

# Material Safety Sheet

## Part 1 Chemicals and Enterprise Identification

### 1.1 Chemical labeling

Chemical name: Surfactant

### 1.2 Corporate Identity

Supplier: Dongying Zhaodi Trading Co., Ltd

Address: Room 402, Block E, Kerui Group, No. 233, Nan'er Road, Dongying District, Dongying, Shandong Province (New Economy Industrial Park)

Postal Code: 257100

### 1.3 Product Usage

Usage: This product is an acid inhibitor used for downhole composite unblocking operations.

## Part 2 Overview of Hazards

### 2.1 Overview of Emergency

<b>Appearance</b>	liquid
<b>Colour</b>	White/colorless
<b>Odour</b>	nothing
<b>Health hazards</b>	May cause eye damage
<b>Safety (Physical) Hazards</b>	Not classified as flammable
<b>Environmental hazards</b>	Not classified as an environmental hazard.

### 2.2 GHS Hazard Categories

Flammable liquid: None

Eye irritation: Yes

### 2.3 Label Elements

Pictogram



Signal word: stimulus

Hazard Statement: H319 Severe Eye Irritation

### **Part 3 Composition/Composition Information**

#### **3.1 Substance/Mixture**

Purity

#### **3.2 Composition of the mixture**

<b>Composition</b>	<b>Concentration or concentration range (mass fraction,%)</b>	<b>CAS No</b>
Alkyl glycoside APG0814	48	141464-42
water	52	7732-18-5

### **Part 4 First Aid Measures**

#### **First aid measures**

Inhalation: Transfer to fresh air. If symptoms persist, medical advice should be obtained.

Ingestion: Rinse your mouth and drink plenty of water (500mL). If you feel unwell, immediately call a poisoning emergency center/doctor.

Skin contact: Rinse with plenty of water.

Eye contact: Lift the eyelids and immediately rinse with plenty of water or physiological saline for at least 15 minutes, including under the eyelids. Seek medical attention immediately.

### **Part 5 Fire Protection Measures**

#### **5.1 Fire extinguishing agents**

Suitable extinguishing medium: select suitable extinguishing agent (water mist/foam/carbon dioxide).

Unsuitable extinguishing agent: Avoid direct water extinguishing

#### **5.2 Special hazards of substances**

Hazardous characteristics: None/non combustible

### **5.3 Fire extinguishing precautions and protective measures**

Protective actions taken during the firefighting process isolate the accident site and prohibit unrelated personnel from entering; Firefighters should extinguish the fire upwind.

Firefighters need to wear appropriate protective equipment (including chemical protective gloves) for their special protective equipment; If there is a possibility of extensive contact with spilled products, chemical protective clothing must be worn. If you need to enter a confined space where a fire has occurred, you must wear self-contained breathing equipment. Choose fire-fighting clothing that meets relevant standards (such as EN469 in Europe, GB8965, NFPA 1994).

## **Part 6 Emergency Response for Leakage**

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

Staff should wear personal protective equipment.

### **6.2 Environmental Protection Measures**

Maintain good ventilation in the application area. Do not pour into drains, sewers, or rivers.

### **6.3 Storage and removal methods of leaked chemicals and disposal materials used**

Leakage: Use inert materials (dry sand, soil, etc.) to absorb the leakage and store it in a suitable container for proper disposal.

### **6.4 Preventive measures to prevent secondary disasters from occurring**

Prevent spilled materials from entering drainage channels, sewers, or rivers.

## **Part 7 Handling and Storage**

### **7.1 Handling**

Protective measures for safe handling: wear qualified Dust mask, gloves, work clothes, protective shoes, goggles and labor protection articles, use proper loading and unloading tools, and it is forbidden to carry with prohibited substances. Do not inhale or come into contact with this product, only use in ventilated areas.

Precautions for safe disposal: Maintain good ventilation in the application area. Do not approach sources of ignition Smoking and fire are strictly prohibited. Take measures to prevent the accumulation of static electricity.

Product transportation: Keep away from ignition and heat sources, avoid contact with oxidants, and

prevent leakage.

## 7.2 Storage

Safe storage conditions: Store in a cool and ventilated warehouse. Packaging sealing. It should be stored separately from prohibited substances. When transporting, load and unload with care, keep the packaging intact, and prevent spillage.

Packaging material: PVF galvanized bucket or plastic bucket coated internally.

Unsuitable material: None.

## Part 8 Exposure Control and Personal Protection

### 8.1 Monitoring methods

No need for monitoring

### 8.2 Personal protective equipment

Respiratory system: When the concentration in the air exceeds the standard, a filter mask should be worn.

Hand protection: Protective gloves must be worn during the use of this material.

Eye protection: provide Eyewash

## Part 9 Physical and Chemical Characteristics

**Appearance and properties:** liquid

**Color:** Light yellow/white

**Odor:** fruity aroma

**Freezing point (°C):** No data available

**Boiling point, initial boiling point, and boiling range (°C):** 100

**Melting point (°C):** No data available

**Flammability:** Flammable

**Flash point (°C):** > 100 °C

**Upper and lower Flammability limit/flammable limit:** no data

**Decomposition temperature (°C):** > 150

**Autoignition temperature (°C):** > 150

**Viscosity:** 350-400mPa · s

**Solubility:** easily soluble in water

**Density/or relative density:** 1.08

## Part 10 Stability and Reactivity

### 10.1 Stability

When disposed of and stored according to regulations, this product is stable.

### 10.2 Hazardous reactions

There is no data indicating hazardous reactions.

### **10.3 Conditions to avoid**

Avoid electrostatic discharge and heat sources.

### **10.4 Prohibited substances**

Strong oxides, strong acids, strong bases.

### **10.5 Hazardous decomposition products**

No known hazardous decomposition products.

## **Part 11 Toxicological Information**

### **11.1 Product Toxicological Effect Information**

Acute oral toxicity: LD50>2000mg/kg (rats).

LD50 >2000mg/kg (兔子)。

LD50 > 2000mg/kg (rabbit).

Acute percutaneous toxicity: mild irritation.

Skin irritation or corrosion: Mild irritation.

Severe eye damage/eye irritation: May cause eye irritation.

Respiratory or skin allergies: According to existing data, the classification criteria are not met; There should be no sensitization effect.

Germ cell mutagenicity: according to the existing data, it does not meet the classification criteria; There is no data indicating harm.

Carcinogenicity: According to existing data, it does not meet the classification criteria; No data shows carcinogenesis.

Reproductive toxicity: according to the existing data, it does not meet the classification criteria; There is no data indicating harm.

Specific target Organ system toxicity (one-time exposure): according to the existing data, it does not meet the classification criteria; No harm generated.

Specific target Organ system toxicity (repeated exposure): according to the existing data, it does not meet the classification criteria; No harm generated.

Inhalation hazards: According to existing data, the classification criteria are not met; Not considered as an inhalation hazardous substance.

## **Part 12 Ecological Information**

### **12.1 Ecological toxicity**

Toxicity to fish (acute toxicity): EC50: > 100mg/L 96h (fish);

Toxicity to other animals (acute toxicity): EC50: > 100mg/L for 24 hours (water fleas)

### **12.2 Persistence and degradability**

Biodegradability: easily biodegradable, meeting the requirements of EC6488/2004

### **12.3 Potential Bioaccumulation**

Bioaccumulation or bioaccumulation: no significant Bioaccumulation.

### **12.4 Mobility in Soil**

Mobility in soil: Easy to degrade and does not pollute soil and water bodies.

### **12.5 Other harmful effects on the environment**

No data available.

## **Part 13 Abandonment and Disposal**

### **13.1 Waste treatment methods**

Residual waste: Treatment should be carried out in accordance with relevant national and local regulations. It should be recycled or reused as much as possible. Waste generated from spills or container cleaning should be collected and disposed of by recognized waste collectors or contractors in accordance with current regulations. The qualifications of the collector or contractor should be determined in advance. Disassemble all packaging for recycling or waste disposal. Do not dispose of it in the environment, drainage ditches, or waterways. Waste should not be allowed to pollute soil or water. Disassemble all packaging for recycling or waste disposal.

Polluted packaging materials: According to the regulations currently in effect, they should be disposed of by recognized waste collectors or contractors.

Disposal precautions: The disposal method should comply with applicable regional, national, and local laws and regulations. If there is a possibility of contact, please refer to the section 8 on personal protective equipment.

## **Part 14 Transportation Information**

UN number: /

United Nations Hazard Classification: /

Packaging category: /

Environmental hazards: No

Transportation precautions: It is necessary to ensure that the loaded goods do not run, emit, drip, or leak, and to install a leak trap at the valve entrance. It is strictly prohibited to mix and transport with prohibited materials. The packaging should be complete during transportation and the loading should be stable. During transportation, it is necessary to ensure that the container does not leak, collapse, fall, or be damaged. During transportation, it should be protected from exposure to sunlight, rain, and high temperatures. During road transportation, it is necessary to follow the prescribed route; Transport vehicles should be equipped with corresponding types and quantities of fire-fighting equipment and leakage emergency response equipment. Keep away from sources of ignition and heat.

Bulk transportation (in accordance with Annex II of MARPOL 73/78 and International Regulations on the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk)

## **Part 15 Regulatory Information**

### **Chinese regulations**

The relevant regulatory information is not complete, and there are other regulations applicable to this product.

The following laws, regulations, and standards have corresponding provisions for the safe use, storage, transportation, loading and unloading, classification, and labeling of chemicals:

Classification and Product Names of Dangerous Goods (GB 6944-2012): Not included

General Principles for Classification and Hazard Disclosure of Chemicals: Not included

Law of the China on the Prevention and Control of Occupational Diseases: not included

List of Key Regulated Hazardous Chemicals: Not included

Catalogue of Highly Toxic Chemicals: Not included

Regulations on the Safety Management of Hazardous Chemicals: Not included

Environmental Management Measures for New Chemical Substances: Not included

## **Part 16 Other Information**

### **Disclaimers**

The information in the SDS of this product is compiled based on the relevant material information

currently owned by the unit. Our unit has provided all relevant information comprehensively and truthfully in this SDS, but we cannot guarantee its absolute universality and accuracy. This SDS only provides safety precautions for personnel who have received appropriate professional training and use the product. Individual users who obtain this SDS must make independent judgments on the applicability of this SDS under special usage conditions. In special usage situations, Hubei Jiangnan Petroleum Technology Co., Ltd. will not be responsible for any injuries caused by the use of this SDS.