



The limited liability company "SWAN-NN"

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## **Safety data sheet**

### **Security information in the production, use, storage, transportation, disposal of the Ruzin trademark products (GOST 30333-2007)**

#### **1. Identification of chemical production and information about the producer and supplier.**

Ruzin-14BT –aqueous polymer bitumen emulsion.,

**Application:** Construction industry, road grid.

**Supplier:** LLC «SWAN-NN», 606000, Russia, Nizhny Novgorod Region, Dzerzhinsk, Nauki St., 12B, ph.: (8313) 31-45-80, 31-45-81.

Person, responsible for production and release into the stream of commerce of chemical production:

**Bokarev M.V.**

Phone of an emergency communication of the organization at emergency: (8313) 31-45-80.

#### **2. Identification of danger**

In accordance with the prescription of the GHS binders, inks for printing and components are not classified as dangerous. Marking is not required.

#### **3. Structure (information on components):**

##### **Mix of substances:**

An aqueous solution of an acrylic copolymer.

Water-bitumen emulsion.

Class of danger of components: The 4th class of danger, in accordance with GOST 19433 is not classified.

#### **4. First aid measures.**

##### **Inhalation:**

At this influence adverse effects are not expected.

##### **Contact with skin:**

To wash out a large amount of running water.

##### **Eye contact:**

Immediately flush with water for 5 minutes.

## **5. Measures and means of ensuring fire - explosion safety**

The product is not flammable, before the evaporation of the water does not burn.

### **Fire extinguishing means:**

Water fog or fine water dust. Carbon dioxide. Foam, Dry chemicals.

### **Dangerous combustion gases:**

When burning, the dry product forms a thick black smoke.

### **Means of protection:**

The isolating respiratory device with pressure above the atmospheric and protective fire-prevention equipment (a helmet, a cape, trousers, boots and gloves).

## **6. Measures for prevention and elimination of accidents and emergencies and their consequences.**

### **Personal precautions:**

To use suitable individual protective equipment (see the section 8 "Influence Monitoring, Individual Protection").

### **Environmental precautions:**

To prevent the pollution of the surface and ground waters.

### **Methods of carrying out cleaning work:**

In case of pouring to isolate with bunding use.

## **7. Rules for storage of chemical products and handling during loading and unloading operations.**

### **Storage:**

Production is stored in the dry warehouse at a temperature not below 2°C.

The product must be protected from freezing and temperature exceeding 40°C.

At a temperature close to zero, the product freezes and loses its conditionally due to irreversible changes of properties. Store in a securely closed polyethylene container, polyethylene barrel (drum, bucket).

### **Treatment:**

At handling operations for an exception of depressurization of the filled container not to allow falling of unicubes, barrels, drums with production from height.

## **8. Controls for exposure and individual protection means.**

### **Personal protective equipment:**

#### **-Protection of respiratory organs**

Under normal circumstances, respiratory protection is not required, however, when working in the presence of small drizzle or prolonged contact use dust mask. You must keep in mind that due to the impact of multiple factors (room temperature, humidity, individual characteristics of employees), you must defend yourself with the help of a respirator

#### **-Protection of the skin**

Other precautionary measures, except the clear, closing a body clothes are not required.

With prolonged contact, use gloves impervious to this product.

#### **-Eye protection**

safety spectacles with side protection (in a frame).

## **9. Chemical and physical properties.**

Physical condition	aqueous solution
smell	almost flavourless
Maintenance of a solid phase	48-52%
combustibility	is not combustible
pH	5,0 – 9,0
Viscosity (according to Brookfield RVN, a spindle 5 at 50 rpm)	500 -5000 MPa •c
freezing point	0 °C

boiling region	is not tested
Flash point	is not tested
Burning point	is not tested
Self-ignition point	is not tested
Melting point	is not tested
Opportunity and conditions of self-ignition	is not tested
Oxidizing properties	is not tested
Pressure of vapors	is not tested
Miscibility with water	is not tested

## **10. Stability and chemical activity.**

### **Chemical stability:**

The product is stable under normal conditions of handling and storage according to claim 7.

### **Substances, the contact with which should be avoided:**

Addition of chemicals, such as acids or salts of multivalent metals, can lead to coagulation.

**Period of validity under the specified conditions** - 6 months from the date of manufacture.

## **11. Information on toxicity.**

### **Ingestion:**

Disposable oral toxicity is low. LD<sub>50</sub> oral dose for rats is >2000 mg/kg. Emergence of danger at casual ingestion of great manies when carrying out routine works is not supposed.

Contact with the skin:

LD<sub>50</sub> for absorption through the skin in rats is >2000 mg/kg. Short-term single exposure does not cause significant irritation of the skin.

### **Inhalation:**

An adverse effect at inhalation is not expected.

### **Eye contact:**

Can cause temporary irritation of eyes. Damage of a cornea is improbable.

## **12. Information on environmental impact.**

The product is nontoxic, is not dangerous.

Uncontrolled dumping of product into the environment should be avoided.

By production all complex of nature protection actions according to GOST 17.0.0.01 has to be provided.

## **13. Рекомендации по удалению отходов (остатков).**

Захоронение твердых отходов согласно местным нормативным актам.

Сточные воды от промывки оборудования направляют на сжигание.

## **14. Transport information**

Transportation by the railway and motor transport according to the Rules of transportation of goods existing on this type of transport, and GOST 9980.5. Transportation is carried out in covered wagons, road transport, equipped with a tent or covered with a tarpaulin. In cold season transportation must be only in the warmed transport in order to avoid freezing of a product.

## **15. Information on the international and national legislation.**

No.

## **16. Additional information.**

Data sources used in the compilation of the safety data sheet:

Technical specifications 2241-012-57845504-2005 with changes No. 1-5.

The chemist's Handbook.

Contact person: head of laboratory Egamova Ekaterina.

Phone: +7 (8313) 21-03-31.

**I confirm reliability of the data specified in the material safety data sheet**

**Commercial director of LLC «SWAN-NN», Candidate of Chemistry**

**V.I. Trachenko**