



TOROS TARIM

SAFETY DATA SHEET

Ammonium Nitrate EC FERTILIZER- TOROS AN

Commission Regulation (EU) 2020/878 of 18 June 2020.

According to Regulation (EC) No 1907/2006, Annex II, as amended.

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name Ammonium Nitrate EC FERTILIZER- TOROS AN

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses It is used as fertilizer in agricultural applications.

1.3. Details of the supplier of the safety data sheet

Supplier Toros Tarım Sanayi ve Ticaret A.Ş.
Head office: Tekfen Tower Büyükdere Cad. No: 209
34394 4. Levent Şişli / İstanbul-Turkey
Tel: +90 212 357 02 02 Fax: +90 212 357 02 31
www.toros.com.tr

1.4. Emergency telephone number

Emergency telephone Toros Tarım/Mersin Production Facilities - Tel: +90 324 234 3100

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (SI 2019 No. 720)

Physical hazards Ox. Sol. 3 - H272

Health hazards Eye Irrit. 2 - H319

Environmental hazards Not Classified

2.2. Label elements

Hazard pictograms



Signal word Warning

Hazard statements H272 May intensify fire; oxidiser.
H319 Causes serious eye irritation.

Precautionary statements P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P221 Take any precaution to avoid mixing with combustibles and reducing agents.
P264 Wash contaminated skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501 Dispose of contents/ container in accordance with national regulations.



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2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

Inhalation of decomposition gases, including ammonia and oxides of nitrogen, may cause abrasive effects and irritation in the respiratory system. Some lung functions may be inhibited. The product does not extinguish, but supports combustion even in airless environment. It melts when heated and causes decomposition. Toxic gases such as nitrogen oxides (NOx) and ammonia (NH₃) are released. High resistance to detonation.

Inhalation : If concentration is high, it may damage the burr and the upper respiratory system. May cause sore throat and coughing.

Skin contact: Prolonged contact with skin may cause irritation, redness and debris.

Eye contact: May cause redness and burning.

Ingestion: Trivial toxic effects when swallowed in small quantities. Swallowing in high quantities may cause gastrointestinal disturbances.

Rarely can form methemoglobin formation and cyanosis.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Ammonium nitrate	≥ 94%
CAS number: 6484-52-2	EC number: 229-347-8
REACH ANNEX XVII.	
SCL:Eye Irrit. 2 - H319: 80< C ≤100 %	REACH registration number : 01-2119490981-27-xxxx
Classification	
Ox. Sol. 2 - H272	
Eye Irrit. 2 - H319	

The full text for all hazard statements is displayed in Section 16.

Composition comments	<ul style="list-style-type: none"> •In fertilizers with a nitrogen (N) content of at least 31.5% the amount of combustible material should be less than 0.2% •Nitrogen content should not be less than 20%.This product may also contain some inert substances, limestone and / or dolomite.
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SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.
Inhalation	Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.
Ingestion	Stop if the affected person feels sick as vomiting may be dangerous. Rinse mouth thoroughly with water. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
Skin contact	Take off immediately all contaminated clothing. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes and get medical attention.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

General information	See Section 11 for additional information on health hazards. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	Upper respiratory irritation. Coughing.



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Ingestion	Nausea, vomiting.
Skin contact	Redness.
Eye contact	Severe irritation, burning and tearing.

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

Notes for the doctor	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	The product is not flammable. Extinguish with the following media: Water.
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Unsuitable extinguishing media	Chemical extinguisher, foam sand, steam should not be used.
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5.2. Special hazards arising from the substance or mixture

Specific hazards	In case of fire, toxic gases may be formed. Carbon monoxide (CO). Carbon dioxide (CO ₂). Flammable materials will enter the reaction causing fire because it is a strong oxidizer. Ammonium nitrate is classified as an explosive if it is contaminated with organic substances or 0.2% by inorganic flammable substances. Ammonium nitrate is classified as an explosive if it is contaminated with organic substances or 0.2% by inorganic flammable substances. In case of fire toxic gases are released. The released toxic gases are either in the form of NO _x or NH ₃ gas according to the presence of oxygen in the environment.
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5.3. Advice for firefighters

Protective actions during firefighting	Avoid breathing vapour/spray. No action shall be taken without appropriate training or involving any personal risk. Evacuate area. Move containers from fire area if it can be done without risk. Dike and collect extinguishing water.
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Special protective equipment for firefighters	Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of dust. Avoid dust formation. In presence of powdery product, use full-face protective mask with filter. Avoid contact with eyes. Provide adequate ventilation. Take care as floors and other surfaces may become slippery.
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6.2. Environmental precautions

Environmental precautions	Avoid discharge into drains or watercourses or onto the ground. Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).
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6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Large Spillages: Sweep and shovel into suitable containers for disposal. Flush away spillage with plenty of water. Small Spillages: Collect powder using special dust vacuum cleaner with particle filter or carefully sweep into suitable waste disposal containers and seal securely.
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6.4. Reference to other sections

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.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions

Avoid dust formation. In presence of powdery product, use full-face protective mask with filter. Avoid contact with eyes. Eye wash facilities and emergency shower must be available when handling this product. Good personal hygiene procedures should be implemented. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions

Store in tightly-closed, original container in a dry, cool and well-ventilated place.
Store away from the following materials: Flammable/combustible materials. Reducing agents. Strong bases.
Suitable container materials: Stainless steel.
Keep away from food, drink and animal feeding stuffs. Protect from sunlight. Use explosion-proof material. Equipment such as power tools, switches and fuse boxes should be placed outside the warehouse as much as possible. During the storage of packaged products, exposure to high temperature differences should be avoided.

7.3. Specific end use(s)

Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

Ammonium nitrate

TLV/TWA: 10 mg/m³; ACGIH (Tab. 1995-96)

Ammonium nitrate (CAS: 6484-52-2)

DNEL

Workers - Inhalation; Long term systemic effects: 36 mg/m³
Workers - Dermal; Long term systemic effects: 5.12 mg/kg bw/d
General population - Inhalation; Long term systemic effects: 8.9 mg/m³
General population - Dermal; Long term systemic effects: 2.56 mg/kg bw/d
General population - Oral; Long term systemic effects: 2.56 mg/kg bw/d

PNEC

STP; 18 mg/l

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation. Provide adequate general and local exhaust ventilation. Provide eyewash station and safety shower. Personal, workplace environment or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimise worker exposure. Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control measures. Ensure control measures are regularly inspected and maintained. Ensure operatives are trained to minimise exposure.



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Eye/face protection	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment that provides appropriate eye and face protection should be worn. Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, wear gloves that are proven to be impervious to the chemical and resist degradation. (EN 374- 1,EN-374-2, EN-374-3, EN 388, EN 420, EN 346) Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended. For exposure up to 4 hours, wear gloves made of the following material: Nitrile rubber.
Other skin and body protection	Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.
Hygiene measures	Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Preventive industrial medical examinations should be carried out. Warn cleaning personnel of any hazardous properties of the product.
Respiratory protection	Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is 'UKCA'-marked. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges suitable for intended use should be used. Full face mask respirators with replaceable filter cartridges suitable for intended use should be used. Half mask and quarter mask respirators with replaceable filter cartridges suitable for intended use should be used.
Environmental exposure controls	Keep container tightly sealed when not in use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Prill
Colour	White/off-white.
Odour	Odourless.
Odour threshold	No information available.
pH	pH (diluted solution): > 4.5 10% sol.
Melting point	169°C
Initial boiling point and range	Decomposes before boiling.
Flash point	No information available.
Evaporation rate	No information available.
Evaporation factor	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No information available.



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Vapour pressure	No information available.
Vapour density	No information available.
Density or relative density	1.72 (20°C)
Bulk density	No information available.
Solubility(ies)	The product is hygroscopic at 1900 g / l (20 ° C). keeping the moisture of the air.
Partition coefficient	No information available.
Auto-ignition temperature	No information available.
Decomposition Temperature	> 210°C
Viscosity	No information available.
Explosive properties	EEC test is not explosive according to A14 (67/548 / EEC). The fertilizer has high resistance against explosion. This resistance is reduced due to the contaminants in the contents and / or high temperature. Heating in enclosed spaces (tube, duct etc.); Especially if the materials listed in Chapter 10, 2 are contaminated, lead to severe reactions and explosions.
Oxidising properties	Supports combustion and oxidation
Particle characteristics	No information available.
9.2. Other information	
Other information	No information required.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Stable under the prescribed storage conditions.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Heating in closed containers (pipe, duct, etc.); especially if the substances listed in Section 10.5 are contaminated it causes severe reactions and explosions. In the case of alkali materials such as lime, ammonia gas is released.

10.4. Conditions to avoid

Conditions to avoid Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials

Materials to avoid Flammable and reducing substances, acids, alkalis, sulfur, chlorides, chromites, nitrites, permanganates, metallic powders and metals such as copper, nickel cobalt, zinc and alloys of these metals. Do not mix with grease, oils, fuels, acids, alkalis, and oxidants.

10.6. Hazardous decomposition products

Hazardous decomposition products When overheated, the product melts and decomposes to produce toxic smoke.



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SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity - oral

Notes (oral LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Based on available data the classification criteria are not met.

Skin corrosion/irritation

Skin corrosion/irritation Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye irritation.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

IARC carcinogenicity

Contains a substance which has been shown to cause cancer in laboratory animals. IARC Group 2A
Probably carcinogenic to humans.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity -

development

Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Aspiration hazard Not relevant. Solid.

11.2. Information on other hazards

Information on other hazards This product does not contain any known or suspected endocrine disruptors.

Toxicological information on ingredients.



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Ammonium nitrate

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ 2950 mg/kg, Oral, Rat (OECD Test Guideline 401)

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ >5000 mg/kg, Dermal, Rat (OECD Test Guideline 402)

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC₅₀ >88,8 mg/l, 4 hour, Rat [Europe Chemicals Bureau, IUCLID, January 22, 2007]

Carcinogenicity

IARC carcinogenicity IARC Group 2A Probably carcinogenic to humans.

SECTION 12: Ecological information

Ecotoxicity Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

12.1. Toxicity

Toxicity Based on available data the classification criteria are not met.

Ecological information on ingredients.

Ammonium nitrate

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hour: 447 mg/l, Cyprinus carpio (Common carp)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hour: 490 mg/l, Daphnia magna
EC₅₀, 7 day: 555 mg/l, Bullia digitalis

Acute toxicity - aquatic plants EC₅₀, 10 day: >1700 mg/l, Algae

Acute toxicity - microorganisms EC₅₀, 180 minute: >1000 mg/l, Activated sludge

12.2. Persistence and degradability

Persistence and degradability The NO₃- ion is the strongest form of plant nutrition. Then the resultant nitrogen in the natural nitrification / denitrification cycle is released.

Ecological information on ingredients.

Ammonium nitrate

Persistence and degradability The substance is readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential The product does not show on bioaccumulation.

Partition coefficient No information available.

Ecological information on ingredients.

Ammonium nitrate

Bioaccumulative potential Bioaccumulation is unlikely.



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Partition coefficient No information available.

12.4. Mobility in soil

Mobility Soluble in water. The NO₃⁻ ion is mobile, the NH₄⁺ ion is absorbed by the soil.

Ecological information on ingredients.

Ammonium nitrate

Mobility No information available.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Endocrine disrupting properties

Endocrine disrupting properties The product does not contain any endocrine disrupting substance.

Ecological information on ingredients.

Ammonium nitrate

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current UK criteria.

12.7. Other adverse effects

Other adverse effects None known.

Ecological information on ingredients.

Ammonium nitrate

Other adverse effects Ammonium nitrate is a nutrition for algae in water. When ammonium nitrate is poured into static water, it can cause reproduction of big algae and it affects the population of local species. In anaerobic soil, nitrate ions can transform into nitrite, molecular nitrogen, nitrogen oxide or ammonium ions.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Evitai accesul la Avoid access to water sources and channels. The product packaging must be completely emptied and must be disposed of within the framework of legislation. i canale de apă. Ambalajul produsului trebuie golit complet i trebuie eliminat în cadrul legislaiei.

SECTION 14: Transport information

14.1. UN number or ID number

UN No. (ADR/RID)	2067
UN No. (IMDG)	2067
UN No. (ICAO)	2067
UN No. (ADN)	2067



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14.2. UN proper shipping name

Proper shipping name (ADR/RID)	AMMONIUM NITRATE FERTILIZERS
Proper shipping name (IMDG)	AMMONIUM NITRATE FERTILIZERS
Proper shipping name (ICAO)	AMMONIUM NITRATE FERTILIZERS
Proper shipping name (ADN)	AMMONIUM NITRATE FERTILIZERS

14.3. Transport hazard class(es)

ADR/RID class	5.1
ADR/RID classification code	O2
ADR/RID label	5.1
IMDG class	5.1
ICAO class/division	5.1
ADN class	5.1

Transport labels



14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ADN packing group	III
ICAO packing group	III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

IMDG Code segregation group	2. Ammonium compounds
EmS	F-H, S-Q
ADR transport category	3
Emergency Action Code	1Z
Hazard Identification Number (ADR/RID)	50
Tunnel restriction code	(E)
Limited quantities (ADR)	5 KG



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14.7. Maritime transport in bulk according to IMO instruments

Maritime transport in bulk according to IMO instruments Not applicable.

SECTION 15: Regulatory information

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

National regulations Health and Safety at Work etc. Act 1974 (as amended).
 EH40/2005 Workplace exposure limits.
 The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].
 Commission Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
 Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
 Commission Regulation (EU) 2020/878 of 18 June 2020.

Authorisations (SI 2020 No. 1577 Annex XIV) and REACH 1907/2006, Annex XIV No specific authorisations are known for this product.

Restrictions (SI 2020 No. 1577 Annex XVII) and REACH 1907/2006, Annex XVII Entry number: 58 (CAS No: 6484-52-2)

Seveso Directive - Control of major accident hazards P8 Lower-tier 50 tonnes Upper-tier 200 tonnes.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
 RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
 IATA: International Air Transport Association.
 ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.
 IMDG: International Maritime Dangerous Goods.
 CAS: Chemical Abstracts Service.
 ATE: Acute Toxicity Estimate.
 LC50: Lethal Concentration to 50 % of a test population.
 LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).
 EC₅₀: 50% of maximal Effective Concentration.
 PBT: Persistent, Bioaccumulative and Toxic substance.
 vPvB: Very Persistent and Very Bioaccumulative.

Classification abbreviations and acronyms Ox. Sol. = Oxidising solid
 Eye Irrit. = Eye irritation

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Key literature references and sources for data	Source: European Chemicals Agency, http://echa.europa.eu/ This SDS is prepared based on the information and documents received from product owner. CRAD or/and SDS author shall not be responsible for incorrect prepared of SDS and pecuniary loss or intangible damages because of deficient or wrong information and documents which comes from product owner.
Classification procedures according to SI 2019 No. 720	Eye Irrit. 2 - H319: : Calculation method. Ox. Sol. 3 - H272: : Expert judgement.
Revision comments	SDS has been revised under the current regulations.
Issued by	Esra Bal / CRAD gbf@crad.com.tr Tel.:+90 216 3354600
Revision date	23/01/2025
Revision	4.0
Supersedes date	22/11/2016
SDS number	15910
Hazard statements in full	H272 May intensify fire; oxidiser. H319 Causes serious eye irritation.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.