

**KAPEKS****MATERIAL SAFETY DATA SHEET**

MSDS have been prepared in according to regulation of Registration, Evaluation, Authorization and Restriction of Chemicals, App-2 (23.06.2017-30105 official newspaper)

Product: Kapeks 750 Plus**MSDS Number** : GBF-022
Date of Issue : 16.03.2023
Rev. Number : 01
Rev. Date : 19.01.2026
Page Number : 1/10**1. PRODUCT AND COMPANY IDENTIFICATION****1.1. Product Identification** : KAPEKS 750 Plus**1.2. Usage of Product** : Water-resistant booster-sensitive emulsion explosives for mining industry**1.3. Name of Producer** : Kapeks Kimya Sanayi A.S.
Isci Blokları Mah. Mevlana Bulv. Ege Plaza Is Merkezi
No:182B Kat:22 No:100 Cankaya/Ankara/TURKEY**Phone** : +90 312 473 74 88**Fax** : +90 312 473 61 51**E-mail** : kapeks@kapeks.com.tr**1.4 Emergency Phone Number****Company information center** : +90 312 473 74 88 +90 376 518 26 53**Emergency Health Services** : 112**National Poison Information Center** : 114**2. HAZARDS IDENTIFICATION****2.1. Classification of the Mixture****2.1.1. Hazard Classification**

Regulation on Classification, Labelling and Packaging of substances and mixtures;

Explosive 1.1- H201: Explosive; mass explosion damage

Eye Damage Cat.2 – H319: Causes serious eye irritation

2.2 Label Elements**2.2.1. Labelling****Hazard Pictograms:****Warning Sign:** Danger**Hazard Statement;**

H201 : Explosive; mass explosion damage

H319 : Causes serious eye irritation

Precautionary Statements Precaution;

P210 : Keep away from heat / sparks / flames / hot surfaces.- Smoking isn't allowed

P230 : Keep wet

P240 : Put the container and outside packaging on the ground and connect

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P250 : Do not expose to grinding / shock / friction
P264 : After handling wash thoroughly your place that contact with the material
P280 : Wear protective gloves / protective clothing / eye protection / face protection

Precautionary Statements Intervention;

P370+P380 : In case of fire evacuate the area
P372 : In case of fire risk of explosion
P373 : If fire reaches explosives DO NOT FIRE RESPONSE
P305+P351+P338 : IN CASE OF EYE CONTACT: Rinse with water several minutes, remove contact lenses, continue rinsing
P337+P313 : If eye irritation is permanent: medical advice / attention

Precautionary Statements Storage;

P401 : Store in appropriate storage conditions

Precautionary Statements Disposal;

P501 : Dispose the contents and container according to the procedure with the expert control

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1.Substances: Not applicable.

3.2. Mixtures:

| Substance | %(w/w) | CAS No | EC No | CPL -Classification |
|--------------------|--------|------------|-----------|--|
| Sodyum Nitrit | < 1 | 7632-00-0 | 231-555-9 | Ox. Solid 3-H272 Acute Tox.3-H301 Aquatic Acute 1-H400 Eye Irr. 2- H319 |
| Sodyum Tiyosiyanat | < 1 | 540-72-7 | 208-754-4 | Acute Tox.4-H302-H312- H332 Eye Irr. 2- H319 Aquatic chronic 3-H412 |
| Mikrokristalin Mum | < 5 | 63231-60-7 | 264-038-1 | Not classified as dangerous. Eye Irr. 2-H319 Not classified as dangerous. |
| Parafinik Mum | < 5 | 8002-74-2 | 232-315-6 | Not classified as dangerous. |

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| | | | | |
|------------------------|------|-----------|-----------|---|
| Mineral Yağ | < 1 | 8042-47-5 | 232-455-8 | Asp. Tox.1-H304 |
| Asetik asit | < 1 | 64-19-7 | 200-580-7 | Flamm. Liquid 3; H226 Skin Irr. 1B; H314 |
| Sodyum asetat anhidrit | < 1 | 127-09-2 | 204-823-8 | Not classified as dangerous. |
| Emülgatör | < 5 | | | Acute Tox. Inh. Cat.4-H332 Acute Tox. Skin Cat.4-H312 Acute Tox. Oral Cat.4-H302 Eye Irr. Cat.2-H319 |
| Amonyum Nitrat | < 80 | 6484-52-2 | 229-347-8 | Ox. Solid 3-H272 Eye Irr. 2-H319 |

Additional informations: All hazard statements are given in section 16.

4. FIRST AID MEASURES**4.1 Description of first aid measures**

Ingestion : The mouth is rinsed with water. Should drink plenty of water, even in case of vomiting should be given more water and medical attention must be done

Eye contact : Should be washed with cold water for 15 minutes and medical attention should be done

Skin Contact : Clothes should be removed and washed before wearing again. The area which is in contact with the product it should be washed with soap and water and incase of continuation of symptoms medical attention should done

Inhalation : N/A

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : None

Clinical Advices : If taken in excess through the mouth patient must be vomiting

4.3 Indication of any immediate medical attention and special treatment needed

Not applicable.

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5. FIRE - FIGHTING MEASURES**5.1. Extinguishing Media**

Do not tackle fires involving explosive.

5.2. Special hazards arising from the product

Explosive material. Keep away from sources of ignition. There is a risk of explosion by friction, shock, fire and other sources of ignition.

5.3 Advice for fire-fighters:**Advice for Fire Fighting:**

If product is on fire, all personnel be should evected from area immediately to a safe location. There is a high probability of explosion of the product in fire. Do not tackle fires involving explosives. If the product is not under fire, but under the influence of an existing fire or heat, the risk of heating should be prevented by cooling the product with water.

Extinguishing Media Not to be used : All other media
Exposure Hazards : ---
Resulting Gases : Nitrous fumes, ammonia, water vapour, carbon dioxide, carbon monoxide, nitrogen
Combustion Products : Nitrogen, carbon dioxide, water vapour, ammonia, carbon monoxide
Protective Equipment for firefighters : As HAZCHEM (Hazardous Chemicals)/UN 0241 requirements

6. ACCIDENTAL RELEASE MEASURES**6.1. Personel Precautions;**

Removal of Ignition Sources : Yes
Provide Adequate Ventilation : No
Provide Respiratory Protection : Only in fire situation
Control Dust : N/A
Prevent Eye and Skin Contact : Yes

6.2. Environmental Precautions;

Keep away from drains : Yes
Keep away from groundwater : Yes
Keep away from soil : Yes
Alert Neighbourhood : N/A

6.3. Clean Up Methods;

Use absorbent material : No, collect spills with proper collection instruments
(It will be collected in heavy-duty plastic bags or in drums labeled according to the destruction)

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Use binder : No
Dilute with water : No
Never use with : Never use with copper, zinc and brass instruments
Neutralise with : N/A
Safe Handling : Use protective gloves
Ventilation : N/A
Dust : N/A
Aerosol Effects : N/A
Fire : See local emergency procedures or Section 5

7. HANDLING AND STORAGE

7.1 Precautions For Safe Handling

Transport : The product should be transported in accordance with local and national regulations. It is forbidden to smoke, weld, or approach the product with fire near the product. Keep away from sources of ignition.

Do not stay in residential areas during transportation. Protect against heat. It should not be transported together with flammable materials and other types of classified explosives.

7.2 Conditions For Safe Storage, Including Any Incompatibilities

Storage: Store in a cool, dry and well-ventilated magazines. Storage should be in accordance with local/national regulations. Seek appropriate advice if operating outside the temperature range of -15 °C to +35 °C about the products. It will not be affected by humidity under normal climatic conditions with proper packaging in accordance with the regulation. Do not allow any works that will cause fire or sparks and no smoking. It should not be stored together with other types of classified explosives, flammable materials and igniters.

Keep away from strong shocks.

Inappropriate Substances: It should not be stored together with the detonators.

Electrical Equipment: It should be selected in appropriate electrical classification.

Static Electricity: Not applicable.

Quantity Limits: Must be as stated in the licenses

7.3 Specific Precautions on Storage

Not applicable.

8. EXPOSURE CONTROLS / PERSONEL PROTECTION

8.1 Control Parameters

Not applicable.

8.2 Occupational Exposure Limits

8.2.1. Appropriate Engineering Controls

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Handle in accordance with industrial hygiene and safety rules. Wash your hands before breaks and at the end of the day.

8.2.2. Personal Protective Measures

Respiratory Protection : Not needed during transport. Consider that gases containing CO₂, CO and NO_x will be formed in the smoke after ignition during use.
Hand Protection : Use protective gloves suitable for the job
Eye Protection : Use safety glasses suitable for the job
Skin Protection : Use protective clothing suitable for the job

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on Basic Physical and Chemical Properties**

Appearance and Physical form : Putty-like consistency containing dispersed prills
Colour : White
Odour : None
pH of substance/solution : 4.00
Boiling point/boiling range : N/A
Melting point/melting range : N/A
Flash Point : N/A
Flammability(solid/gas) : Non flammable
Ignition : N/A
Explosive properties : High, mass explosion damage
Oxidising properties : Medium
Vapour pressure : N/A
Relative Density : Range 1,24-1,26 g/cm³
Solubility : None (water resistant)
Mixibility : Immiscible
Evaporation Rate : N/A
Conductivity : N/A
Viscosity : Solid
Explosion Limits : Velocity of detonation 4000 m/s (Ø75 mm, unconfined)

9.2. Other informations:

Not applicable.

10. STABILITY AND REACTIVITY**10.1. Reaction**

Avoid ignition sources.

10.2. Chemical Stability:

Explosive material. It is stable under appropriate storage conditions.

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10.3. Possibility of hazardous reactions:**10.4. Conditions to avoid:**

Temperature : Storage temperature above 35 °C should be avoided. This is a precaution to ensure appropriate shelf life

Pressure : N/A

Light : N/A

Impact : N/A

Friction : N/A

Ignition : N/A

Water : No

Air : No

Acids : Yes

Bases/Alkalis : Yes

Oxidisers : Yes

Specific Substances : N/A

Stabilisers required : No

Exotherm possible : Yes

Physical appearance change : Hardening or crystallisation with storage

Contact with water : No effect

Degradation to unstable : Not under normal conditions of use

10.6. Harmful Decomposition Products

When the explosive detonates, fumes of carbon oxides and nitrogen oxides may be formed.

11. TOXICOLOGICAL INFORMATION

Inhalation : N/A

Ingestion : Harmful if swallowed

Dermal : Mild irritant

Eye Contact : Yes

Sensitiser : Possible to skin

Carcinogen : No

Mutagenic : No

Narcotic : No

Terotogenic : No

Toxic : No

12. ECOLOGICAL INFORMATION**Mobility;**

Known or predicted distribution to environmental compartments : No

Surface Tension : High

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| | |
|---|------------|
| Absorption/desorption | : Low |
| Other relevant physical properties | : No data |
| Degradability; | |
| Biotic and abiotic degradation | : Harmless |
| Aerobic and anaerobic degradation | : Yes |
| Persistence | : Moderate |
| Accumulation; | |
| Bioaccumulation potential | : Low |
| Biomagnification | : Low |
| Short/Long Term Effects; | |
| Ecotoxicity | |
| Aquatic organisms | : Low |
| Soil organisms | : Low |
| Plants and terrestrial animals | : Low |
| Other adverse effects | |
| Ozone depletion potential | : Low |
| Photochemical ozone creation | : Low |
| Global warming potential | : Low |
| Effects on waste water treatment plants | : None |

An initial data search has established that there is little or no environmental or ecological effects data available on this product.

13. DISPOSAL CONDITIONS**13.1. Waste treatment methods**

Waste generation should be minimized or avoided as much as possible. Disposal of explosives must be carried out by suitably qualified personnel. If necessary, it should be reported to the relevant legal authorities. The manufacturer must be contacted for the application.

14. TRANSPORT INFORMATIONS

| | |
|------------------------------|---------------------|
| UN Name | : Explosive, Type E |
| UN Number | : UN 0241 |
| IMDG (sea) Code/Class | : 1.1 D |
| Packing Group | : - |
| RID/ADR (road/rail) | : 1.1 D |
| Packing Group | : - |

In transportation of explosive materials must be considered compliance with the requirement of Regulation No. 87/12028 or if needed international hazardous materials packaging agreements.

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15. REGULATORY INFORMATIONS**15.1. Safety, health and environmental legislation specific to the substance or mixture**

- Regulation on the compilation of safety data sheets of the Dangerous Substances and Preparations
- Regulation on Classification of Dangerous Substances and Preparations, Packaging and Labelling
- Regulation on Classification, Labelling and Packing of substances and mixtures
- Regulation on the Safety Data Sheets of Hazardous Substances and Mixtures
- Regulation on Registration, Evaluation, Authorization and Restriction of Chemicals
- Regulations on the Transport of Dangerous Materials by highway
- Regulation no 87/12028

16. OTHER INFORMATIONS**Hazardous Phrases;**

H226 : Flammable liquid and vapor
H261 : Diffuse flammable gases upon contact with water
H272 : It can strengthen the fire, oxidizing
H301 : Toxic if swallowed
H302 : Harmful if swallowed
H304 : If respiratory tract influenced and swallowed fatal
H312 : Harmful in contact with skin
H314 : Cause serious skin burns and eye damage
H319 : Cause serious eye irritation
H332 : Harmful by inhalation
H400 : It is very toxic in aquatic environments
H412 : In the aquatic environment, long persistent, harmful effects

Key Information Sources;

This material safety data sheet is prepared based on informations received from KAPEKS KIMYA SANAYI A.S.

Revision: 01

A statement has been added indicating that the Safety Data Sheet (SDS) was prepared within the scope of the Regulation on the Registration, Evaluation, Authorization and Restriction of Chemicals.

Article 3.2 Mixing ratios and classes have been reviewed, and the surfactant class has been changed to non-hazardous.



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