



MATERIAL SAFETY DATA SHEET

Primer UNIKOR-K

1. Identification of the substance/preparation and company/undertaking

Name of product and/or its code: **Primer Unikor-K**

Supplier/Manufacturer: EMLAK Closed Joint-Stock Company

192177, Saint Petersburg, ul. Karavayevskaya 57, Russia

Tel./fax: +7 812 252-54-87

Emergency phone: +7 812 252-03-58

Product use: Water primer.

2. Name and composition of substance or material

Chemical name	CAS no.	%	Classification
Butylprop-2-enoate	141-32-2	< 0.03	Xi; R38; R66
2,2- Oxydiethanol	111-46-6	1.5-4	R22
2,2,4-trimethylpentane-1,3- diol-(2-methylpropanoate)	25265-77-4	1.0-1.5	R22

Maximum allowable concentrations of harmful substances in the work area (if any) are given in section 8

3. Hazards identification

A hazard is caused by properties of toxic components included in the primer. The primer can be classified as a low-hazard material by effect on human organism. Intake is possible via inhalation, through mucous membranes of eyes, through damaged skin (wounds, cracks, bruises).

4. First aid

General: In case of doubt or when symptoms persist seek medical attention. Never give anything to an unconscious person through mouth.

Inhalation: Bring the victim to fresh air. Make the victim take a quiet position in a warm place. If there is no breathing, breathing is irregular or held for long, artificial breathing should be administered to the victim by trained personnel or oxygen given. Do not give anything by mouth. If the person is unconscious, take him/her out of the danger area and seek medical attention.

Skin contact: Take off contaminated clothes and footwear. Thoroughly wash skin with soap and water or use known agents for skin cleaning. Do not use any solvents or dilutants.

Eye contact: Remove contact lenses. Immediately wash open eyes with running water within at least 15 minutes.

Ingestion: When the product is ingested immediately seek medical attention. Show the physician this data sheet or label. Keep the victim in a warm place in a quiet position. It is forbidden to induce vomit.

5. Fire-fighting measures

Primer Unikor-K is a fire-flame-proof substance.

Extinguish small ignitions with foam and coal carbon fire extinguishers, sand, smothering blanket.

Extinguishing media: Extinguish small fire with stationary fire extinguishers, powder, water spray, foam.

Recommendations: Fire and thermal destruction generate carbon oxide, smoke fumes harmful to human health. Do not allow runoff from the fire site to get into sewers or water courses.

6. Accidental release measures

Personal protection: Avoid inhaling vapors or mist. See List of protective measures in Sections 7 and 8.

Containment: In case of spillage collect the primer using non-combustible absorbing material such as sand, soil, and put into a container for subsequent annihilation in accordance with the existing local rules (see Section 13). Do not discharge into drainage channels and water courses. It is preferable to use detergents for cleaning. Do not use solvents. According to local regulations, when great quantities of the primer get into lakes, rivers, or manifolds, advise the respective authorities thereof.

Note: To receive information related to protective equipment and waste annihilation, see Section 8 and Section 13 respectively.

7. Handling and storage

Handling the product: Keep the containers tightly closed. Store, avoiding direct sunlight, away from sources of heating, sparks, and fire.

Avoid contact with skin and eyes. Avoid inhaling dust, particles of aerosol and mist arising when using this preparation. Avoid inhaling dust when cleaning using sand.

It is forbidden to eat, drink, or smoke in the places where the product is handled or stored. Before eating or smoking, the workers must wash their face and hands.

Use respective personal protective equipment (see Section 8).

Do not use pressure to remove the product from containers. The containers are not designed for handling under pressure. Always store the product in containers made of the same material of which the original container is made.

When working, observe occupational safety and health laws.

When the operator works inside atomizing chamber, regardless of whether atomization takes place or not, it is not likely that ventilation will be sufficient to control the content of particles in the air in all cases. Under such circumstances in the process of atomization the operators must use a positive-pressure supplied-air respirator until the concentration of particles drops below MAC in the workplace air.

Storage: Store in accordance with local rules. Observe the precautions specified on the label. Store the product in tightly closed containers in dry ventilated rooms at a temperature above 0°C
Store away from oxidizers, strong alkalis, strong acids.

Do not smoke. Prevent unauthorized access. Opened containers must be re-closed well and must be stored in an upright position, in order to prevent product leakage.

Do not dispose of into the sewers

8. Exposure controls/personal protection

Engineering controls: Provide adequate ventilation. In normal operation this can be attained using local exhaust ventilation and good general ventilation. If the taken measures are insufficient to maintain the concentration of airborne particles below the limit in the workplace air, it is necessary to use a protective respirator.

Ingredient	Maximum allowable concentrations in the workplace air, mg/m ³	Hazard level
Butylprop-2-enoate	30.0/10.0	3
2,2- Oxydiethanol	10.0	3

Personal protective equipment

Respiratory system: Use a respirator with a coal and dust filter during painting with a gun (as a combination of A-P2 filters). Within limited spaces use equipment for supply of compressed or fresh air. When painting with a roll or brush, use a coal filter.

Skin and body: Personnel must use protective clothes.

Hands: When handling the product for a long time or repeatedly, use rubber gloves worn on top of cotton ones.

To safeguard the skin against action of the product, protective pastes can be used, but it is forbidden to use them after the action of the product upon the skin.

To properly choose the gloves that would correspond to the required chemical resistance and permeability, request consultation of the glove manufacturer

Eyes: Use protective glasses preventing liquid splashes from getting into eyes.

9. Physical and chemical properties

Physical state: Medium-viscosity mass

Odor: characteristic

Color: Black, gray

Density: 1.2-1.3 g/cm³

Dilutant: water

10. Stability and chemical activity

The primer is stable provided storage and transportation conditions are complied with.

No reactive power is present.

11. Toxicity

The toxicological characteristic of the primer is accounted for by the toxicities of the substances of which it is comprised.

To get detailed information, see Sections 2 and 15.

The action of vapors of the components of the primer when their concentrations exceed MAC in the workplace air can have unfavorable effects on human health such as irritation of mucous membranes and respiratory system. Repeated or protracted contact with the preparation can defat the skin, which in its turn brings forth non-allergic contact dermatitis and eczemas. When splashes of the primer get into the eyes, they can cause eye irritation and reversible damage. Allergic reactions are possible.

The dried-up coating has no harmful effects on human organism.

12. Environmental impact

Do not discharge into drainage channels or water courses.

Environmental contaminants: butylprop-2-enoate

13. Disposal and/or removal of waste (residues)

Any residual primer, used containers, cleaning material, cleaning waste are to be collected into special containers and sent for elimination to special enterprises having a permission and license to process waste, or sites approved by sanitary authorities.

14. Transport information

Transport name: Primer Unikor- K

Transport types: Transported on all types of covered transport.

Manipulation signs: "Temperature limit", "Tight packing"



Transportation in accordance with ADR/RID, IMDG/IMO and ICAO/IATA and local rules.

15. International and national legislation**National legislation**

Laws of the Russian Federation: Subject to the laws of the Russian Federation:

"On Sanitary and Epidemiologic Well-Being of the Population"

"On Protection of the Environment"

Documentation regulating requirements for human and environmental protection Safety and health certificate issued by the State Sanitary and Epidemiological Service of the Russian Federation for Saint Petersburg.

environmental protection (certificates):

International legislation:

EU Rules: This product is classified and labeled EU upon delivery in accordance with Directive 1999/45/EC.

Warning marks: S23 – Do not inhale vapors / mist.

S38 – When ventilation is inadequate, use the respective respirator equipment.

S36/37/39 – Use respective protective clothes, gloves, and eye protection.

S51 – Use only in well ventilated areas.

16. Additional information

The product should not be used for purposes different from those specified in the technical description of the product.

Restrictions on use: None

Full text of references given in R 20/21 – Hazardous when inhaled and upon contact with skin.

Section 2: R36/38 – Has an irritant action on eyes and skin.

R66 – Repeated exposure can cause dryness or cracking of skin.

-----End of translated document-----

-----Конец перевода документа-----

This is to certify that the above is a true, accurate and complete translation.

Настоящим подтверждается, что выполненный перевод является правильным, точным и полным.



Individual Entrepreneur

Индивидуальный предприниматель
position/ должность

Zh.L. Manukian

Манукян Ж.Л.
full name/ ФИО

Seal:

/SAINT PETERSBURG *

INDIVIDUAL ENTREPRENEUR ZHANNA LIPARITOVNA MANUKIAN

OGRNIP 319784700193195/