

**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 750**MSDS Number** : GBF-012
Date of Issue : 09.06.2016
Rev. Number : 01
Rev. Date : 31.10.2018
Page Number : 1/7**1. PRODUCT AND COMPANY IDENTIFICATION**

Product Identification : Kapeks 750
Usage of Product : Water-resistant booster-sensitive emulsion explosives for mining industry
Name of Producer : Kapeks Uretim Patlayıcı Maddeler Tic. Ltd. Sti.
Isci Blokları Mah. Mevlana Bulv. Ege Plaza Is Merkezi
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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;

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
 P281 : Use personal protective equipment

Precautionary Statements Intervention;

- 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
 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

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	< 82	6484-52-2	229-347-8	O;R8 Xi;R36	Ox. Solid 3-H272 Eye Irr. 2-H319
Mineral Oil	< 2,6	8042-47-5	232-455-8	-	Asp. Tox.1-H304
Surfactant	< 1,2	-	-	Xn;R22 Xi;R36/R37/38	Acute Tox. Inh. Cat.4-H332 Acute Tox. Skin Cat.4-H312 Acute Tox. Oral Cat.4-H302 Eye Irr. Cat.2-H319
Fuel Oil	< 2,5	68334-30-5	269-822-7	Car. Cat.3; R40	Canc. Cat. 2-H351
Sensitizing	< 0,2	-	-	F;R11	Flame.Solid.2,H228

4. FIRST AID MEASURES

- Ingestion** : The mouth is rinsed with water.

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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.

Ihalation : It does not cause chemical exposure.

5. FIRE - FIGHTING MEASURES

Fire Extinguishing Agent : Immediately apply plant emergency evacuation plans. All personnel should be evacuated to a predetermined safe area at least 800 meters.

Fire Hazard : Fire may cause explosion on the area. Burning material may remove toxic vapors.

Explosion Hazards : There is a risk of explosion by shock, friction, fire or other sources of ignition.

Hazardous Combustion Products : Nitrogen Oxides (NOx), carbon monoxide (CO), ammonia, carbon dioxide (CO2), nitrogen (N2).

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions : Avoid contact with eyes, skin and clothing. Do not smoke. Eliminate any ignition sources of any kind.

Protective Equipment : Completely closed protective eyewear appropriate edges, appropriate nitrile gloves, work clothes, work shoes use.

Environmental precautions: Try to stop the leak without being exposed to any dangers. Avoid contaminating sewers and drinking water. Inform the authorities in case of mix sewer or underground water.

Emergency Procedure : Remove from media sources of ignition.

Cleaning Method : Keep away from all ignition sources. If there is no contamination of the product, it should attempt to retrieve a clean container. Remaining material should be mixed with sand and used in blasting operations or burn with expert.

Related Sections : Section 8 and 13 for additional information.

7. HANDLING AND STORAGE

Precautions for Safe Use : Appropriate nitrile gloves should be used. Smoking and hot work (welding, cutting, etc ...) in the application area should be prohibited. Do not mix with any chemicals.

Warnings to protect against fire and explosion : Prevent uncontrolled contact with the material are incompatible with each other. Avoid contact with flames, shock, friction and other ignition sources. Keep fire fighting equipment ready for.

Shelf Life: The shelf life of this product is 1 year.

Storage;

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Looking for storage areas and Packaging Specifications: It should be stored according to regulations. Storage areas should be dry and be sure that there is natural ventilation. Smoke, fire, hot work (welding, cutting, drilling) should be banned. Store the mixture in the original pack. Magazine must be lockable. Unauthorized persons should not be enter.

Common Storage Storage Related Alerts : Follow the general rules of storage chemicals. Storage material according to hazardous materials storage matrix.

**8. EXPOSURE CONTROLS / PERSONEL PROTECTION****Personal Protection Equipment;**

Respiratory Protection : These products do not cause chemical exposure under normal use conditions.

Hand Protection : Chemical resistant gloves (EN 374).

Eye Protection : Eye protection glasses with side shields should be used (EN 166).

Safety and Hygiene Precaution : Use according to industrial hygiene and safety precaution. Do not inhale. Keep away from food, drink and animal feed. Do not eat, drink or smoke. Immediately remove contaminated clothes. Hands and face should be washed after the break and before the end of the shift.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Physical form : Emulsion gel
Colour : Light red
Odour : N/A
pH : N/A
Melting Point : N/A
Boiling Point : N/A
Freezing Point : N/A
Density : 1,24 to 1,28 g / cm³
Viscosity @ 40 °C : 80.000-120.000 cP
Resolution : Not Soluble

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Page Number : 5/7**Decomposition Temperature** : Ammonium Nitrate: 210 ° C (410 ° F)
Vapor Pressure : N/A
Oxidation Features : Decomposition is a powerful oxidant
Explosion Feature : Explosives, mass explosion damage
Explosion Data Explosion speed : 4500-5000 m/s (125 mm cartridge exposed)
Static Explosion Data : Not Sensitive Electrical Sensitivity
Explosion Data Impact : Not Sensitive Sensitivity**10. STABILITY AND REACTIVITY****Stability** : Stable under normal temperatures and pressures.
Reactivity : Stable at normal conditions. Risk of explosion contact with fire or high-energy shock. Do not mix with chemicals.
Conditions to Avoid : Keep away from sources of heat, flames and shock.
Incompatible Chemicals : Corrosive (strong acids and strong bases or alkeran), strong oxidizing agents, reducing agents.
Hazardous Combustion Products : Nitrogen Oxides (NO_x), carbon monoxide (CO), ammonia, carbon dioxide (CO₂), nitrogen (N₂).**11. TOXICOLOGICAL INFORMATION****Acute Toxicity** : Not classified
Irritation: Not irritating to skin. Eye contact can cause severe irritation
Fatal or Skin Sensitisation : Not classified
Carcinogenicity : There is doubt on causing cancer. There is no conclusive evidence.
Specific Target Organ Toxic : Not classified
Reproductive Toxicity : Not classified
Aspiration Loss : Not classified
Additional information on toxicology;
Fuel Oil (68334-30-5)
LD50 oral (Mouse) : > 5000 mg / l
Leather LD50 (Rabbit) : > 2000 mg / l
Inhalation LC50 (mouse) : 4.6 mg / l 4h
Ammonium Nitrate (6484-52-2)
Oral LD50 (mouse) : 4500 mg / kg
Oral LD50 (mouse) : 2800 mg / kg
Inhalation LC50 (4 hr.) (Mouse) : > 88.8 mg / l
Mineral Oil (8042-47-5)
LD50 oral (Mouse) : > 5000 mg / kg
LD50 Skin (rabbit) : > 2000 mg / kg

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12. ECOLOGICAL INFORMATION

Ecotoxicity : Not regarded as dangerous for the environment
Mobility : The product does not mix with water. Do not spread in the aquatic environment
Bioaccumulation potential : There is no data about biological accumulation
Additional Info About Environment Ecology;
Fuel Oil (68334-30-5)
LC50 (96h) fish : 54 mg/l (Joordanell Florida)
EC50 (48h) Daphnia : 3.4 mg/l (Palaemonetes Pugio)
Ammonium Nitrate (6484-52-2)
LC50 (48h) fish : 1,15 – 1,72 mg NH₃/L (Cyprinus Carpio)
Aquatic Invertebrates EC50 : 555 mg/L (Daphnia magna)
Algae EC50 : 83 mg/l (Scenedesmus quadricauda)
Mineral Oil (8042-47-5)
LL50 Fish (96h) : > 2000 mg/kg (Lepomis macrochirus Rafiresqua)
Fish LC50 (96h) : > 10 g/l (Lepomis macrochirus)

13. DISPOSAL CONDITIONS

General Disposal Information : Waste must be disposed in accordance with local regulations.
Safe Disposal : Explosive waste must be disposed in blasting holes on mines or it must be disposed by burning in the explosives test site.

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.

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

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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 : Contact with combustible material may cause fire
R11 : Highly flammable
R22 : Harmful if swallowed
R36 : Irritating to eyes
R36/37/38 : Irritating to eyes, respiratory system and skin irritant
R40 : Limited evidence of a carcinogenic effect

Expressions harmfulness;

H228 : Flammable solid
H272 : Can strengthen fire, oxidizing
H302 : Harmful if swallowed
H304 : Fatal if penetrate the respiratory tract and swallowed
H312 : Harmful in contact with skin
H319 : Causes serious eye irritation
H332 : Harmful if swallowed
H351 : There is doubt lead to 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.

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