



TOROS TARIM

SAFETY DATA SHEET GREEN FEED

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	GREEN FEED
Variants	GREENFEED 15-5-30 GREENFEED 17-07-21 GREENFEED 16-8-24 GREENFEED 18-18-18 GREENFEED 20-10-20+TE GREENFEED 15-30-15+TE GREENFEED 15-5-30+ 2 MgO+ TE

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

Identified uses	Plant nutritional fertilizers.
Uses advised against	No specific uses advised against are identified.

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
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1.4. Emergency telephone number

Emergency telephone	Toros Tarım/Mersin Production Facilities - Tel: +90 324 234 3100
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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	Not Classified
Environmental hazards	Not Classified

Additional information Classification (Regulation (EC) No. 1272/2008).

2.2. Label elements

Hazard pictograms



Signal word Warning

Hazard statements H272 May intensify fire; oxidiser.



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Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P220 Keep away from combustible materials.
P221 Take any precaution to avoid mixing with combustibles and reducing agents.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P370+P378 In case of fire: Use plenty of water for extinguishing.
P501 Dispose of contents/ container in accordance with national regulations.

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Potassium nitrate	35-60%
CAS number: 7757-79-1	EC number: 231-818-8

Classification
Ox. Sol. 3 - H272

Ammonium nitrate	5-25%
CAS number: 6484-52-2	EC number: 229-347-8
REACH ANNEX XVII. SCL:Eye Irrit. 2 - H319: 80< C ≤100 %	

Classification
Ox. Sol. 2 - H272
Eye Irrit. 2 - H319

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

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. Place unconscious person on their side in the recovery position and ensure breathing can take place.
Ingestion	Rinse mouth thoroughly with water. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. Never give anything by mouth to an unconscious person. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Place unconscious person on their side in the recovery position and ensure breathing can take place. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.
Skin contact	Rinse with water. Get medical attention if symptoms are severe or persist after washing.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes.
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue.



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

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	No specific symptoms known.
Ingestion	No specific symptoms known.
Skin contact	Prolonged contact may cause dryness of the skin.
Eye contact	No specific symptoms known. May be slightly irritating to eyes.

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 spray.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire. Do not use the following: Foam. Dry chemicals, sand, dolomite etc.

5.2. Special hazards arising from the substance or mixture

Specific hazards	May cause or intensify fire; oxidiser.
Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting	Avoid breathing fire gases or vapours. Evacuate area. May cause or intensify fire; oxidiser. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Ensure procedures and training for emergency decontamination and disposal are in place. Do not touch or walk into spilled material. Avoid inhalation of dust and contact with skin and eyes. In case of insufficient ventilation, wear suitable respiratory equipment.
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6.2. Environmental precautions

Environmental precautions	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

Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Do not use sawdust or other combustible material. Eliminate all ignition sources if safe to do so. Approach the spillage from upwind. No smoking, sparks, flames or other sources of ignition near spillage. Use only non-sparking tools. Collect spillage with a shovel and broom, or similar and reuse, if possible. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water. Following dilution and neutralisation, discharge to the sewer with plenty of water may be permitted. The requirements of the local water authority must be complied with if contaminated water is flushed directly to the sewer. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

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.
See Section 12 for additional information on ecological hazards.
For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions

Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Avoid handling which leads to dust formation. Keep away from food, drink and animal feeding stuffs. Keep container tightly sealed when not in use. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

Advice on general occupational hygiene

Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions

Store away from incompatible materials (see Section 10). Store in accordance with local regulations. Keep away from flammable and combustible materials. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage. Bund storage facilities to prevent soil and water pollution in the event of spillage. The storage area floor should be leak-tight, jointless and not absorbent. Protect from sunlight. Do not store near heat sources or expose to high temperatures. Keep away from food, drink and animal feeding stuffs.

Storage class

Oxidiser storage.

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

General dust (TWA-8h) : 10 mg/m³

ACGIH

Ammonium nitrate



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

PEL: 15 mg/m³; OSHA (total powder), 5mg/m³; inhalable value

ACGIH = American Conference of Governmental Industrial Hygienists.

Ammonium nitrate (CAS: 6484-52-2)

DNEL	Workers - Dermal; Long term systemic effects: 21,3 mg/kg bw/d
	Workers - Inhalation; Long term systemic effects: 37,6 mg/m ³
	Consumer - Dermal; Acute systemic effects: 12,8 mg/kg bw/d
	Consumer - Inhalation; Acute systemic effects: 11,1 mg/m ³
	Consumer - Oral; Acute systemic effects: 12,8 mg/kg bw/d
PNEC	Fresh water; 0,45 mg/l
	marine water; 0,045 mg/l
	STP; 18 mg/l

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation. 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.

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. 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.

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.



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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	Solid. Powder.
Colour	Various colours.
Odour	Odourless.
Odour threshold	No information available.
pH	pH (diluted solution): 4.0-5.0 (10%)
Melting point	No information available.
Initial boiling point and range	No information available.
Flash point	Not applicable.
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No information available.
Vapour pressure	No information required.
Vapour density	No information required.
Relative density	No information available.
Bulk density	No information available.
Solubility(ies)	No information available.
Auto-ignition temperature	Not applicable.
Decomposition Temperature	No information available.
Viscosity	Not applicable.
Explosive properties	No information available.
Oxidising properties	The product contains a substance classified as oxidising.

9.2. Other information

Other information No information required.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity See the other subsections of this section for further details.



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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 No information available.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Materials to avoid Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

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.
LD₅₀ >2000 mg/kg, Oral, Mouse

Acute toxicity - dermal

Notes (dermal LD₅₀) Based on available data the classification criteria are not met.
LD₅₀ >5000 mg/kg, Dermal,

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 Based on available data the classification criteria are not met.

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.

Reproductive toxicity

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



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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.
Inhalation	No specific symptoms known.
Ingestion	No specific symptoms known.
Skin contact	Prolonged contact may cause dryness of the skin.
Eye contact	No specific symptoms known.
Route of exposure	Ingestion Inhalation Skin and/or eye contact
Target organs	No specific target organs known.

11.2. Information on other hazards

Information on other hazards

Toxicological information on ingredients.

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)
LD₅₀ 2217 mg/kg, Oral, Rat [Europe Chemicals Bureau, IUCLID, January 22, 2007]
LD₅₀ 4500 mg/kg, Oral, Rat [{Canada Environment, Tech Info for Problem Spills: s.59 (1981)}]
LD₅₀ 2800 mg/kg bw/d, Oral, Rat [Europe Chemicals Bureau, IUCLID, January 22, 2007]

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. Low acute toxicity to aquatic organisms.

Ecological information on ingredients.



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Ammonium nitrate

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hour: 447 mg/l, Cyprinus carpio (Common carp)
LC₅₀, 48 hour: 1,15-1,72 mg NH₃/L , Cyprinus carpio (Common carp)
LC₅₀, 96 hour: 420-1360 mg NO₃/L ,

Acute toxicity - aquatic invertebrates EC₅₀ , : 555 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀ , : 83 mg/l, Scenedesmus quadricauda

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates NOEC, Max. 7 day: 300 mg/l, Bullia digitalis

12.2. Persistence and degradability

Persistence and degradability The degradability of the product is not known.

Ecological information on ingredients.

Ammonium nitrate

Persistence and degradability It can be resolvable spontaneously in the nature.

12.3. Bioaccumulative potential

Bioaccumulative potential The product is not bioaccumulating.

Ecological information on ingredients.

Ammonium nitrate

Bioaccumulative potential Bioaccumulation is unlikely.

Partition coefficient No information available.

12.4. Mobility in soil

Mobility No data available.

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

No data available.

Endocrine disrupting properties

Ecological information on ingredients.



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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

There are no known conditions that are likely to result in a hazardous situation.

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

The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

Disposal methods

Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Incineration or landfill should only be considered when recycling is not feasible.

SECTION 14: Transport information

14.1. UN number or ID number

UN No. (ADR/RID)	1486
UN No. (IMDG)	1486
UN No. (ICAO)	1486
UN No. (ADN)	1486

14.2. UN proper shipping name

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

14.3. Transport hazard class(es)

ADR/RID class	5.1
ADR/RID classification code	O2
ADR/RID label	5.1



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IMDG class 5.1

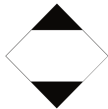
ICAO class/division 5.1

ADN class 5.1

Transport labels



Transport additional labels



Limited quantity

For limited quantity packaging/limited load information, consult the relevant modal documentation using the data shown in this section.

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

EmS F-A, 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

14.7. Maritime transport in bulk according to IMO instruments

Maritime transport in bulk according to IMO instruments Not relevant.



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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). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]. EH40/2005 Workplace exposure limits.
Authorisations (SI 2020 No. 1577 Annex XIV)	This product contains a substance that is included in REGULATION (EC) No 1907/2006 (REACH) ANNEX XVII - RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES Entry number: 58
Restrictions (Annex XVII Regulation 1907/2006)	Amonyum Nitrat (AN) CAS No: 6484-52-2
Seveso Directive - Control of major accident hazards	Not relevant.

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). EC ₅₀ : 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
Key literature references and sources for data	Source: European Chemicals Agency, http://echa.europa.eu/
Classification procedures according to SI 2019 No. 720 and Regulation (EC) No. 1272/2008	Ox. Sol. 3 - H272: : Expert judgement.
Training advice	Only trained personnel should use this material.
Revision comments	This is the first issue.

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Issued by	Büşra Tarakci / CRAD gbf@crad.com.tr Tel.:+90 216 3354600
Note to organizer	The certificate information is used exclusively for this SDS. No changes can be made to this SDS without the knowledge and approval of the certificate holder or the certificate information can not be used for another SDS. Otherwise, the certificate will assume no responsibility for the owner SDS.
Revision date	22/12/2022
Revision	2.0
Supersedes date	05/02/2021
SDS number	10996
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.