

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

MSDS have been prepared in according to regulation of safety data sheets on hazardous substances and mixtures (13.12.2014-29204 official newspaper)

Product: Kapeks ANFO**MSDS Number** : GBF-001
Date of Issue : 11.05.2016
Rev. Number : 01
Rev. Date : 31.10.2018
Page Number : 1/6**1. PRODUCT AND COMPANY IDENTIFICATION**

Product Identification : Kapeks ANFO
Usage of Product : Used for main charge on surface blasting (Recommended for dry holes)
Name of Producer : Kapeks Uretim Patlayıcı Maddeler Tic. Ltd. Sti.
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
Emergency Phone Number : +90 312 473 74 88 +90 376 518 26 53
National Poison Information Center : 114
Emergency Health Services : 112

2. HAZARDS IDENTIFICATION**Classification of the Mixture**

Regulation on the Classification Packaging and Labelling of Dangerous Substances;
E;R2 : Explosives, shock, friction, fire or explosion risk in contact with other sources of ignition
E;R3 : Serious explosion risk in contact with shock, friction, flames and other ignition sources
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
Carcinogenic Cat.2 – H351: Suspected to cause cancer

Labelling Elements**Warning Sign:** Danger**Hazard Statement;**

H201 : Explosive; mass explosion damage
H319 : Causes serious eye irritation
H351 : Suspected to cause cancer

Precautionary Statements Precaution;

P201 : Read special instructions before use
P202 : Do not handled without reading and understanding all precautionary statements
P210 : Keep away from heat / sparks / flames / hot surfaces.- Smoking isn't allowed



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MSDS Number : GBF-001
Date of Issue : 11.05.2016
Rev. Number : 01
Rev. Date : 31.10.2018
Page Number : 2/6

- P230 : Keep wet
- P240 : Put the container and outside packaging on the ground and connect
- 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
- P281 : Use personal protective equipment

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
- P308+P313 : The exposure and interact: medical advice / attention
- P337+P313 : If eye irritation is permanent: medical advice / attention

Precautionary Statements Storage;

- P401 : Store in appropriate storage conditions
- P405 : Store under lock and key

Precautionary Statements Disposal;

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance	%(w/w)	CAS No	EC No	CPL- Classification	CLP-Classification
Amonium Nitrate	> 90	6484-52-2	229-347-8	O;R8 Xi;R36	Ox. Solid 3-H272 Eye Irr. 2-H319
Fuel Oil	> 5	68334-30-5	269-822-7	Car. Cat.3; R40	Canc. Cat. 2-H351
Paint	< 1	85-83-6	201-635-8	Not classified as dangerous	Skin Irr. 2-H315 Eye Irr. 2-H319

4. 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



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Date of Issue : 11.05.2016
Rev. Number : 01
Rev. Date : 31.10.2018
Page Number : 3/6

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

Symptoms : None

Clinical Advices : Treatment should be done as exposure to nitrate. High exposures may cause meta-hemoglobin, influence of muscle relaxants it may cause hypertension

5. FIRE - FIGHTING MEASURES

Product Specific Hazards : Keep away from all sources of ignition.

Recommendations for Fire Fighting : When fire is not reach the explosive, if it is possible explosive material can be moved on a safe distance, if the product began to burn DO NOT FIRE-FIGHTING and all staff should be collected in a safe place. There is a risk of explosion on burning product. If there is a risk of overheating of the product, it must be cooled with cold water. If water mixed with contaminated explosives and goes thru water drainage lines, concerned people should be warned immediately. If the explosive buning in a closed area carbon monoxide or nitrogen oxide gas will be formed. Brown fumes, indicates the presence of toxic nitrogen gas.

6. ACCIDENTAL RELEASE MEASURES

Personel Precautions : Eliminate sources of ignition. Provide personal protection eye, skin and respiratory. Keep away unprotected personnel from the field.

Environmental Precautions: Keep the material away from drainage canals, waste, the soil and underground waters.

Cleaning Methods : Spilled material should collect with appropriate collection tools (shovel, broom), preserve defined package. Never use with copper, brass, iron or steel units.

7. HANDLING AND STORAGE

Safe Handling Precautions : Keep away from shock and impact. Dust formation should be avoided. It should not be allowed contact with skin.

Fire Prevention : It must be referred to the local emergency procedures.

Storage Precautions : In accordance with the provisions of regulations were legal permission, dry and well. It should be kept in ventilated.

Incompatible materials : Do not store with detonators. Combustible and reducing substances should be kept away.

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

Quantity Limits : As defined in statutory licence.

Shelf Life : It is recommended to consume within 1 year from production date.



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MSDS Number : GBF-001
Date of Issue : 11.05.2016
Rev. Number : 01
Rev. Date : 31.10.2018
Page Number : 4/6

8. EXPOSURE CONTROLS / PERSONEL PROTECTION

Respiratory Protection : N/A
Hand Protection : If dispersed product present wear gloves
Eye Protection : Avoid contact with eyes
Skin Protection : Avoid contact with skin

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Physical form : Prill shaped spherical granules / pink color / smell of diesel
Colour : Pink
Odour : Smell of diesel
pH of substance/solution : N/A
Boiling point/boiling range : N/A
Melting point/melting range : N/A
Flash Point : > 61 °C
Explosive properties : High, mass explosion damage
Oxidising properties : High
Vapour pressure : N/A
Relative Density : Range 0,75-0,85 g/cm³
Solubility : Soluble in water relatively
Mixibility : Immiscible
Evaporation Rate : N/A
Conductivity : N/A
Viscosity : Solid
Explosion Limits : Velocity of detonation 3000-4500 m/s

10. STABILITY AND REACTIVITY

This material is stable under normal conditions

Conditions to Avoid;

Temperature : High (>650°C)
Pressure : N/A
Impact : N/A
Friction : N/A
Ignition : N/A

Substances to Avoided;

Water : Yes
Acids : Yes
Bases/Alkalis : Yes
Oxidisers : Yes, strong oxidizing factors
Specific Substances : Fuel, reducing agents, zinc, copper and its alloys, chlorides



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Rev. Number : 01
Rev. Date : 31.10.2018
Page Number : 5/6

Decomposition : Exotherm may occur over 240 ° C degrees. Materials caking / hardening. Soluble in contact with water

11. TOXICOLOGICAL INFORMATION

Used according to the material safety data sheet do not expect any adverse health effect. Hazards that may result in incorrect use of the product, the symptoms and treatment given at topic 4.

Long Term Effects: Fuel-oil in the product contains low quantity of polsiklik aromatic carbon chain, long term working and contact with products under poor hygiene conditions have been found to cause cancer.

12. ECOLOGICAL INFORMATION

Waste should be prevented to accumulate in the drainage channel.

13. DISPOSAL CONDITIONS

Waste Disposal : The contaminated material is to be placed down a borehole to be utilized as part of the blast

Waste disposal for others;

Substance : Burning or detonation under controlled conditions
Mixture : With combustion procedure made by expert person
Contaminated Packaging : Controlled burning accordig to procedures

Disposal Methods;

Incineration : Open burning in small quantities within licenced area under supervision by expert person
Recycling : No
Flush : No

14. TRANSPORT INFORMATIONS

UN Name : Explosive, Type B
UN Number : UN 0082
IMDG (sea) Code/Class : 1.1 D
Packing Group : -
RID/ADR (road/rail) : 1.1 D
Packing Group : -

In trasportation 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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Rev. Number	: 01
Rev. Date	: 31.10.2018
Page Number	: 6/6

15. REGULATORY INFORMATIONS

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
Regulations on the Transport of Dangerous Materials by highway
Regulation no 87/12028

16. OTHER INFORMATIONS**Risk Phrases;**

R8 : It may cause fire in contact with combustible material
R36 : Irritating to eyes
R40 : Limited evidence of a carcinogenic effect

Hazardous Phrases;

H272 : It can strengthen the fire, oxidizing
H315 : Cause skin irritation
H319 : Cause serious eye irritation
H351 : Suspected to cause cancer

Key Information Sources;

This material safety data sheet is prepared based on informations received from KAPEKS ÜRETİM LTD. ŞTİ.

Revision:

First Issue. This material safety data sheet is prepared regarding to the 13.12.2014 dated and 29204 number of Regulation on Safety Data Sheets of Hazardous Substances and Mixtures.

Prepared by:

Name Surname: Ayşe Merve Doğan

Contact Informations: merve.dogan@kapeks.com.tr

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