/Pictograms



2.3 Signal Word

WARNING

2.4 Hazard Statement

H319 Cause severe eye irritation

H315 Cause skin irritation

2.5 Precautionary Statement

Wear protective gloves/eye protection/face protection

Avoid inhaling dust/fume/gas/mist/vapors/spray

Call a poison control center or doctor if you feel unwell.

If contact with eyes, rinse slowly and gently with water for several minutes. Remove contact lenses if worn and can be easily removed, then continue rinsing.

Store in a well-ventilated area and keep container closed.

2.6 Other Hazards

No data

PART THREE: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Tetrahydro-2-furanylmethyl acrylate
CAS No.	2399-48-6
Concentration	≥99%

PART FOUR: FIRST AID MEASURES

4.1 First Aid Statement

Skin contact: Wash skin with soap and water, seek medical attention if necessary

Eye contact: Rinse thoroughly with plenty of water, including under eyelids. If possible, use lukewarm water. Remove contact lenses if worn and easily removable. Continue rinsing. If eye irritation persists, seek medical attention.

Ingestion: Rinse mouth, drink 200-300 ml of water, seek medical attention.

Inhalation: Keep calm, move to fresh air, seek medical attention.

4.2 First-aid Personnel Statement

Use personal protective equipment as required.

Any indication requiring immediate medical attention and special treatment, receive symptomatic treatment.

PART FIVE: FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing agent

Use water spray, carbon dioxide or dry powder to extinguish fires

5.2 Unsuitable extinguishing agents

No data

5.3 Special hazards caused by chemicals

If exposed to fire, keep container cool, spray with water

5.4 Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective clothing.

PART SIX: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Take appropriate protective measures, wear sealed goggles, gloves, protective clothing and rubber boots for hygienic reasons; Ensure adequate ventilation, especially in confined areas.

6.2 Environmental Precautions

Do not allow to enter any sewer, spill on the ground or enter any body of water; notify the local authorities if there is a large spillage that cannot be contained.

6.3 Containment and Cleanup Methods and Materials

Containment method: No data

Cleanup method: Cover with some inert material to absorb material spills, sweep in waste containers, and remove sources of ignition.

PART SEVEN: HANDLING AND STORAGE

7.1 Safe Handling Precaution

Keep away from heat sources, open flames, sparks and other igniters;

Open and handle containers carefully;

Wear appropriate protective equipment when handling these materials;

7.2 Safe storage conditions, including any incompatibilities

Store in a properly ventilated storage area, in closed containers away from direct sunlight, noting the specified storage temperature.

PART EIGHT: EXPOSURE CONTROL AND PERSONAL PROTECTION

8.1 Control Parameters

Recommend national occupational exposure limits or other equivalents, if any.

8.2 Exposure control

Personal protective equipment

Respiratory protection: For inhalation that may occur during operation, the use of an approved respirator evaluated through Industrial Hygiene Operations recommends that if inhalation does not occur and no respiratory protection is necessary, a full face mask respirator also provides eye and face protection.

Hand protection: Wear nitrile rubber gloves

Eye protection: Prevent eye and skin contact, provide eye wash fountains and safety showers close to potential exposure points, eyeglasses/face protection, chemical splash goggles or face shields, etc.

Body protection: Body protection equipment such as aprons, protective boots, chemical protective clothing against splashes or dust must be selected according to the activity and the body parts that may be exposed.

General safety and health measures: Avoid contact with skin, eyes and clothing. Avoid inhaling vapors. Closed coveralls are required in addition to the prescribed PPE. Operate in accordance with good industrial hygiene and safety practices.

PART NINE: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Basic physical and chemical properties

Appearance	Transparent liquid
Odor	Slight monomer odor
Odor Threshold	No data
pH	No data
Melting Point	No data

Freezing Point	No data
Boiling Point	87°C at 9 mmHg (lit)
Flashing Point	113°C (closed cup)
Evaporation Rate	No data
Flammability	No data
Upper Explosive Limit	No data
Lower Explosive Limit	No data
Flammability Point	No data
Vapour Pressure	No data
Density / Relative Density	1.064 g/cm ³ (25°C)
Relative Vapour Density	No data
Solubility / Water Solubility	No data
Logarithmic value of octanol/water partition coefficient	No data
Auto-ignition Temperature	No data
Decomposition Temperature	No data
Kinematic Viscosity	3-12 cps/25°C
Kinetic Viscosity	No data
Explosiveness	No data
Oxidability	No data

9.2 Other information

Self-heating capacity: No data available, the product is liquid

Radioactivity: Non-radioactive during transportation

Hygroscopicity: No hygroscopicity

Surface activity: No data

Particle size distribution: The product is sold or used in non-solid or granular form

Molar mass: No data

PART TEN: STABILITY AND REACTIVITY

10.1 Reactivity

No data

10.2 Chemical Stability

The product is stable when stored and handled according to the specified specifications.

10.3 Possible Hazardous Chemical Reactions

No data

10.4 Conditions to Avoid

No data

10.5 Incompatible materials

Oxidizing agent

10.6 Hazardous substances from decomposition

No data

PART ELEVEN: TOXICOLOGICAL INFORMATION

Acute toxicity: No data

Skin corrosion/irritation: Can irritate skin

Serious eye damage/irritation: Can irritate eyes

Respiratory or skin allergy: No data

Inhalation hazard: No data

Germ cell mutagenicity: No data

Carcinogenicity: No data

Reproductive toxicity: No data

Developmental toxicity: No data

Specific target organ toxicity (single exposure): No data

Specific target organ toxicity (repeated exposure): No data

PART TWELVE: ECOLOGICAL INFORMATION

12.1 Toxicity

No data

12.2 Persistence and Degradability

No data

12.3 Potential Bioaccumulation

No data

12.4 Migration in soil

No data

12.5 PBT and vPvB evaluation results

No data

12.6 Other hazardous effects

No data

PART THIRTEEN: DISPOSAL CONSIDERATIONS

13.1 Disposal method

Containers for this product should be disposed of in accordance with local, regional, national, and international regulations.

PART FOURTEEN: TRANSPORT INFORMATION

14.1 UN / ID Number

No data

14.2 UN Proper Shipping Name

No data

14.3 Transportation hazard class

No data

14.4 Packaging class

No data

14.5 Environmental hazard

No data

14.6 Special Precautions

No data

PART FIFTEEN: REGULATORY INFORMATION

15.1 Specific safety, health and environmental regulations/laws for the substance or mixture

The Production Safety Law of the People's Republic of China

Regulations on the Safety Administration of Dangerous Chemicals

Series of Standards for the Specification of Warning Labels and Warning Instructions for the Classification of Chemicals (GB20576-2006~20602-2006)

Contents and Order of Items of Chemical Safety Technical Instructions (GB/T16483—2008)

Occupational Exposure Limits of Hazardous Factors in Workplaces (GBZ2-2007)

DISCLAIMER

The information provided in this Material Safety data Sheet is correct based on the latest knowledge, information and perceptions available to us. The information provided is only a guide to safe operation, use, processing, storage, transport, disposal and discharge and shall not be intended for a guarantee or quality specification. The information only applies to the specific substance and may not apply to substances combined with any other substances or substances processed in any way, unless it is stated in the text. The product recipient is responsible for ensuring compliance with any ownership and current laws and regulations.