



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

##### 1.1 Product identifier

Trade name	Hydrox U, Hydrox S
Registration number (REACH)	Not relevant (mixture).
CAS number	not relevant (mixture)
UFI-Code	S300-V0PV-300N-G5CY

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

Relevant identified uses	For the production of: Explosives
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##### 1.3 Details of the supplier of the safety data sheet

AUSTIN POWDER GmbH  
 Weissenbach 16  
 8813 St. Lambrecht Austria  
 Telephone: +43(0)3585/2251 e-mail: sdb@austinpowder.at

##### 1.4 Emergency telephone number

###### Emergency information service

AUSTIN POWDER GmbH  
 Weissenbach 16  
 8813 St. Lambrecht Österreich  
 Telefon: +43(0)3585/2251  
 E-Mail: sdb@austinpowder.at  
 As above or nearest toxicological information centre.

#### SECTION 2: Hazards identification

##### 2.1 Classification of the substance or mixture

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

Classification				
Section	Hazard class	Category	Hazard class and category	Hazard statement
2.14	oxidizing solid	2	Ox. Sol. 2	H272
3.3	serious eye damage/eye irritation	2	Eye Irrit. 2	H319

For full text of abbreviations: see SECTION 16



Hydrox S, Hydrox U

Print date: 01.02.2024/2024.01.2024

Version: 1.2

### 2.2 Label elements

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

Signal word Danger

Pictograms GHS03,  
GHS07



#### Hazard statements

H272

May intensify fire; oxidizer.

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.

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+P372+P380+P373

In case of fire: Explosion risk. Evacuate area. DO NOT fight fire when fire reaches explosives.

P401

Store in accordance with local/regional/national/international regulations.

P501

Dispose of contents/container according to local / regional / national / international regulations..

### 2.3 Other hazards

There is no additional information.

#### Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not relevant (mixture).

### 3.2 Mixtures

#### Description of the mixture





Hazardous ingredients					
Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
ammonium nitrate	CAS No 6484-52-2  EC No 229-347-8  REACH Reg. No 01-2119490981- 27-xxxx	60 – 75	Ox. Sol. 3 / H272 Eye Irrit. 2 / H319		



Hydrox S, Hydrox U

Print date: 01.02.2024/01.2024

Version: 1.2

Hazardous ingredients					
Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
sodium nitrate	CAS-Nr. 7631-99-4 EG-Nr. 231-554-3 REACH Reg.-Nr. 01-2119488221-41-xxxx	10 – 20	Ox. Sol. 3 / H272 Eye Irrit. 2 / H319	 	
Distillates (petroleum), hydrotreated light paraffinic	CAS-Nr. 64742-55-8 EG-Nr. 265-158-7 Index-Nr. 649-468-00-3	1 – 4	Asp. Tox. 1 / H304		GHS-HC L(b)
hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics %	EG-Nr. 920-107-4 REACH Reg.-Nr. 01-2119453414-43-xxxx	1 – 4	Asp. Tox. 1 / H304		

**Notes GHS- HC:**

Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/2008/EC, Annex VI)

**Notes**

L(b): The classification as a carcinogen is not required. The substance contains less than 3 % DMSO extract for full text of H-phrases: see SECTION 16

**SECTION 4: First aid measures****4.1 Description of first aid measures****General notes**

Self-protection of the first aider.

Do not leave affected person unattended. Remove victim out of the danger area.

Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

In case of unconsciousness place person in the recovery position. Never give anything by mouth.

**Following inhalation**

Provide fresh air.

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions.

**Following skin contact**

Wash with plenty of soap and water.

Take off immediately all contaminated clothing.

**Following 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.



### Hydrox S, Hydrox U

Print date: 01.02.2024/2024.01.2024

Version: 1.2

#### Following ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting.  
Get medical advice/attention.

#### Notes for the doctor

None.

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

This information is not available.

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

None.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media

in case of fire: danger of explosion, evacuate area. DO NOT fight fire when fire reaches explosives

##### Unsuitable extinguishing media

water jet

#### 5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products: As a result of heating: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).  
Ammonia (NH<sub>3</sub>). Nitrogen oxides (NO<sub>x</sub>).

Mass explosion hazard.

Oxidizing property.

##### Hazardous combustion products

explosion risk in case of fire.

in case of fire: Evacuate area. Fight fire remotely due to the risk of explosion

#### 5.3 Advice for firefighters

Explosion hazard - no fire-fighting. Warn and evacuate the area. At least 300 m away for cover. If product is not directly involved in the fire: Keep containers cool with water spray.

In case of fire and/or explosion do not breathe fumes.

Co-ordinate firefighting measures to the fire surroundings.

Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately.

Fight fire with normal precautions from a reasonable distance. DO NOT fight fire when fire reaches explosives.

##### Special protective equipment for firefighters

chemical protection suit, self-contained breathing apparatus (SCBA)

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

##### For non-emergency personnel

Remove persons to safety.

Ventilate affected area.

Avoid contact with skin and eyes.

Do not breathe dust/fume/gas/mist/vapours/spray.

Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.



### Hydrox S, Hydrox U

Print date: 01.02.2024/2024.01.2024

Version: 1.2

#### For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

#### 6.3 Methods and material for containment and cleaning up

##### Advice on how to contain a spill

Take up mechanically.

##### Advice on how to clean up a spill

Take up mechanically. Collect spillage.

##### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10.

Disposal considerations: see section 13.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Provision of sufficient ventilation.

##### Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation.

Keep away from sources of ignition - No smoking.

##### Specific notes/details

None.

##### Handling of incompatible substances or mixtures Keep away from

organic absorbing material, pulp/paper

##### Measures to protect the environment

Avoid release to the environment.

##### Advice on general occupational hygiene

Do not eat, drink and smoke in work areas. Wash hands after use.

Preventive skin protection (barrier creams/ointments) is recommended.

Remove contaminated clothing and protective equipment before entering eating areas.

#### 7.2 Conditions for safe storage, including any incompatibilities

##### Flammability hazards

Keep valves and fittings free from oil and grease.

##### Incompatible substances or mixtures

Incompatible materials: see section 10. Observe hints for combined storage.

Keep/store away from clothing/combustible materials. Take any precaution to avoid mixing with combustibles.

Keep away from: Alkalis. Metals. Acids. Reducing agents. Organic materials.

##### Protect against external exposure, such as

frost



Hydrox S, Hydrox U

Print date: 01.02.2024.01.2024

Version: 1.2

### Consideration of other advice

Keep away from food, drink and animal feeding stuffs.

### Ventilation requirements

Provision of sufficient ventilation.

### Specific designs for storage rooms or vessels

Store in a well-ventilated place. Keep cool. Keep container tightly closed.

### Packaging compatibilities

Keep only in original container. Unsuitable materials: Copper. Zinc.

### 7.3 Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)						
Country	Name of agent	Identifier	TWA [mg/ m <sup>3</sup> ]	STEL [mg/ m <sup>3</sup> ]	Notation	Source
GB	cycloalkanes (>C7)	WEL	800			EH40/2005
GB	normal and branched chain alkanes (>C7)	WEL	1,200			EH40/2005

#### Notation

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Relevant DNELs of components of the mixture						
Name of substance	CAS No	End- point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
ammonium nitrate	6484-52-2	DNEL	36 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
ammonium nitrate	6484-52-2	DNEL	5.12 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Distillates (petroleum), hydro- treated light paraffinic	64742-55-8	DNEL	2.73 mg/ m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Distillates (petroleum), hydro- treated light paraffinic	64742-55-8	DNEL	5.58 mg/ m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects
Distillates (petroleum), hydro- treated light paraffinic	64742-55-8	DNEL	0.97 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects



Hydrox S, Hydrox U

Print date: 01.02.2024/2024.01.2024

Version: 1.2

Relevant PNECs of components of the mixture				
Name of substance	CAS No	Endpoint	Threshold level	Environmental compartment
ammonium nitrate	6484-52-2	PNEC	18 mg/l	sewage treatment plant (STP)
sodium nitrate	7631-99-4	PNEC	18 mg/l	sewage treatment plant (STP)

## 8.2 Exposure controls

### Appropriate engineering controls

General ventilation.

### Individual protection measures (personal protective equipment)

Wear suitable protective clothing.

### Eye/face protection

Wear eye/face protection.

### Hand protection

Protective gloves		
Material	Material thickness	Breakthrough times of the glove material
NBR: acrylonitrile-butadiene rubber	no information available	no information available

Wear suitable gloves.

Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use.

In the case of wanting to use the gloves again, clean them before taking off and air them well.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

### Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.



Hydrox S, Hydrox U

Print date: 01.02.2024/2024.01.2024

Version: 1.2

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

##### Appearance

Physical state	Solid (acc. to transport classification, see Section 14)
Form	Solid matter Emulsion
Colour	Light yellow to brown
Odour	Mineral-oil-like
Odour threshold	This information is not available

##### Other safety parameters

pH (value)	This information is not available
Melting point/freezing point	This information is not available
Initial boiling point and boiling range	This information is not available
Flash point	Not applicable
Evaporation rate	This information is not available
Flammability (solid, gas)	This material is combustible, but will not ignite readily
Explosion limits of dust clouds	Not determined
Vapour pressure	This information is not available
Density	1.35 – 1.45 g/cm <sup>3</sup>
Vapour density	This information is not available
Relative density	This information is not available
<b>Solubility(ies)</b>	
Water solubility	Not miscible in any proportion
<b>Partition coefficient</b>	
n-octanol/water (log KOW)	This information is not available
Auto-ignition temperature	Not relevant (Solid matter)
Relative self-ignition temperature for solids	This information is not available
Decomposition temperature	>200 °C





Hydrox S, Hydrox U

Print date: 01.02.2024/2024.01.2024

Version: 1.2

### Viscosity

Kinematic viscosity	This information is not available
Dynamic viscosity	40,000 – 100,000 mPa s
Explosive properties	Not explosive
Oxidising properties	Oxidiser

### 9.2 Other information

None

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The mixture contains reactive substance(s).  
Oxidizing property.

### 10.2 Chemical stability

See below "Conditions to avoid".

### 10.3 Possibility of hazardous reactions

Dangerous/dangerous reactions with:  
Organic materials. Reducing agents. Acids. Metal powder. Sulphur.  
Combustible materials: Fuel (diesel oil), Petroleum product, Coal.  
If heated: Danger of bursting container.

### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

### 10.5 Incompatible materials

bases, Combustible materials, acids, reducing agents, chromium compound, Copper compounds, organic materials, chlorates, sulphur, nitrite, permanganates, for example potassium permanganate, metal powder: Cu, Zn

### 10.6 Hazardous decomposition products

Nitrogen oxides (NO<sub>x</sub>), Ammonia (NH<sub>3</sub>)



Hydrox S, Hydrox U

Print date: 01.02.2024.01.2024

Version: 1.2

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Classification procedure**

If not otherwise specified, the classification is based on:  
Ingredients of the mixture (additivity formula).

**Classification according to GHS (1272/2008/EC, CLP)****Acute toxicity**

Test data are not available for the complete mixture.

Acute toxicity of components of the mixture						
Name of substance	EC No	Exposure route	Endpoint	Value	Species	Method
ammonium nitrate	229-347-8	oral	LD50	2,950 mg/kg	rat	OECD Guideline 401
ammonium nitrate	229-347-8	dermal	LD50	>5,000 mg/kg	rat	OECD Guideline 402
sodium nitrate	231-554-3	oral	LD50	3,430 mg/kg	rat	OECD Guideline 401
sodium nitrate	231-554-3	dermal	LD50	>5,000 mg/kg	rat	OECD Guideline 402
Distillates (petroleum), hydro-treated light paraffinic	265-158-7	oral	LD0	>5,000 mg/kg	rat	OECD Guideline 401
Distillates (petroleum), hydro-treated light paraffinic	265-158-7	inhalation: dust/mist	LC0	>5.53 mg/l/4h	rat	OECD Guideline 403
Distillates (petroleum), hydro-treated light paraffinic	265-158-7	dermal	LD0	>2,000 mg/kg	rat	OECD Guideline 402



Hydrox S, Hydrox U

Print date: 01.02.2024 01.2024

Version: 1.2

Acute toxicity of components of the mixture						
Name of substance	EC No	Exposure route	Endpoint	Value	Species	Method
hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics	920-107-4	oral	LD0	>5,000 mg/ kg	rat	OECD Guideline 401
hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics	920-107-4	dermal	LD0	≥3,160 mg/ kg	rabbit	OECD Guideline 402
hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics	920-107-4	inhalation: dust/mist	LD0	>5,600 mg/ m <sup>3</sup> /4h	rat	OECD Guideline 403

### Skin corrosion/irritation

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

### Serious eye damage/eye irritation

Causes serious eye irritation.

### Respiratory or skin sensitization

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

### Respiratory sensitization

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

### Germ cell mutagenicity

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

### Carcinogenicity

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

### Reproductive toxicity

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

### Specific target organ toxicity - single exposure

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

### Specific target organ toxicity - repeated exposure

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.



Hydrox S, Hydrox U

Print date: 01.02.2024.01.2024

Version: 1.2

**SECTION 12: Ecological information****12.1 Toxicity****Aquatic toxicity (acute)**

Test data are not available for the complete mixture.

<b>Aquatic toxicity (acute) of components of the mixture</b>						
<b>Name of substance</b>	<b>EC No</b>	<b>Endpoint</b>	<b>Value</b>	<b>Species</b>	<b>Method</b>	<b>Exposure time</b>
ammonium nitrate	229-347-8	LC50	447 mg/l	carp (cyprinus carpio)		48 h
ammonium nitrate	229-347-8	EC50	490 mg/l	daphnia magna		48 h
sodium nitrate	231-554-3	LC50	>100 mg/l	rainbow trout (Oncorhynchus mykiss)	OECD Guideline 203	96 h
sodium nitrate	231-554-3	EC50	8,609 mg/l	daphnia magna	OECD Guideline 202	24 h
Distillates (petroleum), hydro-treated light paraffinic	265-158-7	LL50	>100 mg/l	fathead minnow (Pimephales promelas)	OECD Guideline 203	96 h
Distillates (petroleum), hydro-treated light paraffinic	265-158-7	LL50	>10,000 mg/l	daphnia magna	OECD Guideline 202	48 h
Distillates (petroleum), hydro-treated light paraffinic	265-158-7	EL50	>10,000 mg/l	daphnia magna	OECD Guideline 202	48 h
hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aro-matics	920-107-4	EL50	>1,000 mg/l	daphnia magna	OECD Guideline 202	48 h



Hydrox S, Hydrox U

Print date: 01.02.2024/2024.01.2024

Version: 1.2

Aquatic toxicity (acute) of components of the mixture						
Name of substance	EC No	Endpoint	Value	Species	Method	Exposure time
hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aro- matics	920-107-4	EL50	>1,000 mg/l	algae	OECD Guideline 201	72 h
hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aro- matics	920-107-4	EL50	>1,000 mg/l	Tetrahymena pyriformis	(Q)Sar	48 h
hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aro- matics	920-107-4	LL50	>1,000 mg/l	rainbow trout (Oncorhynchus mykiss)	OECD Guideline 203	96 h

**Aquatic toxicity (chronic)**

Test data are not available for the complete mixture.

**Aquatic toxicity (chronic) of components of the mixture**

Aquatic toxicity (chronic) of components of the mixture						
Name of substance	CAS No	Endpoint	Value	Species	Source	Exposure time
ammonium nitrate	6484-52-2	ErC50	>1,700 mg/l	algae	ECHA	10 d
sodium nitrate	7631-99-4	EC50	>1,000 mg/l	activated sludge of a predominantly domestic sewage	ECHA	180 min
sodium nitrate	7631-99-4	growth (EbCx) 10%	180 mg/l	activated sludge of a predominantly domestic sewage	ECHA	180 min



Hydrox S, Hydrox U

Print date: 01.02.2024.01.2024

Version: 1.2

Aquatic toxicity (chronic) of components of the mixture						
Name of substance	CAS No	Endpoint	Value	Species	Source	Exposure time
sodium nitrate	7631-99-4	growth (EbCx) 20%	590 mg/l	activated sludge of a predominantly domestic sewage	ECHA	180 min
sodium nitrate	7631-99-4	growth (EbCx) 80%	>1,000 mg/l	activated sludge of a predominantly domestic sewage	ECHA	180 min
Distillates (petroleum), hydro-treated light paraffinic	64742-55-8	NOELR	10 mg/l	daphnia magna	ECHA	21 d

**12.2 Persistence and degradability****Degradability of components of the mixture**

Degradability of components of the mixture						
Name of substance	CAS No	Process	Degradation rate	Time	Method	Source
hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics		oxygen depletion	67.6 %	28 d	OECD Guideline 301 F	ECHA

**Biodegradation**

Test data are not available for the complete mixture.

**Persistence**

No data available.



Hydrox S, Hydrox U

Print date: 01.02.2024/2024.01.2024

Version: 1.2

### 12.3 Bioaccumulative potential

Test data are not available for the complete mixture.

#### Bioaccumulative potential of components of the mixture

Bioaccumulative potential of components of the mixture			
Name of substance	CAS No	BCF	Log KOW
sodium nitrate	7631-99-4		-3.8

### 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

### 12.6 Other adverse effects

Data are not available.

#### Remarks

Wassergefährdungsklasse, WGK (water hazard class): 1

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

This material and its container must be disposed of as hazardous waste.

#### Sewage disposal-relevant information

Do not empty into drains.

#### Waste treatment of containers/packagings

Completely emptied packages can be recycled.

Handle contaminated packages in the same way as the substance itself.

#### Remarks

Please consider the relevant national or regional provisions.

## SECTION 14: Transport information

14.1	UN number	3375
14.2	UN proper shipping name	AMMONIUM NITRATE EMULSION
14.3	Transport hazard class(es)	
	Class	5.1
14.4	Packing group	II
14.5	Environmental hazards	-
14.6	Special precautions for user	-
14.7	Transport in bulk according to Annex II of MARPOL and the IBC Code	-



Hydrox S, Hydrox U

Print date: 01.02.20242.01.2024

Version: 1.2

### 14.8 Information for each of the UN Model Regulations

#### Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN).

UN number	3375
Proper shipping name	UN3375, AMMONIUM NITRATE EMULSION, 5.1, II, (E)
Class	5.1
Classification code	O2
Packing group	II
Danger label(s)	5.1



Special provisions (SP)	309
Excepted quantities (EQ)	E2
Limited quantities (LQ)	0
Transport category (TC)	2
Tunnel restriction code (TRC)	E
Hazard identification No	50
Emergency Action Code	1Y

#### International Maritime Dangerous Goods Code (IMDG)

UN number	3375
Proper shipping name	UN3375, AMMONIUM NITRATE EMULSION, 5.1, II
Class	5.1
Marine pollutant	-
Packing group	II
Danger label(s)	5.1



Special provisions (SP)	309
Excepted quantities (EQ)	E2
Limited quantities (LQ)	0
EmS	F-H, S-Q
Stowage category	D
Segregation group	2 - Ammonium compounds.

#### International Civil Aviation Organization (ICAO-IATA/DGR)

Carriage prohibited.





Hydrox S, Hydrox U

Print date: 01.02.2024.01.2024

Version: 1.2

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Relevant provisions of the European Union (EU)****Restrictions according to REACH, Annex XVII**

<b>Dangerous substances with restrictions (REACH, Annex XVII)</b>			
<b>Name of substance</b>	<b>Name acc. to inventory</b>	<b>CAS No</b>	<b>Restriction</b>
hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3
Distillates (petroleum), hydrotreated light paraffinic	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3
ammonium nitrate	ammonium nitrate (AN)	6484-52-2	R58
ammonium nitrate	inorganic ammonium salts		R65

**Legend**

- R3 1. Shall not be used in:
- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
  - tricks and jokes,
  - games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
2. Articles not complying with paragraph 1 shall not be placed on the market.
3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:
- can be used as fuel in decorative oil lamps for supply to the general public, and,
  - present an aspiration hazard and are labelled with R65 or H304,
4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).
5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:
- (a) lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: 'Keep lamps filled with this liquid out of the reach of children'; and, by 1 December 2010, 'Just a sip of lamp oil - or even sucking the wick of lamps - may lead to life-threatening lung damage';
  - (b) grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter may lead to life threatening lung damage';
  - (c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.
6. No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled R65 or H304, intended for supply to the general public.
7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.

**Hydrox S, Hydrox U**

Print date: 01.02.2024.01.2024

Version: 1.2

### Legend

- R58 1. Shall not be placed on the market for the first time after 27 June 2010 as a substance, or in mixtures that contain more than 28 % by weight of nitrogen in relation to ammonium nitrate, for use as a solid fertiliser, straight or compound, unless the fertiliser complies with the technical provisions for ammonium nitrate fertilisers of high nitrogen content set out in Annex III to Regulation (EC) No 2003/2003 of the European Parliament and of the Council (10).
- R65 1. Shall not be placed on the market, or used, in cellulose insulation mixtures or cellulose insulation articles after 14 July 2018 unless the emission of ammonia from those mixtures or articles results in a concentration of less than 3 ppm by volume (2,12 mg/m<sup>3</sup>) under the test conditions specified in paragraph 4.  
A supplier of a cellulose insulation mixture containing inorganic ammonium salts shall inform the recipient or consumer of the maximum permissible loading rate of the cellulose insulation mixture, expressed in thickness and density.  
A downstream user of a cellulose insulation mixture containing inorganic ammonium salts shall ensure that the maximum permissible loading rate communicated by the supplier is not exceeded.
2. By way of derogation, paragraph 1 shall not apply to placing on the market of cellulose insulation mixtures intended to be used solely for the production of cellulose insulation articles, or to the use of those mixtures in the production of cellulose insulation articles.
3. In the case of a Member State that, on 14 July 2016, has national provisional measures in place that have been authorised by the Commission pursuant to Article 129(2)(a), the provisions of paragraphs 1 and 2 shall apply from that date.
4. Compliance with the emission limit specified in the first subparagraph of paragraph 1 shall be demonstrated in accordance with Technical Specification CEN/TS 16516, adapted as follows:
- (a) the duration of the test shall be at least 14 days instead of 28 days;
  - (b) the ammonia gas emission shall be measured at least once per day throughout the test;
  - (c) the emission limit shall not be reached or exceeded in any measurement taken during the test;
  - (d) the relative humidity shall be 90 % instead of 50 %;
  - (e) an appropriate method to measure the ammonia gas emission shall be used;
  - (f) the loading rate, expressed in thickness and density, shall be recorded during the sampling of the cellulose insulation mixtures or articles to be tested.

### List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

None of the ingredients are listed.

### Seveso Directive

2012/18/EU (Seveso III)				
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements		Notes
01	ammonium nitrate (fertiliser)	5,000	10,000	01)

### Notation

- 1) this applies to ammonium nitrate-based compound/composite fertilisers (compound/composite fertilisers contain ammonium nitrate with phosphate and/or potash) which are capable of self-sustaining decomposition according to the UN Trough Test (see UN Manual of Tests and Criteria, Part III, subsection 38.2), and in which the nitrogen content as a result of ammonium nitrate is
- between 15,75 % and 24,5 % by weight, and either with not more than 0,4 % total combustible/organic materials or which fulfil the requirements of Annex-2 to Regulation (EC) No 2003/2003 of the European Parliament and of the Council of 13 October 2003 relating to fertilisers
  - 15,75 % by weight or less and unrestricted combustible materials



Hydrox S, Hydrox U

Print date: 01.02.2024/01.2024

Version: 1.2

### Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II

None of the ingredients are listed.

### Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

None of the ingredients are listed.

### Water Framework Directive (WFD)

Not all ingredients are listed.

List of pollutants (WFD)				
Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
sodium nitrate	Substances which contribute to eutrophication (in particular, nitrates and phosphates)		A)	
sodium nitrate	Substances and preparations, or the breakdown products of such, which have been proved to possess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine-related functions in or via the aquatic environment		A)	
sodium nitrate	Metals and their compounds		A)	

#### Legend

A) Indicative list of the main pollutants

### Regulation 98/2013/EU on the marketing and use of explosives precursors

Not all ingredients are listed.

Explosives precursors which are subject to restrictions					
Name of substance	CAS No	Type of registration	Remarks	Limit value	Upper limit value for the purpose of licensing under Article 5(3)
sodium nitrate	7631-99-4	Annex II			
ammonium nitrate	6484-52-2	Annex I	>16 %	16 % w/w of nitrogen in relation to ammonium nitrate	No licensing permitted

#### Legend

>16 % In concentration of 16 % by weight of nitrogen in relation to ammonium nitrate or higher

annex I Substances which shall not be made available to members of the general public on their own, or in mixtures or substances including them, except if the concentration is equal to or lower than the limit values set out be- low

annex II Substances on their own or in mixtures or in substances for which suspicious transactions shall be reported

### Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS)

None of the ingredients are listed.

**Hydrox S, Hydrox U**

Print date: 01.02.2024.01.2024

**Version: 1.2****Regulation 649/2012/EU concerning the export and import of hazardous chemicals (PIC)**

None of the ingredients are listed.

**15.2 Chemical Safety Assessment**

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

**SECTION 16: Other information****Abbreviations and acronyms**

<b>Abbreviations and acronyms</b>	
<b>Abbr.</b>	<b>Descriptions of used abbreviations</b>
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
Asp. Tox.	Aspiration hazard
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
Carc.	Carcinogenicity
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EH40/2005	EH40/2005 Workplace exposure limits ( <a href="http://www.nationalarchives.gov.uk/doc/open-government-licence/">http://www.nationalarchives.gov.uk/doc/open-government-licence/</a> )
EINECS	European Inventory of Existing Commercial Chemical Substances
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms
ELINCS	European List of Notified Chemical Substances



Hydrox S, Hydrox U

Print date: 01.02.2024/2024.01.2024

Version: 1.2

Abbr.	Descriptions of used abbreviations
EmS	Emergency Schedule
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LL50	Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality
LOEL	Lowest Observed Effect Level
log KOW	n-Octanol/water
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NLP	No-Longer Polymer
NOELR	No Observed Effect Loading Rate
Ox. Sol.	Oxidising solid
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Repr.	Reproductive toxicity
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
STEL	Short-term exposure limit

**Hydrox S, Hydrox U**

Print date: 01.02.2024/2024.01.2024

**Version: 1.2**

Abbr.	Descriptions of used abbreviations
SVHC	Substance of Very High Concern
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

**Key literature references and sources for data**

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.  
Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG).

Dangerous Goods Regulations (DGR) for the air transport (IATA).

**Classification procedure**

Physical and chemical properties.

Health hazards.

Environmental hazards.

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

**List of relevant phrases (code and full text as stated in chapter 2 and 3)**

Code	Text
H272	May intensify fire; oxidiser.
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.

**Responsible for the safety data sheet**

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**Disclaimer**

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.