

### 常州非凡医药科技有限公司

No4 HouYang chemical industrial park.Changzhou P.R.China Tel/Fax:86-519-82111935/86-519-82611250 www.feifanchem.com

### MATERIAL SAFETY DATA SHEET

### 1.Product and company identification

### 1.1 Product identifiers

Product name: 2-Amino-1,3,4-thiadiazole

CAS-No.: 4005-51-0

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

Identified uses: Laboratory chemicals, Synthesis and Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company: Changzhou Extraordinary Pharmatech co.,LTD

Add:No4 HouYang chemical industrial park. Changzhou Jiangsu province P.R. China

Email: info@feifanchem.com Telephone: +86 519 82111935

Fax: +86 519 82611250

### 2.Hazard identification

### 2.1Classification of the substance or mixture

Acute toxicity - Oral, Category 4

Skin irritation, Category 2

Eye irritation, Category 2

Specific target organ toxicity - single exposure, Category 3

### 2.2GHS label elements, including precautionary statements

Pictogram(s)

Signal word Warning

Hazard statement(s) H302 Harmful if swallowed

H315 Causes skin irritation

H319 Causes serious eye irritation

H335 May cause respiratory irritation

**Precautionary statement(s)** 

**Prevention** P264 Wash ... thoroughly after handling.

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

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

protection.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.



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P271 Use only outdoors or in a well-ventilated area.

Response P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/...if you

feel unwell.

P330 Rinse mouth.

P302+P352 IF ON SKIN: Wash with plenty of water/...

P321 Specific treatment (see ... on this label).

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

P304+P340 IF INHALED: Remove person to fresh air and keep

comfortable for breathing.

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

**Storage** P403+P233 Store in a well-ventilated place. Keep container tightly

closed.

P405 Store locked up.

**Disposal** P501 Dispose of contents/container to ...

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

None

### 3. Composition/information on ingredients

### 3.1Substances

Chemical name	Common names and synonyms	CAS number	EC number	Concentration
2-Amino-1,3,4-thiadiazole	2-Amino-1,3,4-thiadiazole	4005-51-0	none	100%

### 4.First-aid measures

### 4.1Description of necessary first-aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

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### In case of eye contact

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

### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

no data available

 ${\bf 4.3} Indication\ of\ immediate\ medical\ attention\ and\ special\ treatment\ needed,\ if\ necessary$ 

no data available

### 5. Fire-fighting measures

### 5.1Extinguishing media

### Suitable extinguishing media

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

### 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.

### 6.Accidental release measures

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

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

### 6.2Environmental precautions

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

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

Pick up and arrange disposal. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### 7. Handling and storage

### 7.1Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

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



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Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

### 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

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### Skin protection

Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique(without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. 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**

Wear dust mask when handling large quantities.

#### Thermal hazards

no data available

### 9. Physical and chemical properties

**Physical state** white to off-white crystalline powder

Colourno data availableOdourno data available

Melting point/ freezing point 10°C(lit.)

Boiling point or initial boiling point 194°C(lit.)

and boiling range

Flammability no data available

Lower and upper explosion limit / no data available

flammability limit



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Flash point 90°C(lit.)

Auto-ignition temperatureno data availableDecomposition temperatureno data availablepHno data availableKinematic viscosityno data availableSolubility0.1 N HCL 22 (mg/mL)

Partition coefficient no data available

n-octanol/water (log value)

Vapour pressureno data availableDensity and/or relative density1.495 g/cm3Relative vapour densityno data availableParticle characteristicsno data available

### 10.Stability and reactivity

### 10.1Reactivity

no data available

### 10.2Chemical stability

Bulk: A sample stored for four weeks at 60 ° C showed no decomposition (UV,TLC). Solution: A solution (10 mg/mL) showed no decomposition after twenty -four hours at room temperature (UV,TLC).

### 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

### 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



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### 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

### 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

### 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.



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### 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.

### 14. Transport information

14.1UN Number

ADR/RID: UN2811 IMDG: UN2811 IATA: UN2811

14.2UN Proper Shipping Name

ADR/RID: TOXIC SOLID, ORGANIC, N.O.S. IMDG: TOXIC SOLID, ORGANIC, N.O.S. IATA: TOXIC SOLID, ORGANIC, N.O.S. **14.3Transport hazard class(es)** 

ADR/RID: 6.1 IMDG: 6.1 IATA: 6.1

14.4Packing group, if applicable

ADR/RID: III IMDG: III IATA: III

14.5Environmental hazards

ADR/RID: no IMDG: no IATA: no

14.6Special precautions for user

no data available

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

no data available

### 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
2-Amino-1,3,4-thiadiazole	2-Amino-1,3,4-thiadiazole	4005-51-0	none
European Inventory of Existing	Listed.		
EC Inventory	Listed.		
<b>United States Toxic Substance</b>	Not Listed.		
China Catalog of Hazardous	Not Listed.		
New Zealand Inventory of Ch	Not Listed.		
Philippines Inventory of Che	Not Listed.		
Vietnam National Chemical I	Not Listed.		
Chinese Chemical Inventory	Listed.		

### 16.Other information

This SDS was prepared sincerely on the basis of the information we could obtained, however, any



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warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority.

The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.

### **Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Changzhou Extraordinary Pharmatech co., LTD not be held liable for any damage resulting from handling.