### **SAFETY DATA SHEET**

# Urea NP 38-8 / Urea NPK 28-13-10

The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued 28.02.2020

#### 1.1. Product identifier

Product name Urea NP 38-8 / Urea NPK 28-13-10

Information on the packaging Size of packaging: 500 kg

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

Main intended use PC-FER-3 Soil improvers

Secondary uses PC-FER-1 Fertilisers

Industrial use Yes

Professional use Yes

Consumer use No

### 1.3. Details of the supplier of the safety data sheet

Company name Belor Agro Oy Postal address Salorankatu 5-7 Postcode 24240 City Salo Country Finland Telephone number +358 500 933 158 Email info@beloragro.fi Website http://www.beloragro.fi Enterprise No. FI2132672-0

### 1.4. Emergency telephone number

Emergency telephone

Telephone number: +358 800 147 111 or +358 9 471 977

Open 24 hours a day.

Description: Poison Information Centre (in Finland), P.O. Box 790

(Tukholmankatu 17), 00029 HUS

	Telephone number: 112 Description: Emergency telephone number (in Finland)
Identification, comments	Please contact the Emergency Centre in your own country, e.g. 112 in European Union countries.

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

CLP classification, notes	In accordance with CLP/GHS regulation (EC) No 1272/2008, the product has not	
	been classified as hazardous.	

#### 2.2. Label elements

Other label information (CLP)	No labeling. In accordance with current regulations, this product has not been	
	classified as hazardous.	

### 2.3. Other hazards

PBT / vPvB	For results of PBT and vPvB assessment, see point 12.5.
Health effect	Dust in high concentrations may irritate eyes, respiratory system and skin.

# SECTION 3: Composition / information on ingredients

### 3.2. Mixtures

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Substance	Identification	Classification	Contents	Notes
Urea	CAS No.: 57-13-6	CLP classification, notes:	70 - 80 %	
	EC No.: 200-315-5	Not classified.		
Ammonium sulphate	CAS No.: 7783-20-2	CLP classification, notes:	5 - 30 %	
	EC No.: 231-984-1	Not classified.		
Monoammonium	CAS No.: 7722-76-1	CLP classification, notes:	10 - 20 %	
phosphate	EC No.: 231-764-5	Not classified.		
Potassium chloride	CAS No.: 7447-40-7	CLP classification, notes:	10 - 20 %	
	EC No.: 231-211-8	Not classified.		
Sodium chloride	CAS No.: 7647-14-5	CLP classification, notes:	< 1 %	
	EC No.: 231-598-3	Not classified.		
Propylene glycol	CAS No.: 57-55-6	CLP classification, notes:	< 0,5 %	2
	EC No.: 200-338-0	Not classified.		
	REACH Reg. No.:			
	~			
	01-2119456809-23-XXXX			

<sup>&</sup>lt;sup>2</sup>Substance with a workplace exposure limit

	The exact composition varies depending on the product.  Urea NP 38-8 does not contain the following ingredients: - potassium chloride - sodium chloride.
Substance comments	The full text for all hazard statements are displayed in point 16.

# **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

Inhalation	If inhaled, move exposed person to fresh air and keep at rest. Get medical attention if symptoms persist or are severe.
Skin contact	Remove contaminated clothing. Wash contaminated skin thoroughly with water and soap.  Get medical attention if skin irritation persists. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 10 minutes, holding eyelids open. Remove contact lenses, if present and easy to do, and continue rinsing. Get medical attention if eye irritation occurs.
Ingestion	Rinse mouth with water and then drink plenty of water. Do NOT induce vomiting. Get medical advice/attention.

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

Acute symptoms and effects	Dust may irritate the eyes and the respiratory tract.	
	Ingestion may cause nausea, vomiting and diarrhea.	
Delayed symptoms and effects	None known.	

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

Other information	Treat symptomatically.
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# **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

Suitable extinguishing media	Use an extinguishing agent suitable for the surrounding fire.

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

Fire and explosion hazards	The product may form combustible dust concentrations in the air during handling.
Hazardous combustion products	During fire, toxic gases and vapours may be evolved. Carbon dioxide (CO2). Carbon monoxide (CO). Ammonia. Phosphorus oxides (POx). Sulphur oxides (SOx).

### 5.3. Advice for firefighters

Personal protective equipment	Wear appropriate protective equipment and self-contained breathing apparatus.
Other information	Avoid inhalation of fire fumes.
	Take care of fire waste and contaminated extinguishing water in accordance with
	local regulations.

### **SECTION 6: Accidental release measures**

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

General measures	Ensure adequate ventilation. Remove all sources of ignition. Avoid generation and spreading of dust.
Personal protection measures	Avoid breathing dust. Avoid contact with skin and eyes. Wear appropriate

personal protective equipment.

### 6.2. Environmental precautions

Environmental precautionary measures

Avoid release into drains, sewers or waterways. Keep animals away from large

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

Clean up

Collect product with a vacuum cleaner or by brushing. Collect in tightly sealed containers for disposal.

#### 6.4. Reference to other sections

Additional information

Safe handling: see point 7.

Personal protective equipment: see point 8.

Waste disposal: see point 13.

### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Handling

Ensure adequate ventilation. Avoid breathing dust. Avoid contact with eyes. Avoid repeated or prolonged contact with skin or clothing. Use appropriate personal protective equipment while handling the product (see point 8).

### Protective safety measures

Safety measures to prevent fire

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge.

Preventitive measures to prevent aerosol and dust generation

Prevent formation of dust. Any deposit of dust which cannot be avoided must be regularly removed.

Advice on general occupational hygiene

Handle in accordance with good industrial hygiene and safety practices. Do not eat, drink or smoke when using this product. Wash hands and exposed skin

areas before breaks and after handling the product. Wash contaminated clothes before reuse.

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

Conditions to avoid

Store away from food, drink and animal feedstuffs. For incompatible materials see point 10.5.

#### Conditions for safe storage

Technical measures and storage conditions

Store in a cool, dry, well-ventilated area. Protect from humidity and water.

Packaging compatibilities

Store in tightly closed container.

### 7.3. Specific end use(s)

Specific use(s)

The use stated in section 1.2.

# SECTION 8: Exposure controls / personal protection

# 8.1. Control parameters

Substance	Identification	Exposure limits	TWA Year
Dusts, respirable dust		Limit value (8 h): 4 mg/m³	
Dusts, total inhalable dust		Limit value (8 h): 10 mg/m³	
Propylene glycol	CAS No.: 57-55-6	Country of origin: United Kingdom Limit value (8 h): 150 ppm Limit value (8 h): 474 mg/ m³ Comments: total vapour and particulates Limit value (8 h): 10 mg/m³ Comments: particulates	
Control parameters comments	Compliance with the a controlled on a regular	ccepted occupational exposure	e limits values should be

### **DNEL / PNEC**

Substance	Urea
DNEL	Group: Professional Value: 292 mg/m³ Comments: Acute / Long-term inhalation (systemic)
	Group: Professional Value: 580 mg/kg bw/day Comments: Acute / Long-term dermal (systemic)
	Group: Consumer Value: 125 mg/m³ Comments: Acute / Long-term inhalation (systemic)
	Group: Consumer Value: 580 mg/kg bw/day Comments: Acute / Long-term dermal (systemic)
	Group: Consumer Value: 42 mg/kg bw/day Comments: Acute / Long-term oral (systemic)
PNEC	Route of exposure: Freshwater Value: 0,047 mg/l
	Route of exposure: Saltwater Value: 0,047 mg/l
Substance	Potassium chloride
DNEL	Group: Professional Route of exposure: Long-term dermal (systemic) Value: 303 mg/kg bw/day
	Group: Professional
	Route of exposure: Long-term inhalation (systemic)

Value: 1064 mg/m<sup>3</sup>

**Group:** Professional

Route of exposure: Acute dermal (systemic)

Value: 910 mg/kg bw/day

**Group:** Professional

Route of exposure: Acute inhalation (systemic)

Value: 5320 mg/kg bw/day

Group: Consumer

Route of exposure: Long-term dermal (systemic)

Value: 182 mg/kg bw/day

Group: Consumer

Route of exposure: Long-term inhalation (systemic)

Value: 273 mg/m<sup>3</sup>

Group: Consumer

Route of exposure: Long-term oral (systemic)

Value: 91 mg/kg bw/day

Group: Consumer

Route of exposure: Acute inhalation (systemic)

Value: 1365 mg/m<sup>3</sup>

Group: Consumer

Route of exposure: Acute dermal (systemic)

Value: 910 mg/kg bw/day

Group: Consumer

Route of exposure: Acute oral (systemic)

Value: 455 mg/kg bw/day

PNEC Route of exposure: Freshwater

Value: 0,1 mg/l

Route of exposure: Saltwater

Value: 0,1 mg/l

Route of exposure: Sewage treatment plant STP

Value: 10 mg/l

### 8.2. Exposure controls

### Safety signs









### Precautionary measures to prevent exposure

Technical measures to prevent exposure

Ensure adequate ventilation.

### Eye / face protection

Suitable eye protection Use tight-fitting safety goggles (EN 166).

### Hand protection

Suitable gloves type Wear appropriate chemical resistant safety gloves (EN 374).

Suitable materials Nitrile. Butyl rubber. Neoprene. PVC.

Contact glove manufacturer for specific advice on glove selection.

#### Skin protection

Suitable protective clothing Wear appropriate protective clothing.

### Respiratory protection

Respiratory protection necessary 
If it is not possible to reduce exposure levels to below exposure limit values by

ventilation or if dust forms, use appropriate respirator.

Recommended type of equipment Dust mask/respirator. Particle filter (type P2/P3).

Consult with respirator manufacturer to determine respirator selection, use, and

limitations.

### **SECTION 9: Physical and chemical properties**

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

Form Solid: granular

Odour Unknown.

Odour limit Comments: Unknown.

pH Comments: Unknown.

Melting point / melting range Value: 133,3 °C

Comments: Urea, at atmospheric pressure.

Value: 190 °C

Comments: Monoammonium phosphate

Boiling point / boiling range Comments: Urea decomposes before the boiling point is reached.

Flash point Comments: Not applicable.

Evaporation rate Comments: Not applicable.

Flammability (solid, gas) Not flammable.

Explosion limit Comments: Unknown.

Vapour pressure Value: 0,002 Pa

Comments: Urea Temperature: 25 °C

Vapour density Comments: Not applicable.

Density Value: 1,33 g/cm³

Comments: Urea Temperature: 20 °C Solubility Medium: Water
Value: 624 000 mg/l
Comments: Urea

Temperature: 20 °C

Medium: Water Value: 1038 g/l

Comments: Ammonium sulphate

Temperature: 20 °C

Medium: Water Value: 100 g/l

Comments: Monoammonium phosphate

Temperature: 20 °C

Partition coefficient: n-octanol/

water

Viscosity

Value: -1.73 Comments: Urea Temperature: 20 °C

Comments: Not applicable.

Spontaneous combustability Comments: Unknown.

Decomposition temperature Comments: Unknown.

Explosive properties Not classified as explosive.

Oxidising properties Not classified as oxidising.

#### 9.2. Other information

## **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

Reactivity Not reactive under normal use and storage conditions.

### 10.2. Chemical stability

Stability Chemically stable under normal storage conditions.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions 
No dangerous reactions under normal use and storage conditions.

#### 10.4. Conditions to avoid

Conditions to avoid Protect from moisture and heat. Keep away from sources of ignition.

#### 10.5. Incompatible materials

Materials to avoid Acids. Bases. Oxidising agents. Copper. Copper alloys. Combustible substances.

### 10.6. Hazardous decomposition products

Hazardous decomposition
Under normal conditions of storage and use, hazardous decomposition products
should not be produced. Contact with strong bases liberates ammonia.

Harmful compounds may be evolved during fire. Carbon monoxide (CO). Carbon dioxide (CO2). Nitrogen oxides (NOx). Sulphur oxides (SOx). Phosphorus oxides (POx).

# **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Substance	Urea
Acute toxicity	Type of toxicity: Acute Effect tested: LD50 Route of exposure: Oral Value: 14300 mg/kg Animal test species: Rat
Substance	Ammonium sulphate
Acute toxicity	Effect tested: LD50 Route of exposure: Oral Value: 3000 mg/kg Animal test species: Rat
Substance	Potassium chloride
Acute toxicity	Effect tested: LD50 Route of exposure: Oral Value: 3020 mg/kg Animal test species: Rat
Other toxicological data	There is no toxicological data available about the product as such. The product is not classified as acutely toxic.

### Other information regarding health hazards

Assessment of skin corrosion / irritation, classification	The product is not classified as irritant or corrosive to skin.
Assessment of eye damage or irritation, classification	The product is not classified as damaging or irritating to eyes.
Sensitisation	The product is not classified as a respiratory or skin sensitiser.
Mutagenicity	The product is not classified as a mutagen.
Assessment of carcinogenicity, classification	The product is not classified as a carcinogen.
Reproductive toxicity	The product is not classified as toxic to reproduction.
Assessment of specific target organ toxicity - single exposure, classification	The product is not classified as toxic to specific target organs at a single exposure.
Assessment of specific target organ toxicity - repeated exposure, classification	The product is not classified as toxic to specific target organs at repeated exposure.
Assessment of aspiration hazard, classification	The product is not classified as an aspiration hazard.

### Symptoms of exposure

In case of ingestion May cause irritation of the gastrointestinal tract.

In case of inhalation Dust in high concentrations may cause irritation.

Other information None reported.

# **SECTION 12: Ecological information**

### 12.1. Toxicity

Substance	Ammonium sulphate
Aquatic toxicity, fish	Toxicity type: Acute Value: 126 mg/kg Effect dose concentration: LC50 Test duration: 96 hour(s) Species: Poecilia reticulata
Substance	Potassium chloride
Aquatic toxicity, fish	Toxicity type: Acute Value: 880 mg/l Effect dose concentration: LC50 Test duration: 96 hour(s) Species: Pimephales promelas
Substance	Potassium chloride
Aquatic toxicity, algae	Toxicity type: Acute Value: > 100 mg/l Effect dose concentration: IC50 Test duration: 72 hour(s) Species: Desmodesmus subspicatus
Substance	Ammonium sulphate
Aquatic toxicity, crustacean	Toxicity type: Acute Value: 292 mg/kg Effect dose concentration: LC50 Test duration: 48 hour(s) Species: Daphnia magna
Substance	Potassium chloride
Aquatic toxicity, crustacean	Toxicity type: Acute Value: 440 - 880 mg/l Effect dose concentration: EC50 Test duration: 48 hour(s) Species: Daphnia magna
Ecotoxicity	There is no ecotoxicological data available about the product as such. The product is not classified as hazardous to the environment. Avoid uncontrolled release to the environment.

### 12.2. Persistence and degradability

Substance	Urea
Biodegradability	Value: 96 % Comments: Readily biodegradable.

Test period: 16 day(s)

### 12.3. Bioaccumulative potential

Bioaccumulation, evaluation Unlikely to bioaccumulate.

### 12.4. Mobility in soil

Adsorption coefficient Value: 0,037 - 0,064

Comments: Urea

#### 12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment

Chemical safety assessment has not been performed for the product, no information available about ingredients.

### 12.6. Other adverse effects

Additional ecological information

None reported.

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Appropriate methods of disposal for the contaminated packaging

After usage, empty the packing completely.

Other information

Dispose of in compliance with local and national regulations.

## **SECTION 14: Transport information**

#### 14.1. UN number

Comments The product is not classified for transportation.

### 14.2. UN proper shipping name

### 14.3. Transport hazard class(es)

### 14.4. Packing group

### 14.5. Environmental hazards

IMDG Marine pollutant No.

#### 14.6. Special precautions for user

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

Transport in bulk (yes/no)

No

# **SECTION 15: Regulatory information**

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

Legislation and regulations

Regulation (EU) 2019/1009 laying down rules on the making available on the market of EU fertilising products and amending Regulations (EC) No 1069/2009 and (EC) No 1107/2009 and repealing Regulation (EC) No 2003/2003.

### 15.2. Chemical safety assessment

Chemical safety assessment performed

No

### **SECTION 16: Other information**

Read safety data sheet.
Product specifications by manufacturer SDSs for product components Urea (CAS number: 57-13-6): REACH registration information (disseminated by ECHA) EH40/2005 Workplace exposure limits (3rd ed, 2018)
DNEL: Derived No-Effect Level EC50: Effective concentration: concentration which kills or immobilises 50 % of exposed organisms IC50: Inhibitory concentration: concentration which reduces a biological function by 50 % LC50: Lethal concentration 50 % (median lethal concentration): concentration which kills 50 % of exposed organisms LD50: Lethal dose 50 % (median lethal dose): dose which kills 50 % of exposed organisms NOEC: No Observed Effect Concentration: concentration at which no effects are observed PNEC: Predicted No-Effect Concentration TWA: Time-weighted average
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