

SAFETY DATA SHEET
Electronic Detonator

It was issued in accordance with the provisions of the "Regulation on the Registration, Evaluation, Authorization and Restrictions of Chemical Substances (REACH)" ([EC] No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL, December 18, 2006).

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

1.1 Product Identifier

Article Name

Article Name	It is also known by the following names.
	Digishot
DigiShot 3G Electronic Detonator	Digishot Plus
4G (TO4MMU) Electronic Detonator	DriftShot NetShock DigiShot Digishot Plus.4G DigiShot Plus XR DigiShot X
4G (TO5 MMU) Electronic Detonator	DriftShot NetShock DigiShot Digishot Plus.4G DigiShot Plus XR DigiShot X
Maclear Detonator	DigiDet Ezshot

CAS No : Not applicable
EC No : Not applicable
REACH : Not applicable
Registration No

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Relevant Identified Uses : Industrial blasting applications (Mining, (without offshore industries) [SU2a] / Agriculture, forestry, fishery [SU1] / Offshore industries [SU2b] / Building and construction work [SU19] sector uses of Explosives [PC11]).
Uses Advised Against : It should not be used except for industrial blasting applications.
Reason Why Uses Advised Against : Explosive usage is dangerous, requires professional competencies & restricted by law.

1.3 Details of the Supplier of the Safety Data Sheet

Manufacturer : Nitromak Dnx Kimya Sanayii A.Ş.
Street Address / P.O. Box : VIA FLAT IŞ VE YAŞAM MERKEZİ, Beştepe Mahallesi Nergiz Sokak 7/2 Kat:1 Ofis No:52 / Not available
Country ID / Postcode / Place : TR (TUR) / 06560 / Yenimahalle / Ankara
Telephone Number : +90 312 201 7700
Telefax Number : +90 312 201 7701-02
E-mail Address of Competent Person Responsible for the SDS : osmanerdem@nitromak.com
National Contact : Osman Erdem

1.4 Emergency Telephone Number

Manufacturer : +90 312 201 7700
Opening Hours : 08:00 – 17:30 (Weekdays)
Language(s) of the Phone Service : Turkish, English
Emergency Call Centre : 112 / Refer to the link below for your nation is a member of EU. [Emergency Call Centre List](#)
National Poison Centre : Refer to the link below for your nation's telephone number. [National Poison Centre List](#)

2. SECTION: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Physical and Chemical Hazards : Explosive 1.4 – H204
Health Hazards : Acute Tox. 4 – H302
Acute Tox. 4 – H332
Repr. 1A – H360Df
Lact. – H362
STOT RE 2 – H373

Environmental Hazards : Aquatic Acute 1 – H400
Aquatic Chronic 1 – H410

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2.2 Label Elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Hazard Pictograms :



Signal Word : Danger

Hazard Statements :

- H204 - Fire or projection hazard.
- H302 - Harmful if swallowed.
- H332 - Harmful if inhaled.
- H360Df - May damage the unborn child. Suspected of damaging fertility.
- H362 - May cause harm to breast-fed children.
- H373 - May cause damage to organs through prolonged or repeated exposure.
- H400 - Very toxic to aquatic life.
- H410 - Very toxic to aquatic life with long lasting effects.

Precautionary Statements :

- P210 - Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
- 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.
- P240 - Ground/bond container and receiving equipment.
- P250 - Do not subject to grinding/shock/pressure/friction.
- P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
- P261 - Avoid breathing dust / fume / gas / mist / vapours / spray.
- P263 - Avoid contact during pregnancy/while nursing.
- P264 - Wash hands thoroughly after handling.
- P270 - Do not eat, drink or smoke when using this product.
- 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.
- P301 + P312 - IF SWALLOWED: Immediately call NATIONAL POISON CENTER FROM 114 or doctor/physician if you feel unwell.
- P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P261 - Avoid breathing dust / fume / gas / mist / vapours / spray.
- P263 - Avoid contact during pregnancy/while nursing.
- P264 - Wash hands thoroughly after handling.
- P270 - Do not eat, drink or smoke when using this product.
- 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.
- P301 + P312 - IF SWALLOWED: Immediately call NATIONAL POISON CENTER FROM 114 or doctor/physician if you feel unwell.
- P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P308+P313 - IF exposed or concerned: Get medical advice/attention.
- P312 - Call a POISON CENTRE / doctor / if you feel unwell.
- P314 - Get medical advice/attention if you feel unwell.
- P330 - Rinse mouth.
- P370+P372+ P380+P373 - In case of fire:
Risk of explosion. Evacuate the area. DO NOT fight the fire if it reaches explosives.
- P370+P380+ P375 - In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
- P391 - Collect spillage.
- P401 - Store in accordance with local / regional / national / international regulations.
- P405 - Store locked up.
- P501 - Dispose of contents / container to the local regulations.

2.3 Other Hazards

No data available.

3. SECTION: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances : Not applicable

3.2 Mixtures :

Substance Name	EC No EINECS No	CAS No	Weight % of Content	Hazard Class and Category	Hazard Statements	SCL / M-factor / ATE
Pentaerithrityl tetranitrate P.E.T.N	201-084-3	78-11-5	10-25 %	Unst. Expl.	H200	No Data available
Lead diazide	236-542-1	13424-46-9	25-50 %	Unst. Expl. Repr. 1A Acute Tox. 4 Acute Tox. 4 STOT RE 2 Aquatic Acute 1 Aquatic Chronic 1	H200 H360Df H302 H332 H373 H400 H410	No Data available

SAFETY DATA SHEET
Electronic Detonator

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Lead	231-100-4	7439-92-1	10-25 %	Repr. 1A Lact.	H360FD H362	Repr. 1A ; H360D: C≥%0,03
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For full text of H-statements, see [16th Section](#).

About the composition

- The data are given in accordance with the latest Republic of Turkey (TR) and European Commission (EC) regulations.

4. SECTION: FIRST AID MEASURES

4.1 Description of First Aid Measures

General Notes

Special precautions are not necessary.

Following Inhalation

Unlikely exposure. Do not induce vomiting; get medical attention immediately.

Following Ingestion

If a large amount is swallowed, consult a physician. DO NOT INDUCE VOMITING! Rinse mouth immediately and remove to fresh air. If any discomfort persists, consult a physician.

Following Skin Contact

Unlikely exposure. Remove contaminated clothing. Wash skin immediately with soap and water. If skin irritation persists, consult a physician.

Following Eye Contact

Unlikely exposure. Remove contact lenses, if present. Flush eyes with water for several minutes, keeping eyes open. If symptoms persist, consult a physician.

Self-protection of the First Aider

Where possible, and to prevent cross contamination, the first aider should wear protective gloves, CPR face shields, etc. Alcohol hand gels are ideal for cleaning hands where there is no water.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

Inhalation : Not applicable.

Ingestion : Not applicable.

Skin Contact : Not applicable.

Eye Contact : Not applicable.

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

No specific treatment is recommended. Treat according to symptoms.

5. SECTION: FIREFIGHTING MEASURES

5.1 Firefighting Equipment

Appropriate Extinguishing Media

Not applicable. DO NOT fight fire when fire reaches explosives.

Inappropriate Extinguishing Media

Not applicable. DO NOT fight fire when fire reaches explosives.

5.2 Special Hazards Arising from the Substance or Mixture

Unusual Fire and Explosion Hazards

DO NOT FIGHT FIRE FIRES INVOLVING EXPLOSIVES. Evacuate all personnel to a predetermined safe area that is at least 1.000 meters in all directions. In case of fire, it may detonate or explode.

Hazardous Combustion Products

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

5.3 Advice for Firefighters

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 FIGHT FIRE FIRES INVOLVING EXPLOSIVES. Evacuate all personnel to a predetermined safe area.

Protective Equipment

Use self-contained respiratory protective equipment. Use full protective clothing.

6. SECTION: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

6.1.1 For non-emergency personnel

Protective Equipment

Not applicable.

SAFETY DATA SHEET

Electronic Detonator

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Emergency Procedures
Not applicable.

6.1.2 For emergency responders

Remove people from hazardous areas. Provide adequate ventilation. Use protective clothing. Protect from heat. Clear the area. Isolate the area and block access.

Wear protective clothing as indicated in [8th Section](#) of this Safety Data Sheet.

6.2 Environmental Precautions

Special precautions are not necessary.

6.3 Methods and Material for Containment and Cleaning Up

6.3.1 For containment

Not applicable.

6.3.2 For cleaning up

Protect from all sources of ignition. If there is no fire hazard and the product is undamaged and/or uncontaminated, collect the product mechanically and pack it in its original packaging or other approved clean container. Ensure a complete product count has been done and verified.

If explosive dust is spilled from parts such as a broken capsule, handling and cleaning should only be performed by suitably qualified and authorized personnel. Spilled explosive dust is extremely sensitive to ignition and may explode. Avoid sources of sparks. Notify local water and waste management authorities if contamination of sewers or waterways occurs. Put the waste in suitable containers and send it for recycling or disposal.

6.3.3 Other information

Dispose of unused material as waste within the scope of [13th Section](#).

6.3.4 Reference to other sections

See [7th Section](#) for information on safe handling.

For personal protection, see [8th Section](#).

See [11th Section](#) for additional information on health hazards.

See [13th Section](#) for waste disposal.

7. SECTION: HANDLING AND STORAGE

7.1 Precautions for Safe Handling

Handle carefully. Prevent shaking, friction and impact. 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, immediate cooling must be performed.

7.2 Conditions for Safe Storage, Including Any Incompatibilities

Requirements for storage rooms and vessels

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. Flammable/flammable – keep away from oxidants, heat and flames. Do not store near producing areas and do not expose to high temperatures. Keep away from strong shocks.

Technical measures and storage conditions

Keep away from foodstuffs.

Further information on storage conditions

Store in tightly closed containers in cool, dry conditions. Keep away from heat.

7.3 Specific End Use(s)

Recommendations

No other additional information is available.

Industrial sector specific solutions

No other additional information is available

8. SECTION: 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 Precautions in Working with Chemicals

No data available.

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Electronic Detonator

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

No data available.

8.1.1.3 Other occupational exposure limit values

EINECS	CAS	Substance Name	Limit Value				Special Sign
			(8 Hours)		(15 minute)		
			mg/m³	ppm	mg/m³	ppm	
231-100-4	7439-92-1	Lead	0.5	-	-	-	-
236-542-1	13424-46-9	Lead diazide	0.5	-	-	-	-

8.1.1.4 Biological limit values according to the Regulation on Health and Safety Measures in Working with Chemical Substances

70 µg Pb/100 ml blood.

8.2 Exposure Controls

8.2.1 Appropriate engineering controls

Substance / mixture related measures to prevent exposure during identified uses

Not applicable.

Structural measures to prevent exposure

Not applicable.

Organizational measures to prevent exposure

Not applicable.

Technical measures to prevent exposure

Not applicable.

8.2.2 Personal protection equipment

8.2.2.1 Eye / face protection

Use goggles that provide protection against mechanical hazards in accordance with EN 166 standard.



8.2.2.2 Skin protection

Hand protection

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



Other skin protection

Use protective clothing.



8.2.2.3 Respiratory protection

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

8.2.2.4 Thermal hazards

Not applicable.

8.2.3 Environmental Exposure Controls

Substance / mixture-related precautions to avoid exposure

Not applicable.

Instruction measures to prevent exposure

Not applicable.

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Organisational measures to prevent exposure
Not applicable.

Technical measures to prevent exposure
Not applicable.

9. SECTION: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

Physical State	: Solid.
Colour	: It may vary according to product specification.
Odour	: Odourless.
Odour Threshold	: Not applicable
pH Value	: Not applicable
Melting / Freezing Point	: Not applicable
Boiling / Initial Boiling Point and Boiling Range	: Not applicable
Flash Point	: Not applicable
Evaporation Rate	: Not applicable
Flammability (gases, liquids and solids)	: Fire or projection hazard.
Lower and Upper Explosion Limit	: Not applicable
Vapour Pressure	: Not applicable
Vapour Concentration	: Not applicable
Relative Density	: Not applicable
Solubility	: Insoluble in water.
Partition Coefficient n-octanol/water (log value)	: Not applicable
Auto-ignition Temperature	: No data available
Decomposition Temperature	: No data available
Dynamic Viscosity	: Not applicable
Kinematic Viscosity	: Not applicable
Explosive Properties	: Heating may cause an explosion. It is explosive.
Oxidizing Properties	: Not oxidizing.

9.2 Other information

No additional information is available.

10. SECTION: 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 Reactions

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

10.4 Conditions to Avoid

Do not store at temperatures above 50°C, heat, flame, sources of ignition, strong shock, electrostatic discharge.

10.5 Incompatible Materials

Not applicable

10.6 Hazardous Decomposition Products

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

11. SECTION: TOXICOLOGICAL INFORMATION

11.1 Information on Hazard Classes

Acute toxicity
Harmful if swallowed. Harmful if inhaled.

SAFETY DATA SHEET

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EINECS No	CAS No	Substance Name	LD50 Oral
231-100-4	7439-92-1	lead	>2000 mg/kg (rat)

Skin corrosion / irritation

It is not a skin irritant in its unused form. Vapours / particles produced by the used product may irritate the skin.

Serious eye damage / irritation

In its unused form, it does not irritate the eyes. Vapours / particles produced by the used product may irritate the eyes.

Respiratory or skin sensitisation

No data available.

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

May damage fertility or the unborn child. Classified as a known or presumed human reproductive or developmental toxicant. May harm the nursing child.

STOT - single exposure

No data available

STOT - repeated exposure

Kidney damage, anemia, central nervous system damages, and peripheral nervous system damage have been reported in cases of long-term exposure to lead.

Aspiration hazard

No data available

12. SECTION: ECOLOGICAL INFORMATION

12.1 Toxicity

Acute (short-term) toxicity

Fish : No data available

Crustacea : No data available

Algae/aquatic plants : No data available

Other organisms : No data available

Chronic (long-term) toxicity

Fish : No data available

Crustacea : No data available

Other organisms : No data available

12.2 Persistence and Degradability

Abiotic Degradation

No data available

Physical and photo-chemical elimination

No data available

Biodegradation

No data available

12.3 Bio-accumulative Potential

Partition coefficient n-octanol /water (log Kow) : No data available

Bioconcentration factor (BCF) : No data available

12.4 Mobility in Soil

Known or predicted distribution to environmental compartments : No data available

Surface tension : No data available

Adsorption / Desorption : No data available

12.5 Results of PBT and vPvB Assessment

PBT or vPvB assessment results according to Annex XIII of the REACH Regulation:

PBT : Not applicable

vPvB : Not applicable

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12.6 Endocrine Disrupting Properties

No data available

12.7 Other Adverse Effects

No data available

12.8 Additional Information

No data available

13. SECTION: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

13.1.1 Product / Packaging disposal

The unusable, expired product should be considered as "explosive waste" and these wastes should be disposed of in accordance with the related regulations.

If the product packaging is clean (not contaminated with explosive or other dangerous substances), it should be disposed of in accordance with the regulations regarding packaging wastes.

13.1.2 Waste treatment-relevant information

Clean product packaging can be recycled by licensed packaging waste buyer / recycling facility.

13.1.3 Sewage disposal-relevant information

Prevent the product from entering the sewer system.

13.1.4 Other disposal recommendations

Product and packaging waste must be disposed of in accordance with the current environmental regulations and relevant regulations. Consult an Environmental Consulting Firm or Environmental Specialist for more information.

14. SECTION: TRANSPORT INFORMATION

14.1 UN Number

UN No (ADR / RID / ADN) : 0513

UN No (IMDG) : 0513

UN No (IATA / ICAO) : 0513

14.2 UN Proper Shipping Name

Proper Shipping Name (ADR / RID / ADN) : DETONATORS, ELECTRONIC, PROGRAMMABLE FOR BLASTING

Proper Shipping Name (IMDG) : DETONATORS, ELECTRONIC, PROGRAMMABLE FOR BLASTING

Proper Shipping Name (IATA / ICAO) : DETONATORS, ELECTRONIC, PROGRAMMABLE FOR BLASTING

14.3 Transport Hazard Class(es)

ADR / RID / ADN Hazard Class(es) : 1.4

ADR / RID / ADN Hazard Label(s) : 1.4S



IMDG Hazard Class(es) : 1.4

IMDG Hazard Label(s) : 1.4S



IATA / ICAO Hazard Class(es) : 1.4

SAFETY DATA SHEET

Electronic Detonator

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IATA / ICAO Hazard Label(s) : 1.4S



14.4 Packing Group

ADR / RID / ADN Packing Group : Not applicable
IMDG Packing Group : Not applicable
IATA / ICAO Packing Group : Not applicable

14.5 Environmental Hazards

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

14.6 Special Precautions for User

EmS : F-B, S-X
Special provisions : 347
Limited quantities : 0
Excepted quantities : E0
Packing instructions : P131
Special packing provisions : Not applicable
Mixed packing provisions : MP23
Portable tanks and bulk containers instructions : Not applicable
Portable tanks and bulk containers special provisions : Not applicable
ADR Tank code : Not applicable
ADR Tank special provisions : Not applicable
Vehicle for tank carriage : Not applicable
Transport category : Not applicable
Tunnel restriction code : 4
(E)

Special provisions for carriage

Packages : Not applicable
Bulk : Not applicable
Loading, unloading and handling : CV1, CV2, CV3
Operation : S1
Hazard identification No : Not applicable

14.7 Maritime Transport in Bulk According to IMO Instruments

Not applicable

15. SECTION: REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations / Legislation Specific for the Substance or Mixture

National regulations
No data available

Authorisations and/or restrictions on use

Authorisations

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

Restrictions on use

Not applicable

Other EU regulations

Not applicable

Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline)
Not applicable

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Restrictions of occupation

This product can only be used by persons holding a valid Explosives Blaster Competence Certificate. It is also recommended that the relevant personnel receive training on electronic detonators.

Other regulations, restrictions and prohibition regulations

No data available

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this article by the manufacturer.

16. SECTION: OTHER INFORMATION

16.1 Indication of Changes

Explanation about the revision

The following changes have been made to this SDS:

- Spelling errors corrected.
- Relevant legislation/regulation information updated.
- New SDS format used.

16.2 Abbreviations and Acronyms

ADN	: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	: European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	: Acute Toxicity Estimate
STOT	: Specific Target Organ Toxicity
CAS	: Chemical Abstracts Service
CLP	: Classification Labelling Packaging Regulation
EC No	: European Community Number
EC₅₀	: The concentration which induces a response halfway between the baseline and maximum after a specified exposure time
ECHA	: European Chemicals Agency
EmS	: Ships Carrying Dangerous Goods including the Emergency Schedules
IATA	: International Air Transport Association
ICAO	: International Civil Aviation Organization
IMDG	: International Maritime Dangerous Goods
LC₅₀	: Lethal Concentration to 50 % of a test population
LD₅₀	: Lethal Dose to 50% of a test population (Median Lethal Dose)
RID	: Regulations concerning the International Carriage of Dangerous Goods by Rail
PBT	: Persistent, Bio-accumulative and Toxic
SDS	: Safety Data Sheet
TWA	: Time Weighted Average
vPvB	: Very Persistent and Very Bio-accumulative

16.3 Key Literature References and Sources for Data

No data available

16.4 Classification and Procedure Used to Derive the Classification for Mixtures According to the CLP Regulation

Classification According to CLP Regulation	Classification Procedure
Explosive 1.4 – H204	On basis of test data
Acute Tox. 4 – H302	Calculation method
Acute Tox. 4 – H332	Calculation method
Repr. 1A – H360Df	Calculation method
Lact. – H362	Calculation method
STOT RE 2 – H373	Calculation method
Aquatic Acute 1 – H400	Calculation method
Aquatic Chronic 1 – H410	Calculation method

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16.5 Relevant H-statements (Number and Full Text)

H200 : Unstable Explosive.
H204 : Fire or projection hazard.
H302 : Toxic if swallowed.
H332 : Harmful if inhaled.
H360Df : May damage the unborn child. Suspected of damaging fertility.
H360FD : May damage fertility. May damage the unborn child.
H362 : May cause harm to breast-fed children.
H373 : May cause damage to organs through prolonged or repeated exposure.
H400 : Very toxic to aquatic life.
H410 : Very toxic to aquatic life with long lasting effects.

16.6 Training Advice

It is recommended that employees who will handle, transport and store this product receive general awareness and technical training on Explosives.

16.7 Further Information

Sources for data

This SDS has been issued using the following sources:

- Information received from the supplier company that produces, imports or distributes the chemical
- SDSs provided by raw material suppliers
- ECHA - www.echa.europa.eu

SDS Author

Osman Erdem
Chemical Assessment Specialist
Telephone Number: +90 537 921 5490
E-mail Address: osmanerdem@nitromak.com
Certificate Number: TÜV/11.241.04
Certificate is valid between: 15.05.2024 – 15.05.2029
Certificate Issuing Authority: TÜV Austria Personnel Certification Training Co. Ltd.
Visit the web page of <https://www.tuvaustria.org/> to validate the certificate.

Disclaimer

This SDS has been authored based on the information and documents received from this Supplier Company that produces, imports or distributes the relevant chemical. The SDS Author cannot be held responsible for the material and moral damages and losses that the Supplier Company or third parties may encounter due to the incomplete or incorrect preparation of this SDS which is based on these incomplete or inaccurate information and documents which the Supplier Company provided.

Certificate Information of the SDS Author has been stated specifically for this SDS. No changes can be made to this SDS or the Certificate Information of the SDS Author cannot be used for another SDS without the knowledge and written approval of the SDS Author. Otherwise, the SDS Author (Certificate Holder) will not accept any liability for the SDS and keep all reserved his legal rights, especially the right to compensation.