SAFETY DATA SHEET
NOBELEX 6000®

It has been arranged in accordance with the provisions of the "Regulation on the Registration, Evaluation, Authorization and Restriction of Chemicals" published in the Official Gazette No. 30105 (Repeated) dated June 23, 2017.

1 SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Substance / mixture

Mixer Name : Nobelex 6000®

CAS No : Not applicable

EC No : Not applicable

KKDIK Registration Number: Not applicable

1.2. Identified Uses of the Substance or Mixture and Uses Not Recommended

Uses Identified: It is an emulsion type booster sensitive explosive for civilian use. It can be manufactured in bulk or with cartridges as per the customer's request. The product is pumpable. The product is suitable for re-pumping.

Uses not recommended: It should not be used except for industrial explosive production and blasting applications.

1.3. Details of the supplier of the safety data sheet

Manufacturer : Nitromak Dnx Kimya Sanayii A.Ş.

Address : Beştepe Mahallesi, Nergis Sokak No: 7/2-52, 06510, Yenimahalle, Ankara

Phone : +90 312 201 77 00

Fax : +90 312 201 77 02

Mail: : osmanerdem@nitromak.com

1.4. Emergency Telephone Number

Nitromak Dnx Kimya Sanayii A.Ş. : 0 312 201 77 00
Work Hours : 08:00 – 17:30 (weekdays)

Emergency Call Center : 112

National Poison Information Center (NPIC): 114

2 HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixtures (28848 T.C.)

Physical and Chemical Hazards : Explosive 1.5 -H205

Health Hazards : Skin sensitisation 2-H315
Eye irritation 2- H319
STOT 3- H335
Carcinogenicity 2- H351

Environmental Hazards : Aquatic Chronic 3- H412

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2.2. Label elements

Label In Accordance with (28848 T.C.)

GHS Pictogram:

Signal Word : Danger

Hazard Statements : H205: May mass explode in fire.

H319: Causes serious eye irritation cause an allergic skin reaction.

H335: May cause respiratory irritation.

H351: Suspected of causing cancer

H412: Harmful to aquatic life with long lasting effects.

Precautionary Statements :

P201- Obtain special instructions before use.
P202- Do not handle until all safety precautions have been read and understood.
P210- Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P234- Keep only in original container.
P250- Do not subject to grinding/shock/friction.
P261- Avoid breathing dust/fume/gas/mist/vapours/spray.
P264- Wash contaminated skin or hands thoroughly after handling.
P271- Use only outdoors or in a well-ventilated area.
P273- Avoid release to the environment.
P280- Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352- IF ON SKIN: Gently wash with plenty of soap and water.
P304+P340- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P308+P313- IF exposed or concerned: Get medical advice/attention
P312- Immediately call NATIONAL POISON CENTER FROM 114 or doctor/physician.
P321- Specific treatment (see on this label).
P332+P313- If skin irritation occurs: Get medical advice/attention.
P337+P313- If eye irritation persists: Get medical advice/attention.
P362+P364- Take off contaminated clothing and wash before reuse.
P370+P372+P380+P373- In case of fire: Explosion risk! Evacuate area! DO NOT fight fire when fire reaches explosives.
P401- Store in accordance with national regulations.
P403+P233- Store in a well-ventilated place. Keep container tightly closed.
P405- Store locked up.

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P501- Dispose of contents/container to in accordance with national regulations.

2.3 Other Hazards

PBT or vPvB assessment results according to KKDIK Annex-13

PBT : Not applicable.
vPvB : Not applicable.

3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance **:** Not Applicable

3.2. Mixtures :

Name	EC No EINECS No	CAS No	Content	Hazard Class and Category Code	Hazard Statements	Other Component-Related Information
Ammonium nitrate	229-347-8	6484-52-2	70-90 %	oxidising solid 3 Skin Irritation 2 Eye irritation 2 STOT Single Exp.3	H272 H315 H319 H335	-
White mineral oil (petroleum)	232-455-8	8042-47-5	3-8 %	Not classified as hazardous.	-	One of the compounds in mineral oil.
Kerosine (petroleum); Straight run kerosine.	232-366-4	8008-20-6	3-8 %	Aspiration Hazard-1	H304	One of the compounds in mineral oil.
Distillates (Fischer-Tropsch), heavy, C18-50-branched, cyclic and linear	482-220-0	848301-69-9	3-8 %	Not classified as hazardous.	-	One of the compounds in mineral oil.
Benzene, mono-C10-14-alkyl derivs., fractionation bottoms	285-591-5	84961-70-6	3-8 %	Not classified as hazardous.	-	One of the compounds in mineral oil.
Sorbitan oleate	215-665-4	1338-43-8	0,1-1,0 %	Not classified as hazardous.	-	One of the compounds in emulsifier.
İsobutane	200-857-2	75-28-5	0-0,5 %	Extremely flammable gas 1 Liquefied gas, Compressed gas	H220 H280	One of the compounds in micro balloon.
isopentane	201-142-8	78-78-4	0-0,5 %	Flammable Liquid 1 STOT Single Exp. 3 Aspiration Hazard 1 Long-Term Aquatic 2	H224 H336 H304 H411	One of the compounds in micro balloon. EUH066
1,1-dichloroethylene;	200-864-0	75-35-4	0-0,5 %	Flammable Liquid 1 Acute toxicity 4 Carcinogenicity 2	H224 H332 H351	One of the compounds in micro balloon.

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Distillates (petroleum), hydrotreated light paraffinic; Baseoil	265-158-7	64742-55-8	0-8 %	Cans.1B	H350	Mineral oil is not classified as Canc.-1B since the manufacturer's exemption is valid.
Fuels, Diesel	68334-30-5	269-822-7	0-8 %	Flammable liquids 3 Aspiration toxicity 1 Acute toxicity 4 Skin Irritation-2 Carcinogenicity 2 STOT-RE-2 Long-term (Chronic) aquatic hazard 2	H226 H304 H332 H315 H351 H373 H411	-
Solvent naphtha (petroleum), heavy aromatic	265-198-5	64742-94-5	0-0,1 %	Aspiration toxicity 1	H304	Dye stuff

The full text of the hazard statements is given in Title 16.

About the composition

- Data has been submitted to the latest by T.C and A.B. given in accordance with the regulations

4 FIRST AID MEASURES YARDIM ÖNLEMLERİ

4.1. Description of first aid measures

General Information
No special precautions are necessary.

Inhalation
Immediately move the casualty away from the exposure area. In case of inhalation, remove casualty to fresh air.
If symptoms persist, consult a doctor.

Ingestion
Consult a doctor if a large amount is retained. DO NOT vomit! Rinse mouth immediately and remove to fresh air.
Consult a doctor if any discomfort persists.

Skin Contact
Remove affected person from contamination site. Take off contaminated clothing. Wash skin immediately with soap and water.
If symptoms occur after washing, seek medical advice immediately.

Eye Contact
Move casualty immediately away from exposure area. If there are contact lenses, they should be removed before rinsing the eyes.
Rinse eyes immediately with plenty of water, opening the eyelids. Call a healthcare professional by continuing to rinse for at least 15 minutes.

4.2. Indication of any immediate medical attention and special treatment needed

Inhalation: Irritation of upper respiratory tract.
Ingestion: Nausea, vomiting.
Skin Contact: Prolonged contact may cause redness, irritation and drying of the skin.
Eye Contact: Irritation of eyes and mucous membranes.

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4.3. Indication of need for medical attention and special treatment

No specific treatment is recommended. Treat according to symptoms.

5 FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media

It has no application. Once the fire reaches the explosives, DO NOT interfere with the fire.

Unsuitable extinguishing media

It has no application. Once the fire reaches the explosives, DO NOT interfere with the fire.

5.2. Specific hazards during firefighting

Unusual fire and explosion hazards

DO NOT interfere with the fire. Evacuate all personnel to a predetermined safe area that is at least 1,000 meters in all directions. In case of fire, it may explode or explode.

Harmful combustion products

In case of fire, toxic gases may be produced. Carbon monoxide (CO). Nitrogenous gases (NOx).

5.3. Specific extinguishing methods

In the event of a small fire, move the products away from the fire area if the fire has not reached the explosives. Prevent fire from reaching the product by using all possible firefighting equipment (water, available fire extinguishing materials)

DO NOT ATTACK FIRE WITH EXPLOSIVE MATERIAL. Evacuate all personnel to the predetermined safe zone.

Special protective equipment for firefighters

Use breathing apparatus for firefighting. Use full protective clothing.

6 ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

protective equipment

It has no application.

Emergency Procedures

It has no application.

6.1.2 For Emergency Responders

Remove persons from the danger area. Provide adequate ventilation. Use protective clothing. Protect from heat. Evacuate the space. Isolate the area and block access.

Wear protective clothing as shown in Heading 8 of this Safety Data Sheet

6.2. Environmental precautions

Avoid release to the environment. Do not allow to enter drains or waterways

6.3. Methods and materials for containment and cleaning up

Wear the necessary protective device. Extinguish all ignition sources. Avoid sparks, flames, heat and avoid smoking. Ventilate.

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6.3.1 For containment

Collect and store in containers and seal securely. Put the container in a solid/safe place.

6.3.2 For cleaning

Collect mechanically. Put them in suitable containers and send them for recycling or disposal.

6.3.3 Other information

Dispose of unused material as waste under Title 13.

6.4. Reference to other sections

For personal protection see section 8.
See Section 11 for additional information on health hazards.
For waste disposal, see section 13

7 HANDLING AND STORAGE

7.1. Advice on safe handling

Read and follow the manufacturer's recommendations. Avoid contact with skin and eyes. Protect from heat, sparks and fire. Avoid any possibility of ignition. Do not eat, drink or smoke during use. Consider necessary chemical hygiene measures Avoid jolting, rubbing and impact. Handle carefully. Use only in well ventilated areas. Do not subject to grinding / shock / friction.

Fire and explosion protection information
Protect from heat. In case of fire in the vicinity, emergency cooling should be done.

7.2. Conditions for safe storage

Requirements for magazine and containers
Store in a cool, well-ventilated and dry place. Protect from physical damage and/or friction. Do not store near excessive heat, sources of ignition or open flame. Do not store near excessive heat, sources of ignition or open flame. Combustible/flammable – keep away from oxidizers, heat and flames. Do not store near producing areas, do not expose to high temperatures. Keep away from strong shocks.

Information about storage in a single shared storage facility
Keep away from food, drink and animal feed.

Additional information on storage conditions
Store in cool, dry conditions in tightly closed containers. Keep away from heat.

7.3. Certain end uses

No other additional information is available.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

8.1.1 Occupational exposure limit values

8.1.1.1 Occupational exposure limit values according to the Regulation on Health and Safety Measures in Working with Chemical Substances

Name	Standard	TWA-8 Hours		PEL:15mg/m^3		Notes
Ammonium	TLV		10 mg/m^3	-		ACGIH (TAB.1995-96)

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nitrate	PEL			**15**		OSHA (total dust), 5mg/m3 inhalable value
Microballon dust	TLV		5 mg/m^3			Taken from Manufacturer Safety Data Sheet.
Microballon isopentane			1000 ppm 3000mg/m^3	**TROEL**		
Oil mist, mineral	TLV		5 mg/m^3			ACGIH
Kumen CAS No: 98-82-8			20ppm /100mg/m^3			TR OEL
Naphthalene			20ppm /50mg/m^3			TR OEL
Benzene, mono-C10-14-alkyl derivs., fractionation bottoms	DNEL	Long term dermal	8,6 mg/kg bw/day			
	PNEC	Fresh water	0,000075 mg/l			
	PNEC	Nautical	0,000075 mg/l			
	PNEC	Fresh water	0,001 mg/l			
	PNEC	Wastewater treatment plant	2 mg/l			
	PNEC	freshwater sediment	1761 mg/kg			
	PNEC	Seawater sediment	1761 mg/kg			

TLV: Thresold Limit Value

PEL: Permissible Exposure Limit

TWA: Time weighted average

ACGIH : American Conference of Governmental Industrial Hygienists

8.1.1.2 Occupational exposure limit values according to the Regulation on Health and Safety Measures in Working with Carcinogenic and Mutagenic Substances

No data

8.1.1.3 Other occupational exposure limit values

No data.

8.2. Exposure controls

8.2.1 Engineering measures

Eye washes and showers for emergency use. Local ventilation recommended - mechanical ventilation may be used.

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Measures for the substance / mixture to prevent exposure during specified uses

Do not swallow. If swallowed, seek medical advice immediately.

Structural measures to prevent exposure

Keep it sealed until you dispose of it or reuse it later.

Organizational measures to prevent exposure

Establish procedures for the safe use and maintenance of controls.

Educate employees on the hazards and control measures associated with normal activities with this product.

Ensure equipment used to control exposure, such as personal protective equipment, local exhaust ventilation, is correctly selected, tested and maintained.

8.2.2 Personal protective equipment

8.2.2.1 Eyes and face protection

Use goggles that comply with the EN 166 standard, providing protection against mechanical hazards.

8.2.2.2 Skin and body protection

Hand protection

Use gloves that comply with the EN 388 standard, providing protection against mechanical hazards.

Thickness of the glove does not indicate that it has good chemical resistant protective properties, since it depends on the exact composition of the glove material. The suitability and durability of a glove depends on use, i.e. the frequency and duration of contact, the chemical resistance of the glove material, and its dexterity inside the hands and fingers. Always seek advice from glove suppliers. Contaminated gloves should be changed. Individual hygiene is important to ensure effective hand care. Gloves should only be worn when hands are clean. After using gloves, hands should be thoroughly washed and dried. It is recommended to use a perfume-free moisturizer.

Other skin protection

Wear protective work clothing.

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8.2.2.3 Respiratory protection

Not required under normal use. Respiratory protection may be required after product use.

8.2.2.4 Heat damages

Not applicable.

8.2.3 Environmental exposure controls

Measures for the substance / mixture to prevent exposure

Not applicable.

Instructional measures to avoid exposure

Not applicable.

Organizational measures to prevent exposure

Not applicable.

Technical measures to prevent exposure

Not applicable.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information about basic physical and chemical properties

Appearance	Liquid
Color	Slightly pinkish or white
Odour	Slight oily scent or distinctive
Odour Threshold	Not applicable
pH Value	Not applicable
Melting / Freezing point	Not applicable
Initial Boiling Point / Boiling Range	Not applicable
Flash Point	Not applicable
Evaporation range	Not applicable
Flammability (solid, gas)	Fire or projection hazard.
Upper/Down Flammability or Explosion	Not applicable

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Limit	
Vapor Pressure	Not applicable.
Steam Density	Not applicable
Density	1.18-1.30 g/cm^3
Solubility (water)	It is insoluble in water.
Flammability Temperature	No data available.
Decomposition Temperature	No data available.
Dynamic Viscosity	No data available.
Kinematic Viscosity (Viscosity)	Not applicable
Explosiveness	Heating may cause an explosion. It is explosive.

9.2 Other Information

No additional information is available.

10 STABILITY AND REACTIVITY

10.1 Reactivity

The product is stable under normal handling and storage conditions.

10.2 Chemical Stability

It does not cause harmful reactions if transported and stored according to regulations.

10.3 Possibility of Hazardous Reaction

Explosion hazard. Toxic fumes may be released if heated above the decomposition temperature.

10.4 Conditions to avoid

Do not store at temperatures above 40°C, heat, flame, ignition sources, strong shock, electrostatic discharge.

10.5 Incompatible Materials

Incompatible with acids (eg nitric acid), metal powders, combustibles, alkalis (eg hydroxides), oxidizing agents (eg hypochlorites), chloride salts, sulphur, urea, nitrites and reducing substances (explosive).

10.6 Hazardous Decomposition Products

When heated, toxic gases can be formed (carbon/nitrogen oxides, hydrocarbons).

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity

- LD50(oral) 2217 mg/kg (rat) [European Bureau of Chemicals; IUCLID, January 22, 2007] – Data on Ammonium Nitrate
- LD50 Rat oral 4500 mg/kg. [Canadian Environment; Tech Info for Problem Spills: p.59 (1981)] - Data on Ammonium Nitrate

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- LD50 Rat oral 2800 mg/kg bw [European Bureau of Chemicals; IUCLID, January 22, 2007] - Data on Ammonium Nitrate
- Oral (rat) lowest toxic dose: 10 mg / kg Blood: May cause methaemoglobin - Data on Ammonium Nitrate

- LD50 > 5000 mg/kg Acute Toxicity - Oral (oral-rat) data - Test data of Mineral Oil
- LD50 > 3600 mg/kg Acute Toxicity-skin route (dermal-rat) data-Test data of mineral oil
- LD50 > 2000 mg/kg Acute Toxicity-skin route (dermal-rat) data- Test data of mineral oil
- LD50 > 50000 mg/kg Acute Toxicity-oral (oral-rat) data (expert judgment)- Test data of micro balloon
- LD50 > 39,8 g/kg Acute Toxicity-oral (oral-rat) data - Test data of emulsifier
- LC50 > 10-20 mg/l Acute Toxicity-inhalation (oral-rat) data - Test data of emulsifier
- LD50 (rat): > 5,000 mg/kg Acute Toxicity - Oral (oral) data - Test data for diesel
- LC 50 (rat): > 1 - <=5 mg/l, Exposure time: 4 h Acute Respiratory data - Test data for diesel
- LD 50 (rabbit): > 2.000 mg/kg Acute Toxicity - dermal data - Test data for diesel

Skin corrosion/irritation

It irritates the skin. No test data.

Serious eye damage/irritation

Irritating to eyes. There is no test data.

Respiratory or skin sensitization:
It causes irritation in the respiratory tract and clogging of the lungs.
LC50 Rat 4 hours (Inhalation) > 88.8 mg/L [European Bureau of Chemicals; IUCLID, January 22, 2007]-Ammonium nitrate test data

Acute oral toxicity
Causes irritation in the digestive system. May cause nausea or vomiting.

Germ cell mutagenicity

OECD 471 471 Bacterial, Reverse Mutation Test Experiment: In vitro ,Subject: Mammals- Animal : negative - mineral oil test data

Carcinogenicity
No data.

Reproductive Toxicity

No data.

STOT-single exposure

Includes respiratory tract irritation.

STOT-repeated exposure

Target Organs: Blood, thymus, liver

Remarks: May cause damage to organs through prolonged or repeated exposure.

Aspiration

No data.

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12 ECOLOGICAL INFORMATION

12.1 Toxicity

Acute (short term) toxicity :

Fish: LC50 Cyprinus carpio 1.15 - 1.72 mg NH3 / L (48 hours)-Ammonium nitrate test data

LC50 many types 420 -. 1,360 mg NO3 / L (96 hours) - Ammonium nitrate test data

Acute LC50 >100 mg/l Freshwater Fish - Pimephales promelas

LC fish : 5000mg/L (96 hours) microballoon test data

LC fish > 1-10 mg/L Isopentane test data

Crustaceans: EC50 Daphnia magna 555 mg / L Ammonium nitrate test data

LL/EL/IL50 > 1 <= 10 mg/l - Expected to be toxic: Diesel test data

Algae / aquatic plants: EC50 Scenedesmus quadricauda 83 mg / L- Ammonium nitrate test data

Acute NOEC 2.08 mg/l Freshwater Algae – Scenedesmus subspicatus 72 hours

Other organisms : NOEC Bullia digitalis 300 mg/L (up to 7 days)-Ammonium nitrate test data

Choronic (long term) toxicity:

Fish : No data.

Crustaceans: NOEC/NOEL (Observed Effect Concentration/Observed Effect Level) value is expected to be > 0.1 - <= 1.0 mg/l

Algae / aquatic plants: Not available.

Other organisms : Expected to be virtually non-toxic to bacteria:

LL/EL/IL50 > 100 mg/l

12.2 Persistence and degradability :

Abiotic Decay

EU BODIES 28 % - Not ready for: - 28 days 6 mg/l - Benzene, mono-C10-14-alkyl derivatives, lower fraction.

Physical and photo-chemical elimination

No data available.

biodegradation

Easily biodegradable by itself

12.3 Bioaccumulative potential :

Contains components that are likely to bioaccumulate

Partition coefficient n-octanol / water (log Kow): 6,7 -Benzene, mono-C10-14-alkyl derivs., fractionation bottoms

Bio-concentration factor (BCF): No data available.

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12.4 Mobility in soil: No data available.

Surface Tension **:** No data available.

Clinging to the surface / separation from the surfa **:** No data available.

12.5 Results of PBT and vPvB assessment

No data are available for ammonium nitrate and mineral oil.

Diesel: This mixture does not contain any REACH approved substances that are considered PBT or vPvB

Emulsifier: the substance/mixture does not contain components considered either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Ammonium nitrate is a nutrient for algae in the water. When ammonium nitrate is poured into static waters, large algae blooms can result and affect the population balance of local species in the aquatic environment. In anaerobic soils, nitrate ions can be converted to nitrite, molecular nitrogen, nitrous oxide or ammonium ions.

Mineral oil; should not be taken into the environment and aquatic environment. It can have harmful effects.

12.7 Additional Info

No data available.

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

First, apply it if it can be reused. The unusable, expired product should be considered as “explosive waste” and these wastes are the Production, Import, Transport, Storage, Storage, Sale, Use, Disposal of Explosives Excluded from Monopoly and Hunting Equipment and the like. It should be disposed of in accordance with the Regulation on Inspection Procedures and Principles and related regulations.

13.1.1 Product / Packaging disposal

The unusable, expired product should be considered as “explosive waste” and these wastes are the Production, Import, Transport, Storage, Storage, Sale, Use, Disposal of Explosives Excluded from Monopoly and Hunting Equipment and the like. It should be disposed of in accordance with the Regulation on Inspection Procedures and Principles and related regulations.

If the packaging of the product is clean (not contaminated with explosive or other dangerous substances (T.C.), it should be disposed of in accordance with the Regulation on Control of Packaging Wastes.

13.1.2 Waste treatment – relevant information

Clean product packaging can be recycled by licensed packaging waste buyer / recycling facility. Contact specialist disposal companies.

13.1.3 Disposal into sewers – relevant information

Prevent the product from entering the sewer system.

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13.1.4 Other disposal recommendations

Product and packaging waste must be disposed of in accordance with the current (T.R.) Environmental Law and relevant Regulations. Consult an Environmental Consulting Firm or Environmental Officer for more information.

14 TRANSPORT INFORMATION

14.1. UN Number :

UN No (ADR / RID / ADN) **: 0332**

Un No (IMDG) **: 0332**

Un No (IATA / ICAO) **: 0332**

14.2. UN proper shipping name :

Proper shipping name (ADR / RID / ADN): EXPLOSIVE, BLASTING, TYPE E (AGENT, BLASTING, TYPE E)

Proper shipping name (IMDG): EXPLOSIVE, BLASTING, TYPE E (AGENT, BLASTING, TYPE E)

Proper shipping name (IATA / ICAO): EXPLOSIVE, BLASTING, TYPE E (AGENT, BLASTING, TYPE E)

14.3. Transport hazards: Not applicable

ADR / RID / ADN hazard class **: 1.5D**
Class 1: Explosives and articles

ADR / RID / ADN hazard label **: 1.5D**

IMDG hazard class **: 1.5D**

IMDG hazard label **: 1.5D**

IATA / ICAO hazard class **: 1.5D**

IATA / ICAO hazard label **: 1.5D**

Transportation Label:

14.4. Packing group

ADR / RID / ADN packing group **:** Not applicable

IMDG packing group **:** Not applicable

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IATA / ICAO packing group **:** Not applicable

14.5. Environmental hazards

Not environmentally hazardous according to UN Model Regulations (IMDG Code, ADR, RID and ADN). Not a marine pollutant according to the IMDG Code.

14.6. Special precautions for user:

Special Provisions: Comply with the provisions of ADR 617

Limited and Exceptional Quantities: Comply with the provisions of ADR 0 and E0.

Packing Instructions: Comply with the provisions of ADR P116 and IBC100.

Special Packaging Provisions: Comply with the provisions of ADR no. PP61 and PP62.

Mixed Packing Provisions: Comply with the provisions of ADR No. MP20.

Instructions for Portable Tanks and Bulk Containers: Follow instruction no. T1.

Special Provisions for Portable Tanks and Bulk Containers: Comply with the provisions TP1, TP17, TP32

ADR Tank code: Not applicable.

ADR Tank Special Provisions: Not applicable.

Tank Transport Vehicle: EX/ III

Comply with the provisions of ADR Transport Category (Tunnel Restriction Code): 1 and IBC1000C.

Special Provisions for Carriage

Packaged transport: Comply with the provisions of V2 and V12.

Bulk handling: Not applicable.

Loading, unloading and handling: Comply with the provisions of CV1, CV2 and CV3.

Operation: Comply with the provisions of S1.

Hazard identification number (ADR): 1.5.D

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

15 REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Relevant legislation / regulations

- T.C. Ministry of Family, Labor and Social Services, Occupational Health and Safety Law No. 6331, dated June 30, 2012
- • T.C. Ministry of Environment and Urbanization, Environment Law dated 11 August 1983 and numbered 2872
- • T.C. Ministry of Environment and Urbanization, Regulation on Registration, Evaluation, Authorization and Restriction of Chemicals dated 23 June 2017 and numbered 30105 (Repeated)
- • T.C. Ministry of Environment and Urbanization, Regulation on Classification, Labeling and Packaging of Substances and Mixtures, dated 11 December 2013 and numbered 28848 (Repeating)

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- • T.C. Ministry of Environment and Urbanization, Waste Management Regulation dated April 2, 2015 and numbered 29314
- • T.C. Ministry of Environment and Urbanization, Packaging Waste Control Regulation dated 27 December 2017 and numbered 30283
- • T.C. Ministry of Family, Labor and Social Services, Regulation on the Use of Personal Protective Equipment at Workplaces dated 2 July 2013 and numbered 28695
- • T.C. Ministry of Family, Labor and Social Services, Regulation on Health and Safety Measures in Working with Chemicals, dated 12 August 2013 and numbered 28733
- • T.C. Ministry of Family, Labor and Social Services, Regulation on Health and Safety Measures in Working with Carcinogenic or Mutagenic Substances dated 6 August 2013 and numbered 28730

Usage permissions and/or restrictions

Permissions

This product requires Explosives Transport Permit, Explosives Purchase and Sales License, Explosives Storage Permit and Explosives Purchase and Use Permit.

Usage restrictions

It has no application.

Information on the restriction of emissions of volatile organic compounds

It has no application.

Occupation restrictions

This product can only be used by persons with a valid Explosive Substance Igniter Competence Certificate.

Other legislation / regulations, restrictions, and prohibition regulations

- T.R. Council of Ministers, Regulation No. 87/12028 on the Production, Import, Transportation, Storage, Storage, Sale, Use, Disposal, Inspection of Explosive Substances Excluded from Monopoly, Hunting Equipment and Similar Procedures and Principles
- T.R. Ministry of Science, Industry and Technology, Regulation No. 30159 dated 19 August 2017 on Certification, Market Placement and Inspection of Explosives for Civil Use
- T.C. Ministry of Transport, Maritime Affairs and Communications, Regulation on the Transport of Dangerous Goods by Road, dated October 24, 2013 and numbered 28801
- • T.C. Ministry of Transport, Maritime Affairs and Communications, Regulation on the Transport of Dangerous Goods by Rail, dated 16 July 2015 and numbered 29418
- • T.C. Ministry of Transport, Maritime Affairs and Communications, Regulation on Transport of Dangerous Goods by Sea, dated March 3, 2015 and numbered 29284.
- • T.C. Ministry of Transport, Maritime Affairs and Communications, Regulation on the Transport of Dangerous Goods by Air, dated April 13, 2018 and numbered 30390

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out by the supplier for this substance / mixture.

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16 OTHER INFORMATION

16.1 Indication of the changes

Not applicable

16.2 Abbreviations used in safety data sheet

ADR: European Agreement on the International Carriage of Dangerous Goods by Road
ADN: European Agreement on the International Transport of Dangerous Goods by Inland Waterways
RID: European Agreement Relating to the International Transport of Dangerous Goods by Rail
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
IMDG: International Maritime Dangerous Goods
TWA: Time weighted average
ATE: Estimated acute toxicity value
EC No: European Community number
CAS: Chemical Abstracts Service
LD50: 50% (half) dose of substance causing death in test animal group
LC50: 50% (half) death-causing substance concentration in the test animal group
EC50: Effective concentration of the substance causing 50% maximum response
PBT: Persistent, Bioaccumulative and Toxic
vPvB: Very Persistent, Very Bioaccumulative
SEA: Classification, Labeling, Packaging
BHOT: Specific Target Organ Toxicity
SDS: Safety Data Sheet
ECHA: European Chemicals Agency
BHOT Single Hazard:Specific Target Organ Toxicity Single Exposure
Skin Irrit.: Skin irritation
Eye Irrit.: Eye irritation
Cans.: Carcinogenicity
Aquatic Chronic: Long (chronic) term aquatic hazard
TWA: Time weighted average

16.3 Key literature references and sources of information

No data available.

16.4 SEA Classification for mixtures according to the SEA Regulation and the procedure used to achieve this classification

Classification according to SEA Regulation	Classification procedure
Explosive 1.5 -H205	According to the test information.

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Skin sensitisation 2-H315	Based on the information provided by the raw material supplier. This information is confirmed from SEA Annex-6 and the European Chemicals Agency (according to Echa) and is based on Annex-6 and Echa' information in case of conflict.
Eye irritation 2- H319	Based on the information provided by the raw material supplier. This information is confirmed from SEA Annex-6 and the European Chemicals Agency (according to Echa) and is based on Annex-6 and Echa' information in case of conflict.
STOT 3- H-335	Based on the information provided by the raw material supplier. This information is confirmed from SEA Annex-6 and the European Chemicals Agency (according to Echa) and is based on Annex-6 and Echa' information in case of conflict..
Carcinogenicity 2- H351	Based on the information provided by the raw material supplier. This information is confirmed from SEA Annex-6 and the European Chemicals Agency (according to Echa) and is based on Annex-6 and Echa' information in case of conflict..
Aquatic Chronic 3- H412	Based on the information provided by the raw material supplier. This information is confirmed from SEA Annex-6 and the European Chemicals Agency (according to Echa) and is based on Annex-6 and Echa' information in case of conflict.

16.5 Relevant H-phrases (number and full text)

H205: May mass explode in fire.

H319: Causes serious eye irritation cause an allergic skin reaction.

H335: May cause respiratory irritation.

H351: Suspected of causing cancer

H412: Harmful to aquatic life with long lasting effects

EUH066- Repeated exposure may cause skin dryness or cracking.

16.6 Training advice

General awareness and technical training is recommended for employees who will handle, transport and store this product.

16.7 Other Informations

Sources of information

This SDS has been prepared using the following sources:

- Information received from the owner of the product
- SDS provided by raw material suppliers
- ECHA - www.echa.europa.eu

Revision explanation

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Revision Notes	Revision No
This SDS is published for the first time in the new format.	1
Classification error fixed.	2

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