

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 10 March 2020 Revision date: 26 March 2020

Supersedes: 10 March 2020

Version: 1.1

SECTION 1: Identification				
1.1. Identification				
Product form	: Mixture			
Trade name	: UAN-32			
Synonyms	: UAN-30	/ UAN-28		
1.2. Recommended use and restriction	ons on use			
Use of the substance/mixture	: Fertilizer			
1.3. Supplier				
Acron USA Inc.				
20803 Biscayne Blvd				
Suite 505				
Aventura, FL 33180				
Tel:+1 (954) 455 5600				
Email: acron.usa@acron.com				
1.4. Emergency telephone number				
Emergency number	: Call CHE	EMTREC – Day or Night		
	1 703-74	1-5970 / 1 800-424-9300		
SECTION 2: Hazard(s) identification				
2.1. Classification of the substance o	r mixture			
GHS US classification				
Serious eye damage/eye irritation Category	2A Causes serie	ous eye irritation		
2.2. GHS Label elements, including p		tomonto		
2.2. GHS Label elements, including p GHS US labeling	recautionary sta	liements		
Hazard pictograms (GHS US)				
Signal word (GHS US) Hazard statements (GHS US)	: Warning	serious eye irritation		
		ands thoroughly after hand	lling	
Precautionary statements (GHS US)		e protection.	an iy.	
	IF IN EÝ	ES: Rinse cautiously with	water for several	I minutes. Remove contact lenses, if presen
		y to do. Continue rinsing. tation persists: Get medic	al advice/attentia	n
	n eye ini	itation persists. Get medic	ai auvice/alteritio	11.
2.3. Other hazards which do not resu	It in classificatio	on		
Other hazards not contributing to the			quantities. Overe:	xposure to this material may result in
classification		oglobinemia.		. ,
2.4. Unknown acute toxicity (GHS US)			
Not applicable				
SECTION 3: Composition/Informa	tion on ingre	dients		
3.1. Substances				
Not applicable				
3.2. Mixtures				
Name		Product identifier	%	GHS US classification
Ammonium nitrate		(CAS-No.) 6484-52-2	38 – 47	Ox. Sol. 3, H272

Name	Product Identifier	%	GHS US classification
Ammonium nitrate	(CAS-No.) 6484-52-2	38 – 47	Ox. Sol. 3, H272 Eye Irrit. 2A, H319
Urea	(CAS-No.) 57-13-6	29 – 36	Not classified

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Name		Product identifier	%	GHS US classification
Water		(CAS-No.) 7732-18-5	18.5 – 31.5	Not classified
SECTION 4: First-aid measures				
.1. Description of first aid measures	i			
First-aid measures general	: If you fe	el unwell, seek medical adv	ice (show the label w	/here possible).
First-aid measures after inhalation	: Remove	e person to fresh air and kee	p comfortable for bre	eathing.
First-aid measures after skin contact	: Wash sl develop	0,	p and water. Seek m	edical attention if ill effect or irritation
First-aid measures after eye contact	minimur		if present and easy t	ell away from the eye (15 minutes o do. Continue rinsing. If eye irritatio
First-aid measures after ingestion	: Rinse m	outh. Do NOT induce vomit	ing. Obtain emergen	cy medical attention.
.2. Most important symptoms and e	ffects (acute and	d delayed)		
Symptoms/effects after inhalation	: May cau	use minor irritation to the res	piratory tract and to	other mucous membranes.
Symptoms/effects after skin contact	: May cau	use slight temporary irritatior	٦.	
Symptoms/effects after eye contact	: Causes	serious eye irritation.		
Symptoms/effects after ingestion		use gastric irritation. Overex use cyanosis.	posure to this materia	al may result in methemoglobinemia

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically. Methylene blue is an effective antidote for symptomatic methemoglobinemia.

SECTION 5: Fire-fighting meas	ures
5.1. Suitable (and unsuitable) exti	nguishing media
Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Specific hazards arising from	the chemical
Fire hazard	 Could decompose explosively when heated or involved in a fire. On combustion forms: Nitrogen oxides. Ammonia. Toxic gases.
Explosion hazard	: Explosion risk in case of fire. Do not allow product to dry out.
5.3. Special protective equipment	and precautions for fire-fighters
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release	modelite
	tive equipment and emergency procedures
General measures	: Evacuate unnecessary personnel.
6.1.1. For non-emergency personne	Al de la construcción de la constru
Protective equipment	: Wear suitable protective clothing. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Avoid contact with skin and eyes.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Ventilate spillage area. Stop leak if safe to do so. Do not allow product to dry out.
6.2. Environmental precautions	
Prevent entry to sewers and public waters	s. Notify authorities if liquid enters sewers or public waters.
6.3. Methods and material for con	tainment and cleaning up
For containment	: Collect spillage. Do not use sawdust or other combustible material to absorb spilled material. Take up large spills with pump or vacuum.
Methods for cleaning up	 Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Store away from other materials. Collect all waste in suitable and labeled containers and dispose according to local legislation.
Other information	: Dispose of at a licensed waste collection center.
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6.4. Reference to other sections

For disposal of residues refer to section 13 : "Disposal considerations". For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	Do not allow product to dry out. Keep away from heat and direct sunlight. Ensure that there is a suitable ventilation system. Explosive compounds are formed on contact with : Nitric acid, Metallic powders, Reducing agents.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Always wash hands after handling the product. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, includin	g any incompatibilities
Storage conditions	: Store in a dry, cool and well-ventilated place. Keep container tightly closed.
Incompatible materials	: Metals. Metallic powders. Acids. Alkali. Strong oxidizing agents. Strong reducing agents. Nitric

acid. Copper alloys. Chlorates. Brass.

SECTION 8: Exposure controls/personal protection

8.1. 1. Control parameters	
UAN-32	
No additional information available	
Ammonium nitrate (6484-52-2)	
No additional information available	
Urea (57-13-6)	
USA - AIHA - Occupational Exposure Limit	S
WEEL TWA (mg/m ³)	10 mg/m ³
Water (7732-18-5)	
No additional information available	
8.2. Appropriate engineering controls	
Appropriate engineering controls	: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Environmental exposure controls	: Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.
8.3. Individual protection measures/Pers	sonal protective equipment
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Hand protection:

Impermeable protective gloves

Eye protection:

Chemical goggles or safety glasses

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties		
9.1. Information on basic p	ysical and chemical properties	
Physical state	: Liquid	
Appearance	: Colorless.	
Color	: Colorless to Slightly coloured	
Odor	: Faint odour of ammonia	
Odor threshold	: No data available	

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рН	:	6.5 – 7.1
Melting point	:	No data available
Freezing point	:	2 °C (35.6 °F)
Boiling point	:	107 °C (224 °F)
Flash point	:	No data available
Relative evaporation rate (butyl acetate=1)	:	No data available
Flammability (solid, gas)	:	Not applicable.
Vapor pressure	:	No data available
Relative vapor density at 20 °C	:	No data available
Relative density	:	No data available
Specific gravity / density	:	1255 – 1326 kg/m³ (40 °C; 104 °F)
Solubility	:	Miscible with water.
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosion limits	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions of use. Explosive compounds are formed on contact with : Nitric acid. Reducing agents. Metallic powders.

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

Decomposes on heating. Heating may cause an explosion. Refer to the detailed list of incompatible materials in section 10 Stability/Reactivity.

10.4. Conditions to avoid

Do not allow product to dry out. Do not mix with other chemicals. Keep out of direct sunlight. Keep away from heat.

10.5. Incompatible materials

Metals. Metallic powders. Acids. Alkali. Strong oxidizing agents. Strong reducing agents. Nitric acid. Chlorates. Brass.

10.6. Hazardous decomposition products

At high temperature may liberate toxic gases.

SECTION 11: Toxicological information	on
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)
Ammonium nitrate (6484-52-2)	
LD50 oral rat	2217 – 2950 mg/kg
LD50 dermal rat	> 5000 mg/kg
LC50 inhalation rat (mg/l)	> 88800 mg/m ³
Urea (57-13-6)	
LD50 oral rat	5000 – 15000 mg/kg
LC50 inhalation rat (mg/l)	Urea dust at 22 mg/m3 caused mild irritation (species not specified)
Water (7732-18-5)	
LD50 oral rat	> 90 ml/kg

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Skin corrosion/irritation	 Not classified (Based on available data, the classification criteria are not met) pH: 6.5 – 7.1
Serious eye damage/irritation	: Causes serious eye irritation. pH: 6.5 – 7.1
Respiratory or skin sensitization	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
Viscosity, kinematic	: No data available
Symptoms/effects after inhalation	: May cause minor irritation to the respiratory tract and to other mucous membranes.
Symptoms/effects after skin contact	: May cause slight temporary irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: May cause gastric irritation. Overexposure to this material may result in methemoglobinemia. May cause cyanosis.
Other information	: Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12: Ecological information

2.1. Toxicity	
Ecology - general	: This material has not been tested for environmental effects.
Ammonium nitrate (6484-52-2)	
LC50 fish 1	95 – 102 mg/l (Exposure time: 48 h - mg total NH3/L)
EC50 Daphnia 1	124.9 mg/l (mg total NH3/L)
LC50 fish 2	74000 μg/l (Exposure time: 48 h - Species: Carp)
Urea (57-13-6)	
LC50 fish 1	16200 – 18300 mg/l (Exposure time: 96 h - Species: Poecilia reticulata)
EC50 Daphnia 1	3910 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Urea (57-13-6)	
BCF fish 1	< 10
Partition coefficient n-octanol/water (Log Pow)	-1.59 (at 25 °C)

12.4. Mobility in soil

No additional information available

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12.5. Other adverse effects
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Other information
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OFOTION

: Notify authorities if product enters sewers or public waters.

SECTION 13: Disposal considerations	
13.1. Disposal methods	
Product/Packaging disposal recommendations Ecology - waste materials	Dispose in a safe manner in accordance with local/national regulations.Notify authorities if product enters sewers or public waters.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated

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Transportation of Dangerous Goods

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

SECTION 15: Regulatory information

15.1. US Federal regulations

Ammonium nitrate (6484-52-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Urea (57-13-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Water (7732-18-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

Ammonium nitrate (6484-52-2)

Listed on the Canadian DSL (Domestic Substances List)

Urea (57-13-6)

Listed on the Canadian DSL (Domestic Substances List)

Water (7732-18-5)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

Urea (57-13-6)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Water (7732-18-5)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

UAN-32

This material is considered hazardous according to the criteria of the US OSHA Hazard Communication Standard (29 CFR 1910.1200).

Urea (57-13-6)

- Listed on the AICS (Australian Inventory of Chemical Substances)
- Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
- Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
- Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

- Listed on INSQ (Mexican National Inventory of Chemical Substances)
- Listed on the TCSI (Taiwan Chemical Substance Inventory)

Water (7732-18-5)

Listed on the AICS (Australian Inventory of Chemical Substances)

- Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
- Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIOC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

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15.3. US State regulations

No additional information available

SECTION 16: Other information

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Other information

: None.

SDS US (GHS HazCom 2012)

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.