

Ammonium Nitrate 33% N

Safety Data Sheet

EC) No. According to Regulation 1907/2006 (REACH) and its amendment Regulation (EU) 2020/878 and published in the Official Gazette No. 30105 dated 23 June 2017, Registration, Evaluation, Authorization and Control of Chemicals

It has been prepared in accordance with the Regulation on Restrictions.

Date of publication:

Revision date: 08.08.2024

Version: 4.0

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

1.1. Product identifier

Product name : Ammonium Nitrate 33% N

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

1.2.1. Relevant identified uses

EC Fertilizer

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer

Gemlik Gübre San. A.Ş.
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T +90 224 519 00 70-84 - F +90 224 519 00 85
info@gemligubre.com.tr - www.gemligubre.com.tr

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info@reach-gs.eu - <http://www.reach-gs.eu>

1.4. Emergency telephone number

Emergency number : +90 224 519 00 70-84 (Not available outside office hours) (08:00-18:00 - GMT+3)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Oxidising Solids, Category 3 H272

Serious eye damage/eye irritation, Category 2 H319

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

May intensify fire; oxidiser. Causes serious eye irritation.

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS03



GHS07

Signal word (CLP) :

Warning

Hazard statements (CLP) :

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

Precautionary statements (CLP) :

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P220 - Keep away from clothing and other combustible materials.
P264 - Wash hands, forearms and face 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.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P370+P378 - In case of fire: Use media other than water to extinguish.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Ammonium nitrate	(CAS-No.) 6484-52-2 (EC-No.) 229-347-8 (REACH-No.) 01-2119490981-27-XXXX	> 94	Ox. Sol. 3, H272 Eye Irrit. 2, H319
Non-hazardous additives as dolomite, calcium carbonate or limestone	-	< 5.72	Not classified

Specific concentration limits:

Name	Product identifier	Specific concentration limits
Ammonium nitrate	(CAS-No.) 6484-52-2 (EC-No.) 229-347-8 (REACH-No.) 01-2119490981-27-XXXX	(80 =<C < 100) Eye Irrit. 2, H319

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
- First-aid measures after skin contact : Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Do NOT induce vomiting. Give nothing or a little water to drink. Call a poison center or a doctor if you feel unwell.

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

- Symptoms/effects after inhalation : Symptoms of irritation include coughing, sore throat, and shortness of breath. At high temperatures, exposure to toxic nitrogen oxides decomposition products can quickly cause acute respiratory problems. Inhalation of large amounts causes systemic acidosis and abnormal hemoglobin. Symptoms may be delayed.
- Symptoms/effects after skin contact : Symptoms of irritation to skin include redness, itching, and pain.
- Symptoms/effects after eye contact : Causes irritation, redness, swelling, excessive tearing, light sensitivity and pain.
- Symptoms/effects after ingestion : Large oral doses of nitrates may cause dizziness, abdominal pain, vomiting, bloody diarrhea, weakness, convulsions, and collapse. May cause methemoglobinemia resulting in cyanosis.

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

Treat symptomatically. Keep victim under observation.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Flood fire area with water from a distance.
- Unsuitable extinguishing media : Foam. Carbon dioxide. Dry powder. Halons.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : May intensify fire; oxidiser. Ammonium nitrate has a fire promoting effect due to oxidising properties. Sealed bags or IBC containers may explode when heated. High velocity projectiles can be generated in a fire. Fire extinguishing water can contaminate surface water and ground water systems.
- Hazardous decomposition products in case of fire; : Toxic fumes may be released; mainly nitrogen oxides.

5.3. Advice for firefighters

- Firefighting instructions : Continue supervision of fire until there is no further risk of melting, decomposition or recurrence of fire. If necessary keep adjacent stacks, that are not on fire, cool by spraying the sides of containers with water. Use water sprays to cool fire-exposed product stacks (including IBC containers), structures and to disperse or suppress (knock down) eventual gases/vapours/mists and to protect personnel. Avoid direct water jet impingement. Do not approach product stacks suspected to be burning. If safe and practicable to do so, remove product stacks from the path of fire. Avoid disposal of contaminated firefighting water to the environment. Prevent spillage from entering drains or waterways. Consider evacuation. Equipment should be thoroughly decontaminated after use.
- Protection during firefighting : Wear approved self-contained breathing apparatus (SCBA) operated in positive pressure mode to protect from the toxic fumes of decomposing ammonium nitrate, and protective clothing to guard against possible molten nitrate splashes should also be worn. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Wear protective equipment to prevent contact with skin and eyes.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Protective equipment : Those dealing with major releases should wear full protective clothing including respiratory protection.
- Emergency procedures : Remove sources of heat and ignition. Avoid inhalation of dust. Observe emergency procedures. Evacuate danger area if necessary.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
- Emergency procedures : Spills that have become contaminated with organic matter or other combustible material may present a fire and explosion hazard. Evacuate unnecessary personnel. Isolate source of release as quickly as possible.

6.2. Environmental precautions

Do not empty into drains and sewers. Keep from entering to water and ground water systems. Contain spillage where possible and safe to do so. Inform appropriate authority in case of accidental contamination of watercourses or drains. Dilute large spills with water and neutralise with soda ash, before discharging contaminated material into treatment plants or treat like in subsection 6.3.

6.3. Methods and material for containment and cleaning up

- Large spill : Put spills into noncombustible container and dissolve in large amount of water, minimal amount 50 %. Add soda ash and then mix and neutralize with 6M-HCl. Send the neutralized sludge to an approved waste disposal facility.
- Small spill : Collect dry, put into clean and closed container. Clean up affected area. After cleanup, contaminated area should be washed down with water. Send to an approved waste disposal facility.

6.4. Reference to other sections

For personal protection equipment see section 8. For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : **Protective measures**
Observe label precautions. Provide adequate ventilation.
- Measures to prevent fire**
Keep away from open flames, hot surfaces and sources of ignition. Keep away from incompatible substances. Keep walls, floors and equipment clean.
- Measures to prevent dust formation**
Avoid dust formation. Use closed systems where appropriate.
- Measures to protect the environment**
Keep away from drains, sewers and water systems.
- Hygiene measures : Do not eat, drink and smoke in work areas. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : **Technical measures and storage conditions**
Store in cool, dry and well ventilated area; away from incompatible materials, heat, ignition source and direct sunlight. Storage temperature preferably below 30 0C. Keep containers tightly closed.
- Packaging materials**
Only original containers and materials that original containers are made of.
- Requirements for storage and storage rooms**
Store in separate building or bays, away from combustible materials at least 8 m or use an inert material barriers of at least 1.5 m width. Outside the storage there should be no combustible material within 8 m and no standing timber within 15 m distance.
Storage construction should be of non-combustible materials.
- Further information on storage conditions**
Provide appropriate exhaust ventilation and continual observing and monitoring. Storage preferably equipped with an automatic sprinkler system.
Keep vehicles, forklift trucks and all other equipment to use in storage area, clean and well maintained to prevent contact with incompatible materials. Install main electrical switches and fuses outside the storage area. Do not store closer than 1 m to walls, roof and electrical wiring or lighting.

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Recommendations for safe storage

: The maximum product bag stack size is determined with type of packaging:

for products in bags up to 50 kg - up to 2 m

for products on palletes - two palletes in a stack

for products in big-bags 500 kg - three rows in a vertical stack

for products in big-bags > 1000 kg - two rows in a vertical stack.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

No additional information available

DNEL/PNEC values

Ammonium nitrate (6484-52-2)		
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal	21.3 mg/kg bw/day	Route-to-route extrapolation has been performed.
Long-term - systemic effects, inhalation	37.6 mg/m³	Route-to-route extrapolation has been performed.
DNEL/DMEL (General population)		
Long-term - systemic effects,oral	12.8 mg/kg bw/day	Route-to-route extrapolation has been performed.
Long-term - systemic effects, inhalation	11.1 mg/m³	Route-to-route extrapolation has been performed.
Long-term - systemic effects, dermal	12.8 mg/kg bw/day	Route-to-route extrapolation has been performed.
PNEC (Water)		
PNEC aqua (freshwater)	0.45 mg/l (AF: 1000)	Extrapolation method: assessment factor.
PNEC aqua (marine water)	0.045 mg/l (AF: 10000)	Extrapolation method: assessment factor.
PNEC aqua (intermittent)	4.5 mg/l (AF: 100)	Extrapolation method: assessment factor.
PNEC (Sediment)		
PNEC sediment	No or insufficient data available at present.	
PNEC (Soil)		
PNEC soil	No or insufficient data available at present.	
PNEC (Oral)		
PNEC oral (secondary poisoning)	No potential for bioaccumulation. Secondary poisoning is not considered a relevant route.	
PNEC (STP)		
PNEC sewage treatment plant	18 mg/l (AF: 10)	Extrapolation method: assessment factor.

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Eye protection:

Wear safety goggles, face-shield or visor.

Skin and body protection:

Wear protective work clothing and footwear. In case of potential dermal contact use impervious chemical resistant protective gloves and suitable and approved protective clothing, aprons, shield and suits, rubber or plastic boots.

Respiratory protection:

Use respiratory protection with approved filter: half-mask with filter type for dust and half-gas-mask with filter for decomposition gases. See section 5.

Environmental exposure controls:

Do not empty into drains, sewers, water and ground water systems. See section 6.

Remark: An environmental assessment as a part of CSA has not been performed. Indirect exposure of humans via environment are therefore not relevant and the leading effect is eye irritation which should not be considered relevant for the route man exposed via the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid (prills, no inhalable fraction, granulation between 0,5 -5 ,0 mm) at 20 °C and 1013 hPa.
Colour	: Transparent to white colour
Odour	: Odourless
Odour threshold	: Study scientifically unjustified.

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pH	: Does not need to be conducted in case the substance is solid as supplied.
Evaporation rate	: Study scientifically unjustified.
Melting / Freezing point	: 169.6 - 169.7 °C
Boiling point	: Does not need to be conducted in case the substance decomposes before boiling.
Flash point	: Does not need to be conducted in case the substance decomposes before boiling.
Auto-ignition temperature	: Will not auto-ignite at temperatures between room temperature and melting point.
Decomposition temperature	: ≥ 210 °C
Flammability (solid, gas)	: Non flammable (NFPA).
Vapour pressure	: Vapour pressure at room temperature is considered negligible due to particle size.
Vapour density	: Testing may be omitted if testing does not appear scientifically necessary.
Density	: 1.72 g/cm ³ (20 °C)
Solubility	: Water: > 100 g/l (20 °C)
Log Pow	: Does not need to be conducted in case the substance is inorganic.
Viscosity	: Study scientifically unjustified. Viscosity is only relevant to liquids.
Explosive properties	: Not classified as an explosive.
Oxidising properties	: Oxidising Solids, Category 3
Explosive limits	: Non flammable (NFPA). Not classified as an explosive.

9.2. Other information

Substance is hygroscopic.

SECTION 10: Stability and reactivity

10.1. Reactivity

Strong oxidizer that reacts violently with combustible and reducing chemicals.

10.2. Chemical stability

Products are stable when handled and stored according to provisions (see section 7. Handling and storage).

10.3. Possibility of hazardous reactions

Ammonium nitrate to present an explosion hazard involve a combination of factors:

storage in multiple tonnes, contamination with e.g. metals, acids, organics and excessive heat e.g. under condition of fire.

Violent reaction or explosion: when contaminated with oil, diesel fuel, charcoal, sulfur, metal fines or other combustible substances could possibly cause an explosion.

Ignites or may react violently as an explosion with: combustible or incompatible materials, such as powdered metals, alkali metals, urea, chromium or copper salts, organic and carbonaceous materials, sulphur, nitrites, alkalis, acids, chlorates and reducing agents.

Powdered metals that react violently or explosively with fused ammonium nitrate below 200°C: aluminum, antimony, bismuth, cadmium, chromium, cobalt, copper, iron, lead, magnesium, manganese, potassium, sodium, nickel, tin, zinc, titanium, as well as brass and stainless steel.

Ignites or reacts violently with: phosphorus, potassium nitrite, sawdust, sugar, trinitroanisole, cyanoguanidine (dicyanodiamide), potassium permanganate, acetic acid, acetic anhydride.

10.4. Conditions to avoid

Avoid product overheating condition and contact with incompatible materials.

10.5. Incompatible materials

- Combustible materials because of fire hazard and thermal radiation,
- Chemically unstable materials giving reactive or explosive mixtures with ammonium nitrate,
- Materials releasing toxic fumes in a fire or reaction with ammonium nitrate.

10.6. Hazardous decomposition products

Hazardous decomposition products as a result of use, storage, spill, heating and in contact with incompatible materials: may give off poisonous oxides of nitrogen (NO, NO₂).

For hazardous combustion products under condition of fire see section 5. Firefighting measures.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Conclusive but not sufficient for classification.

Exposure route	Method	Result – effect dose	Reference / test material	Remark
Oral	Rat	LD50: 2950 mg/kg	Hazleton (1981) / ammonium nitrate	All oral acute toxicity studies with reliability 4 reported LD50 values > 2000 mg/kg bw.
Dermal	Rat	LD50: 5000 mg/kg	Merkel, D.J. (2000) / ammonium nitrate	Based on reliable OECD 402 acute dermal toxicity study.

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Exposure route	Method	Result – effect dose	Reference / test material	Remark
Inhalation	-	Not tested	- / ammonium nitrate	Vapour pressure is negligible and particle size shows no inhalable fraction.

Skin corrosion/irritation : Conclusive but not sufficient for classification.

Serious eye damage/irritation : Causes serious eye irritation. Serious eye damage/eye irritation, Category 2

Exposure route	Method	Result – effect dose	Reference / test material	Remark
Respiratory tract	No available information	Not irritating	- / ammonium nitrate	Based on reliable skin and eye irritation studies.
Skin	Rabbit	Not irritating	J.R. Jones (1983) / ammonium nitrate	2 (reliable with restrictions).
Eye	Rabbit	Irritating	Hansen E. (2008) / ammonium nitrate	2 (reliable with restrictions). Hansen E. and group of authors.

Respiratory or skin sensitisation : Conclusive but not sufficient for classification. Reliable studies with magnesium nitrate, sodium nitrate and nitric acid ammonium calcium salt are present. All inorganic nitrate substances show no skin sensitisation.

Exposure route	Method	Result – effect dose	Reference / test material	Remark
Respiratory system	No available information	Not sensitising	-	No reliable study is available for this endpoint.
Skin	Mouse	Not sensitising	C.G.M.Beerens-Heijnen (2010) / CAS no: 15245-12-2	1 (reliable without restriction).

Germ cell mutagenicity : Conclusive but not sufficient for classification. Based on available data and in accordance with column 2 of REACH Annex VII to X, no in vivo genotoxicity studies are required, as the in vitro toxicity study results are negative.

Exposure route	Method	Result – effect dose	Reference / test material	Remark
Cytotoxicity, gene mutation	Mouse	Negative genetic toxicity	C.M. Verspeek-Rip (2010) / CAS number: 7757-79-1	1 (reliable without restriction).

Carcinogenicity : Conclusive but not sufficient for classification. According to Column 2 of REACH Annex X, a study may be proposed if the substance is classified as mutagen. As the substance is considered not genotoxic, performance of a carcinogenicity study is not considered appropriate.

Reproductive toxicity : Conclusive but not sufficient for classification.

Exposure route	Method	Result – effect dose	Reference / test material	Remark
Effects on fertility, oral	Rat	NOAEL: ≥1500 mg/kg bw/day	Product Safety Labs (2002b) / CAS number: 7757-79-1	1 (reliable without restriction), OECD 422 study.
Developmental toxicity, oral	Rat	NOAEL: ≥1500 mg/kg bw/day	Product Safety Labs (2002c) / CAS number: 7757-79-1	1 (reliable without restriction), OECD 422 study.

STOT-single exposure : Conclusive but not sufficient for classification.

STOT-repeated exposure : Conclusive but not sufficient for classification.

Aspiration hazard : Conclusive but not sufficient for classification.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Acute aquatic toxicity : Not classified

Chronic aquatic toxicity : Not classified

Remark : The European standard for nitrates in drinking water is a maximal concentration of 50 mg/l.

Toxicity	Method	Result – effect dose	Reference / test material	Remark
Acute fish toxicity	Cyprinus carpio Freshwater static	LC50 (48 h): 447 mg/l	Dabrowska, H. & Sikora, H. (1986) / ammonium nitrate	2 (reliable with restrictions) key study experimental result
Acute invertebrates toxicity	Daphnia magna freshwater	EC50 (24 h): 490 mg/l	Dowden, B.F. & Bennett H.J. (1965) / CAS no:7757-79-1	2 (reliable with restrictions) key study read-across from supporting substance
Acute algae toxicity	only worst case results freshwater	EC50/LC50: 1700 mg/l EC10/LC10 (NOEC): 1700 mg/l	- / potassium nitrate	3 reliable reports

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Toxicity	Method	Result – effect dose	Reference / test material	Remark
Chronic fish toxicity	No data	No data	No data	All data available show a very low toxicity of ammonium nitrate
Chronic invertebrates toxicity	Bullia digitalis saltwater static	EC50 (7 d): 555 mg/l	Brown, A.C. and Currie, A.B. (1973) / ammonium nitrate	4 (not assignable) supporting study experimental result
Chronic algae toxicity	several benthic diatoms saltwater	EC50 (10 d): > 1700 mg/l	Admiraal W. (1977) / CAS number: 7757-79-1	2 (reliable with restrictions) key study read-across from supporting substance

12.2. Persistence and degradability

Abiotic degradation

Ammonium nitrate is completely dissociated in water. No other information required/available. According to inorganic nature of the substance, standard tests for biodegradability are not applicable.

Physical- and photo-chemical elimination

The substance does not hydrolyze and there is no evidence for photodegradation/phototransformation. This is not a required REACH endpoint either.

Biodegradation

Due to inorganic nature of the substance, standard biodegradation testing systems are not applicable and according to the guidance on information requirements and chemical safety assessment, Chapter R7b, biodegradability testing is not required for an inorganic substance.

	Method	Result – effect dose	Reference / test material	Remark
Biodegradation	Biodegradation Sewage treatment	No data	Environmental Canada (1984a), Schlegel, S. (1983) / ammonium nitrate	4 (not assignable) supporting study Study scientifically unjustified

12.3. Bioaccumulative potential

Simple inorganic salts with high aqueous solubility exist in a dissociated form in an aqueous solution.

Ammonium nitrate (6484-52-2)	
Partition coefficient n-octanol/ water (log Kow)	See section 9. Physical and chemical properties.
Bioconcentration factor (BCF)	Based on the high water solubility and the ionic nature, the substance is not expected to bioaccumulate.

12.4. Mobility in soil

Known or predicted distribution to environmental compartments

The aquatic compartment is target compartment of ammonium nitrate considering its physico-chemical properties and inorganic nature.

Surface tension

No surface activity is expected. In accordance with Column 2 of REACH Annex VII, surface tension (required in section 7.6) does not need to be conducted in case no surface activity is expected nor is a desired property.

Adsorption/desorption

The substance has a very high water solubility and its chemical properties do not indicate adsorption to soil or sediment.

12.5. Results of PBT and vPvB assessment

The criteria for the identification of PBT/vPvB properties, as laid down in REACH Annex XIII do not apply to inorganic substances.

12.6. Other adverse effects

Nitrates transform to nitrogen (N₂), nitrogen oxide (N₂O) and ammonia (NH₃) at anaerobic environmental conditions.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Dispose in a safe manner in accordance with local/national regulations.
Waste treatment methods	: This material and its container must be disposed of as hazardous waste.
Product/Packaging disposal recommendations	: Mix and neutralize with 6M-HCl. Neutralized sludge may be contained in a tightly sealed container and sent to an approved waste disposal facility.
Additional information	: Do not re-use empty containers. Prevent entry to sewers and public waters.
European List of Waste (LoW) code	: 06 10 02* - wastes containing dangerous substances

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
2067	2067	2067	2067	2067

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ADR	IMDG	IATA	ADN	RID
14.2. UN proper shipping name				
AMMONIUM NITRATE BASED FERTILIZER	AMMONIUM NITRATE BASED FERTILIZER	Ammonium nitrate based fertilizer	AMMONIUM NITRATE BASED FERTILIZER	AMMONIUM NITRATE BASED FERTILIZER
Transport document description				
UN 2067 AMMONIUM NITRATE BASED FERTILIZER, 5.1, III, (E)	UN 2067 AMMONIUM NITRATE BASED FERTILIZER, 5.1, III	UN 2067 Ammonium nitrate based fertilizer, 5.1, III	UN 2067 AMMONIUM NITRATE BASED FERTILIZER, 5.1, III	UN 2067 AMMONIUM NITRATE BASED FERTILIZER, 5.1, III
14.3. Transport hazard class(es)				
5.1	5.1	5.1	5.1	5.1
				
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No

14.6. Special precautions for user

- Overland transport

Classification code (ADR)	: O2
Special provisions (ADR)	: 186, 306, 307
Limited quantities (ADR)	: 5kg
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P002, IBC08, LP02, R001
Special packing provisions (ADR)	: B3
Mixed packing provisions (ADR)	: MP10
Portable tank and bulk container instructions (ADR)	: T1, BK1, BK2, BK3
Portable tank and bulk container special provisions (ADR)	: TP33
Tank code (ADR)	: SGAV
Tank special provisions (ADR)	: TU3
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Bulk (ADR)	: VC1, VC2, AP6, AP7
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV24
Special provisions for carriage - Operation (ADR)	: S23
Hazard identification number (Kemler No.)	: 50
Orange plates	: 

Tunnel restriction code (ADR)	: E
EAC code	: 1Z

- Transport by sea

Special provisions (IMDG)	: 186, 306, 307, 900, 967
Packing instructions (IMDG)	: P002, LP02
IBC packing instructions (IMDG)	: IBC08
IBC special provisions (IMDG)	: B3
Tank instructions (IMDG)	: T1, BK2, BK3
Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-H
EmS-No. (Spillage)	: S-Q



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Stowage category (IMDG)	: C
Stowage and handling (IMDG)	: SW1, SW14, SW23
Segregation (IMDG)	: SG16, SG42, SG45, SG47, SG48, SG51, SG56, SG58, SG59, SG61
Properties and observations (IMDG)	: Crystals, granules or prills. Wholly or partly soluble in water. Supporters of combustion. A major fire aboard a ship carrying these substances may involve a risk of explosion in the event of contamination (e.g. by fuel oil) or strong confinement. An adjacent detonation may also involve a risk of explosion. If heated strongly, decompose, giving off toxic gases and gases which support combustion. Transport of AMMONIUM NITRATE liable to self-heating sufficient to initiate decomposition is prohibited.

- Air transport

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y546
PCA limited quantity max net quantity (IATA)	: 10kg
PCA packing instructions (IATA)	: 559
PCA max net quantity (IATA)	: 25kg
CAO packing instructions (IATA)	: 563
CAO max net quantity (IATA)	: 100kg
Special provisions (IATA)	: A64, A79, A89
ERG code (IATA)	: 5L

- Inland waterway transport

Classification code (ADN)	: O2
Special provisions (ADN)	: 186, 306, 307
Limited quantities (ADN)	: 5 kg
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: B
Equipment required (ADN)	: PP
Provisions prior to loading (ADN)	: LO04
Provisions for carriage in bulk (ADN)	: CO02, ST01
Provisions for handling and stowage of the cargo (ADN)	: HA09
Number of blue cones/lights (ADN)	: 0
Additional requirements/Remarks (ADN)	: CO02, LO04 and HA09 apply only when this substance is carried in bulk or without packaging

- Rail transport

Classification code (RID)	: O2
Special provisions (RID)	: 186, 306, 307
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P002, IBC08, LP02, R001
Special packing provisions (RID)	: B3
Mixed packing provisions (RID)	: MP10
Portable tank and bulk container instructions (RID)	: T1, BK1, BK2, BK3
Portable tank and bulk container special provisions (RID)	: TP33
Tank codes for RID tanks (RID)	: SGAV
Special provisions for RID tanks (RID)	: TU3
Transport category (RID)	: 3
Special provisions for carriage - Bulk (RID)	: VC1, VC2, AP6, AP7
Special provisions for carriage - Loading, unloading and handling (RID)	: CW24
Colis express (express parcels) (RID)	: CE11
Hazard identification number (RID)	: 50

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations



Ammonium Nitrate 33% N

Safety Data Sheet

EC) No. According to Regulation 1907/2006 (REACH) and its amendment Regulation (EU) 2020/878 and published in the Official Gazette No. 30105 dated 23 June 2017, Registration, Evaluation, Authorization and Control of Chemicals
It has been prepared in accordance with the Regulation on Restrictions.

Date of publication:

Revision date: 08.08.2024

Version: 4.0

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

Germany

Reference to AwSV

: Water hazard class (WGK) 1, low hazard to waters (Classification according to AwSV, Annex 1)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV

: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen

: None of the components are listed

SZW-lijst van mutagene stoffen

: None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Borstvoeding

: None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Vruchtbaarheid

: None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Ontwikkeling

: None of the components are listed

15.2. Chemical safety assessment

In accordance with Article 14 of Regulation EC No 1907/2006, a Chemical Safety Assessment has been carried out for ammonium nitrate.

SECTION 16: Other information

Full text of H- and EUH-statements:

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Ox. Sol. 3	Oxidising Solids, Category 3
H272	May intensify fire; oxidiser.
H319	Causes serious eye irritation.

Other information

: This document has been prepared and approved by Gemlik Gübre Sanayii A.Ş. and certified by MAVİ YEŞİL DANIŞMANLIK accredited experts who are certified by the Regulation on Safety Data Sheets on Hazardous Substances and Mixtures, dated December 13, 2014 and numbered 29204 .

Expert: Beyza SEVİM

Expert Accreditation No: NBC04.69.01&26.03.2024

Effective Date: 26.03.2029

Validity Period: 5 YEARS

- . Key information sources used in the arrangement of this safety data sheet;
- Safety data sheet / form prepared by the manufacturer for the product
 - "Regulation on Safety Data Sheets for Hazardous Substances and Mixtures" and its annexes,
 - "Regulation on the Classification, Labeling and Packing of Materials and Mixtures" and its annexes
 - "Regulation on Health and Safety Precautions for Carcinogenic and Mutagenic Work" and its annexes,
 - Other relevant local regulations
 - ADR, AND, RID, IMDG, IATA lists, ECHA and related EU directives,

The information provided in this Safety Data Sheet is based on our current best practices, knowledge and beliefs as of the date of preparation. The information provided is designed to be a guide for safe handling, handling, handling, storage, transport, disposal and disposal. This information applies only to the specified substance / mixture, unless otherwise specified in the documentation, and may not apply if this substance is used in combination with other substances or if any other procedure is used. Please observe the information in the Safety Data Sheet for use. This information is based on our current knowledge. This Safety Data Sheet defines the product according to the appropriate safety regulations, but does not guarantee the safety of the product. It does not constitute a guarantee and the product specifications do not establish a legally valid contractual relationship.

SDS Turkey

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product