1. PRODUCT AND COMPANY IDENTIFICATION

Product identifiers
Product name: Tetrasodium Iminodisuccinate (IDS Na4)
Brand: Yuanlian
CAS-No.: 144538-83-0

Relevant identified uses of the substance or mixture and uses advised against
Identified uses: Complexing agent / Bleach stabilizer / Water softening.

Details of the supplier of the safety datasheet
Company: Shandong Yuanlian Chemical Co., Ltd.
Jining, Shandong, China
Telephone: +86 537-337-9962
Fax: +86 537-337-9963

Emergency telephonenumber
Emergency Phone#: +86 537-337-9962

2. HAZARDS IDENTIFICATION

The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification of the substance or mixture
Not a hazardous substance or mixture.

GHS Label elements, including precautionary statements
Not a hazardous substance or mixture.

Label elements
Labelling according to EU-GHS/CLP No 1272/2008

Warning
Hazard statements:
H317 May cause an allergic skin reaction.

Precautionary statements:
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P361 Remove/ Take off immediately all contaminated clothing.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
P501 Dispose of contents/ container according to local regulations.

Hazards not otherwise classified (HNOC) or not covered by GHS

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Substances
CAS-No.: 144538-83-0

No ingredients are hazardous according to OSHA criteria.
No components need to be disclosed according to the applicable regulations.

4. FIRST AID MEASURES

Description of first aid measures

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration.
In case of skin contact
Wash off with soap and plenty of water.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water.

Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of any immediate medical attention and special treatment needed
no data available

5. FIREFIGHTING MEASURES
Extinguishing media suitable

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

Special hazards arising from the substance or mixture
no data available

Advice for firefighters
Wear self contained breathing apparatus for fire fighting if necessary.

Further information
no data available

6. ACCIDENTAL RELEASE MEASURES
Personal precautions, protective equipment and emergency procedures
Avoid dust formation. Avoid breathing vapours, mist or gas.
For personal protection see section 8.

Environmental precautions
Do not let product enter drains.

Methods and materials for containment and cleaning up
Sweep up and shovel. Keep in suitable, closed containers for disposal.

Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE
Precautions for safe handling
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Control parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

Exposure controls

Appropriate engineering controls
General industrial hygiene practice.

Personal protective equipment
**Eye/face protection**  
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection**  
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.

**Body Protection**  
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**  
Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure**  
Do not let product enter drains.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Delivery Form</strong></td>
<td>solid</td>
</tr>
<tr>
<td><strong>Appearance</strong></td>
<td>white powder</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>no odor</td>
</tr>
<tr>
<td><strong>pH value 10% solution</strong></td>
<td>approx. 11.0</td>
</tr>
<tr>
<td><strong>Bulk density [kg/Liter]</strong></td>
<td>0.5 – 0.7</td>
</tr>
<tr>
<td><strong>Solubility in water at 20°C [g/ 100g H2O]</strong></td>
<td>56</td>
</tr>
<tr>
<td><strong>Solubility in glycol at 20°C [g/100g glycol]</strong></td>
<td>very low</td>
</tr>
<tr>
<td><strong>COD (DIN H 41) [mg O2/g]</strong></td>
<td>approx. 480</td>
</tr>
<tr>
<td><strong>BoD 7 [mg O2 /g]</strong></td>
<td>&gt; 260</td>
</tr>
</tbody>
</table>

**Other safety information**

no data available
10. STABILITY AND REACTIVITY

Reactivity
the substance has low chemical reactivity

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
no data available

Conditions to avoid
keep away from heat.

Incompatible materials
no data available

Hazardous decomposition products
Other decomposition products - no data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity
not harmful
Inhalation: no data available
Dermal: no data available
no data available

Skin corrosion/irritation
no data available

Serious eye damage/eye irritation
no irritating

Respiratory or skin sensitisation
may cause an allergic skin reaction

Germ cell mutagenicity
no

Carcinogenicity
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
no data available

no data available

Specific target organ toxicity - single exposure
no data available

Specific target organ toxicity - repeated exposure
no data available
Aspiration hazard
no data available

Additional Information
RTECS: Not available
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

Toxicity
no data available

Persistence and degradability
Biodegradation acc. OECD 302 79.6% after 28 days.

Bioaccumulative potential
no data available

Mobility in soil
no data available

Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects
no data available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

15. REGULATORY INFORMATION

EU regulations
Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

Industrial applications.

Risk phrases : This product is not classified according to EU legislation.
16. OTHER INFORMATION

**HMIS Rating**
- Health hazard: 0
- Chronic Health Hazard: 0
- Flammability: 0
- Physical Hazard: 0

**NFPA Rating**
- Health hazard: 0
- Fire hazard: 0
- Reactivity hazard: 0

**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.