

**Safety Data Sheet**  
**According to Regulation (EC) No 1907/2006**  
**Amended by COMMISSION REGULATION (EU) 2020/878,**  
**According to REGULATION (EC) No 1272/2008**

Urine Sediment Analyzer Detergent

Version 1.0

Issue date: 09-03-2022

Revision date: 09-03-2022

SDS Record Number: CSSS-TCO-010-117221

**Section 1 Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier:**

Identification on the label/Trade name: Urine Sediment Analyzer Detergent  
Additional identification: Nanoform is NOT covered by this SDS.  
UFI: N/A  
Identification of the product: See section 3  
Index Number: See section 3  
REACH registration No.: See section 3

**1.2 Relevant identified uses of the substance and uses advised against:**

**1.2.1 Identified uses:**

It is used for cleaning the pipeline and flow cell of Urine Sediment Analyzer, FUS Series Urinalysis Hybrid and MUS Urinalysis System.

**1.2.2 Uses advised against:**

Not available

**1.3 Details of the supplier of the safety data sheet:**

Supplier(Only representative): -  
Supplier(Manufacturer): DIRUI INDUSTRIAL CO., LTD.  
Address: 95 Yunhe Street, New & High Tech. Development Zone Changchun, Jilin 130012  
P.R. China  
Contact person(E-mail): dirui@dirui.com.cn  
Telephone: +86-431-85100409  
Fax: +86-431-85172581

**1.4 Emergency telephone Number:**

+86-431-85100409 Only available during office hours (9:00a.m.-17:30p.m.)

Available outside office hours? YES  NO

**Section 2 Hazards Identification**

**2.1 Classification of the substance/mixture:**

**2.1.1 Classification:**

The mixture is classified as following according to REGULATION (EC) No 1272/2008:

REGULATION (EC) No 1272/2008	
Hazard classes/Hazard categories	Hazard codes
N/A	N/A

**2.2 label elements:**

**Hazard Pictograms:** No hazard pictogram is used.

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SDS EU

1 / 6

**Signal Word(S):** No signal word is used.  
**Hazard Statement:** Not applicable.  
**Precautionary statement:** Not applicable.  
**Supplemental Hazard information (EU)** Not applicable.

### 2.3 Other hazards:

The mixture does not contain PBT/vPvB substance.  
The mixture does not contain endocrine disruptor.

## Section 3 Composition/information on ingredients

**Substance/Mixture:** Mixture

### Ingredient(s):

Chemical Name	Registration No.	CAS No.	EC No.	Concentration	classifications	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
Water	N/A	7732-18-5	231-791-2	99.50%	Not Classified	N/A
Sodium hypochlorite	N/A	7681-52-9	231-668-3	0.50%	H314 H318 H400 H410 EUH031	EUH031: C $\geq$ 5 % M=10 M(Chronic)=1

## Section 4 First aid measures

### 4.1 Description of first aid measures:

In all cases of doubt, or when symptoms persist, seek medical attention.

#### 4.1.1 In case of inhalation:

Move to fresh air. Oxygen or artificial respiration if needed. Keep under medical surveillance. In case of problems: Hospitalize.

#### 4.1.2 In case of skin contact:

Wash immediately, abundantly and thoroughly with water. Consult a physician. In case of extensive burns, hospitalize.

#### 4.1.3 In case of eyes contact:

Wash open eyes immediately, abundantly and thoroughly for at least 15 minutes. Consult an ophthalmologist immediately.

#### 4.1.4 In case of ingestion:

Do not induce vomiting, rinse mouth and lips with plenty of water if the subject is conscious, then hospitalize.

### 4.2 Most important symptoms and effects, both acute and delayed:

The product is not classified as harmful to human health effect.

### 4.3 Indication of any immediate medical attention and special treatment needed:

If skin irritation or rash occurs, get medical advice/attention.

## Section 5 Fire-Fighting measures

### 5.1 Extinguishing media:

**Suitable extinguishing media:** Use chemical foam, dry chemical, carbon dioxide or water.

**Unsuitable extinguishing media:** Not available.

### 5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products may be released, such as Chlorine, Hypochlorous acid, Sodium chlorate.

### 5.3 Special fire fighting methods and

In case of fire nearby, remove exposed containers. Cool containers / tanks with

**special protective actions for fire-fighters:**

water spray. Fire-fighters should wear a self contained breathing apparatus. Complete suit protecting against chemicals.

## Section 6 Accidental release measures

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

**6.1.1 For non-emergency personnel:**

Prohibit contact with skin and eyes and inhalation of vapors. Use personal protective equipment. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

**6.1.2 For emergency responders:**

Avoid skin and eye contact. Refer to section 8 of SDS for personal protection details.

### 6.2 Environmental Precautions:

Do not release into the environment. Do not let product enter drains. Dam up and absorb on an inert material.

### 6.3 Methods for Containment and Cleaning up:

Pump into a clean labeled emergency container After cleaning, flush away traces with water. Recover water for later processing. Neutralize contaminated water with a sodium thiosulphate solution.

### 6.4 Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

## Section 7 Handling and storage

### 7.1 Precautions for safe handling:

**7.1.1 Protective measures:**

Use only clean equipment. Provide impermeable floor. Provide a catch-tank and anti-corrosion protected electrical equipment in a bunded area. Avoid splashing when handling. Only dilute with de-ionised water (cationic resin).

**7.1.2 Advice on general occupational hygiene:**

Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

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

Keep tightly closed in a dry, cool and well-ventilated place. Use non-combustible construction materials. Store away from moisture and heat to maintain the technical properties of the product. Protect against light. Store between: 15 °C to 25 °C. Incompatible products: Acids, Ammonia, Combustible material.

### 7.3 Specific end use(s):

Not applicable.

## Section 8 Exposure Controls/Personal Protection

### 8.1 Control parameters:

**8.1.1 Occupational exposure limits:**

Not available.

**8.1.2 Additional exposure limits under the conditions of use:**

Not available.

**8.1.3 DNEL/DMEL and PNEC-Values:**

Not available.

### 8.2 Exposure controls:

**8.2.1 Appropriate engineering controls:**

Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**8.2.2 Individual protection measures, such as personal protective equipment:**

**Eye/face protection:**

No special requirements.

**Hand protection:**

No special requirements. Wear gloves if necessary.

**Body protection:**

No special requirements.

**Respiratory protection:**

No special requirements.

**Thermal hazards:**

Wear suitable protective clothing to prevent heat.

**8.2.3 Environmental exposure controls:**

Avoid discharge into the environment. Dispose of rinse water in accordance with

local and national regulations According to local regulations, Federal and official regulations.

## Section 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties:

<b>Appearance:</b>	liquid
<b>Colour:</b>	Not available
<b>Odour:</b>	Not available
<b>Odour threshold:</b>	Not available
<b>pH:</b>	Not available
<b>Melting point/range (°C):</b>	-28.9 °C (CAS# 7681-52-9)
<b>Boiling point/range (°C):</b>	Not available
<b>Flash point (°C):</b>	> 111 °C (CAS# 7681-52-9)
<b>Evaporation rate:</b>	Not available
<b>Flammability limit - lower (%):</b>	Not available
<b>Flammability (solid, gas):</b>	Not available
<b>Ignition temperature (°C):</b>	Not available
<b>Upper/lower flammability/explosive limits:</b>	Not available
<b>Vapour pressure (20°C):</b>	ca. 2.5 kPa (CAS# 7681-52-9)
<b>Vapour density:</b>	Not available
<b>Relative density:</b>	1.3 (21.2 °C) (CAS# 7681-52-9)
<b>Bulk density (kg/m<sup>3</sup>):</b>	Not available
<b>Water solubility (g/l):</b>	Not available
<b>n-Octanol/Water (log Po/w):</b>	log Pow: -3.42 (20 °C) (CAS# 7681-52-9)
<b>Auto-ignition temperature:</b>	Not available
<b>Decomposition temperature:</b>	>= 60.4 °C (CAS# 7681-52-9)
<b>Viscosity, dynamic (mPa.s):</b>	1.1 - 1.4 mPa s (CAS# 7681-52-9)
<b>Explosive properties:</b>	Not available
<b>Oxidising properties:</b>	Not available

### 9.2. Other information:

<b>Fat solubility(solvent– oil to be specified)</b>	Not available
<b>etc:</b>	
<b>Surface tension:</b>	82.4 mN/m (20 °C) (CAS# 7681-52-9)
<b>Dissociation constant in water( pKa):</b>	Not available
<b>Oxidation-reduction Potential:</b>	Not available
<b>Specific gravity:</b>	Not available

## Section 10 Stability and reactivity

<b>10.1 Reactivity:</b>	The substance is stable under normal storage and handling conditions.
<b>10.2 Chemical stability:</b>	Stable in closed containers under recommended storage and handling conditions.
<b>10.3 Possibility of hazardous reactions:</b>	No dangerous reactions known.
<b>10.4 Conditions to avoid:</b>	Incompatible materials. Product is sensitive to light and moisture.
<b>10.5 Incompatible materials:</b>	Acids (violent decomposition with release of chlorine), Metals (decomposition with formation of oxygen), Combustible material.
<b>10.6 Hazardous decomposition products:</b>	Chlorine, Hypochlorous acid, Sodium chlorate.

## Section 11 Toxicological information

### 11.1 Toxicokinetics, metabolism and distribution:

Non-human toxicological data: Not available

### 11.2 Information on toxicological effects:

#### Acute toxicity:

Sodium hypochlorite (CAS#7681-52-9):

LD50(Oral, Rat): 1100 mg/kg bw

LD50(Dermal, Rabbit): > 20000 mg/kg bw

LC50(Inhalation, Rat): Not available

Skin corrosion/Irritation: Not classified

Serious eye damage/irritation: Not classified

Respiratory or skin sensitization: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

STOT- single exposure: Not classified

STOT-repeated exposure: Not classified

### 11.2 Information on other hazards

Endocrine disrupting properties: The mixture does not contain endocrine disruptor.

Other information: Not applicable

## Section 12 Ecological information

### 12.1 Toxicity:

Sodium hypochlorite (CAS#7681-52-9):

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	N/A	96h	Fish	OECD 203	N/A	N/A
EC50	141 µg/L	48h	Daphnia	OECD 202	N/A	N/A
EC50	N/A	72h	Algae	OECD 201	N/A	N/A

12.2 Persistence and degradability: Not available.

12.3 Bioaccumulative potential: Sodium hypochlorite (CAS#7681-52-9): log Pow: -3.42 (20 °C)

12.4 Mobility in soil: Not available.

12.5 Results of PBT and vPvB assessment: The mixture does not contain PBT / vPvB substance.

Results of PBT&vPvB assessment: Not available.

12.6 Endocrine disrupting properties: The mixture does not contain endocrine disruptor.

12.7 Other adverse effects: Not available.

12.8 Additional information: Not available.

## Section 13 Disposal considerations

13.1 Waste treatment methods: The material should be disposed of by incineration in a chemical incinerator in compliance with national and regional requirements.

## Section 14 Transport information

	Land transport(ADR/RID)	Inland waterways (ADN)	Sea transport (IMDG)	Air transport (ICAO/IATA)
<b>14.1 UN-Number or ID number</b>	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.2 UN Proper shipping name</b>	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.3 Transport hazard Class(es)</b>	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.4 Packaging group</b>	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.5 Environmental hazards</b>	No	No	No	No
<b>14.6 Special precautions for user</b>	See section 2.2	See section 2.2	See section 2.2	See section 2.2
<b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not regulated	Not regulated	Not regulated	Not regulated

## Section 15 Regulation information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

**Relevant information regarding authorization:** Not applicable.

**Relevant information regarding restriction:** Not applicable.

**Other EU regulations:** Employment restrictions concerning young person must be observed. For use only by technically qualified individuals.

**Other National regulations:** Not applicable

**Chemical Safety Assessment has been carried out?** YES  NO

## Section 16 Other information

### 16.1 Indication of changes:

Version 1.0 Amended by EU 2020/878

### 16.2 Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulation for rail International transportation of Dangerous goods

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: Code international maritime dangerous goods code

ICAO: International Civil Aviation Organization

IATA: International Air Transport Association

LC50: median lethal concentration

EC50: The effective concentration of substance that causes 50% of the maximum response.

NOEC: No Observed Effect Concentration

DNEL: derived no-effect level

PNEC: predicted no-effect concentration

### 16.3 Key literature references and sources for data

ECHA Registered substances data

### 16.4 Training instructions:

Not applicable.

### 16.5 Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

### 16.6 Notice to reader:

Product name: Urine Sediment Analyzer Detergent  
Version #: 1.0 Issue date: 09-03-2022. Revision date: 09-03-2022.

SDS EU  
6 / 6

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