

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 Nova 55 MSDS Number : GBF-004 Date of Issue : 11.05.2016

Rev. Number : 01

Rev. Date : 31.10.2018

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1. PRODUCT AND COMPANY IDENTIFICATION

Product Identification: Kapeks NOVA 55

Usage of Product : Cap sensitive emulsion explosive used for blasting in tunnel and

mining operations

Name of Producer : Kapeks Uretim Patlayıcı Maddeler Tic. Ltd. Sti.

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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

Labelling Elements





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

P250 : Do not expose to grinding / shock / friction



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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

Substance	%(w/w)	CAS No	EC No	CPL- Classification	CLP-Classification
Sodium Nitrate	> 9	7631-99-4	231-554- 3	O;R8	Ox. Solid 3-H272
					Eye Irr. 2- H319
Sodium Nitrite	< 1	7632-00-0	231-555-9	O;R8 T;R25 N;R50	Ox. Solid 3-H272
					Acute Tox.3-H301
					Aquatic Acute 1-H400
					Eye Irr. 2- H319
Sodium Thiocyanate	< 1	540-72-7	208-754- 4	R20/21/22	Acute Tox.4-H302-H312-
					H332
				R32	Eye Irr. 2- H319
				R52/53	Aquatic chronic 3-H412
Microcrystalline Wax	< 5	63231-60-7	264-038-	Not classified as	Not classified as dangerous.
			1	dangerous.	Eye Irr. 2-H319
Paraffine Wax	< 5	8002-74-2	232-315-	Not classified as	Not classified as dangerous.
			6	dangerous	
Mineral Oil	< 1	8042-47-5	232-455-		Asp. Tox.1-H304
			8		
Acedic acid	< 1	64-19-7	200-580-	C;R34	Flamm. Liquid 3; H226
			7		Skin Irr. 1B; H314
Sodium acetate Anhydr.	< 1	127-09-2	204-823-	Not classified as	Not classified as dangerous.
				dangerous	
			8		



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Surfactant	> 1			R22 R36/37/38 S1/2,S45,S61,S36/37/39	Acute Tox. Inh. Cat.4-H332 Acute Tox. Skin Cat.4-H312 Acute Tox. Oral Cat.4-H302 Eye Irr. Cat.2-H319
Aluminum	1-5	7429-90-5	231-072-	F;R15,R17	Pirofobik solid 1- H250 contact with water release flammable gas 2- H261
Amonium Nitrate	70-80	6484-52-2	229-347- 8	O;R8	Ox. Solid 3-H272
				Xi;R36	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

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

5. FIRE - FIGHTING MEASURES

Extinguishing Media : If product is on fire, all personel should remove from area immediately and send personel to a safe location some distance away from the fire. High risk of explosion if involved in fire. DO NOT TACKLE FIRES INVOLVING EXPLOSIVES LOADS. Large quantities of water may be used for cooling purposes if product is at risk from fire/heat.

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/UN 0241 requirements



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6. ACCIDENTAL RELEASE MEASURES

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

Environmental Precautions;

Keep away from drains: YesKeep away from groundwater: YesKeep away from soil: YesAlert Neighbourhood: N/A

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)

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

 $\begin{array}{lll} \mbox{Ventilation} & : \mbox{N/A} \\ \mbox{Dust} & : \mbox{N/A} \\ \mbox{Aerosol Effects} & : \mbox{N/A} \\ \end{array}$

Fire : See local emergency procedures or Section 5

7. HANDLING AND STORAGE

Incompatible materials: Do not store with detonators

Temperature : - 15 °C to +35°C. Seek appropriate advice if operating outwith

these temperatures

Humidity : With proper packaging with regulation will not affect the normal

climate conditions

Electrical Equipment : It should be selected in appropriate electrical classification

Static electricity: N/A

Quantity Limits : As defined in statutory licence

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

8. EXPOSURE CONTROLS / PERSONEL PROTECTION

Respiratory Protection : N/A



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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: 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 1,16-1,18 g/cm³ **Solubility** : None (water resistant)

Mixibility : Immiscible

Evaporation Rate : N/A
Conductivity : N/A
Viscosity : Solid

Explosion Limits : Velocity of detonation 4800-5900 m/s

: No

10. STABILITY AND REACTIVITY

Conditions to Avoid;

Stabilisers required

Temperature : Strage temperature exeed 35 °C should be avoided. This is a

precaution to rnsure apropriate shelf life

Pressure : N/A : N/A Light **Impact** : N/A Friction : N/A Ignition : N/A Water : No Air : No Acids : Yes Bases/Alkalis : Yes Oxidisers : Yes Specific Substances : N/A



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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

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
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



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

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

Contamined Packaging : Controlled burning according to procedures

Disposal Methods;

Incineration : Open burning in small quantities within licenced area under

supervision by expert person

Recycling : No

Flush : If accordance with waste disposal regulations

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 trasportation 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 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



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16. OTHER INFORMATIONS

Risk Phrases;

R8 : It may cause fire in contact with combustible material R15 : It will release flammable gases when contact with water

R17 : Spontaneously flammable in air

R20/21/22 : Harmful if inhalation, in contact with skin and swallowed

R25 : Toxic if swallowed

R32 : In contact with acids release toxic gas

R34 : It causes burns R36 : Irritating to eyes

R36/37/38 : Irritates eyes, respiratory system and skin R50 : It is very toxic to aquatic organisms

R52/53 : Harmful to aquatic organisms, It may cause long-term adverse effects in the

aquatic environment

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 irritationH332 : 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 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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Certificate No: 01.166.02

Certificate validity date: 23.10.2021