

Safety Data Sheet

In accordance with Commission Regulation (EU) No 2020/878





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Revision: 1

TECNIFOL BRIX - TECNIFOL ANTI-OX BRIX

SECTION 1		Identification of the substance/mixture and of the company/undertaking
1.1	Product identifier	
	Trade name	TECNIFOL BRIX TECNIFOL ANTI-OX BRIX
	Code	DS-098
	Chemical name	-
	Chemical formula	-
	Index Number	Not applicable
	EINECS Number	Not applicable
	CAS Number	Not applicable.
	Registration Number	It is a mixture and therefore has no registration number.
	UFI	TKT0-50G2-100F-YSJ3
1.2	Relevant identified uses of the substance or mixture and uses advised against	
	Application of the substance / the mixture	Fertilisers
	Uses advised against	Others than those indicated.
1.3	Details of the supplier of the safety data sheet	ADP Fertilizantes, S.A. Avenida Termo de Lisboa, 24-30, Salgados da Póvoa Apartado 88 2616-907 ALVERCA DO RIBATEJO PORTUGAL (00351) 210 300 400 e-mail: fdsinfo@fertiberia.es
1.4	Emergency telephone number	SOPAC - Sociedade Produtora de Adubos Compostos S.A.- +351 265030496 (Only available during office hours; Monday-Friday; 09:00-18:00)
SECTION 2		Hazards identification
2.1	Classification of the substance or mixture	GHS05 Skin Corr. 1 H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage. GHS07 STOT SE 3 H335 May cause respiratory irritation.
2.2	Label elements	
	Hazard pictograms	 
	Signal word	Danger

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	Hazard-determining components of labelling	potassium carbonate
	Hazard statements	H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation.
	Precautionary statements	P102 Keep out of reach of children. P270 Do not eat, drink or smoke when using this product. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/doctor. P321 Specific treatment (see on this label). P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
	Additional information	Not applicable.
	Supplemental information on the label	Not applicable.
	Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Not applicable.
	Special packaging requirements	Not applicable.
	Containers to be fitted with child-resistant fastenings	Not applicable.
	Tactile hazard warning	Not applicable.
2.3	Other hazards	
	Other hazards which do not result in classification	None known.
	Results of the PBT and vPvB assessment	Not applicable. Not applicable.
	Determination of endocrine disrupting properties	None substance listed.

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SECTION 3 Composition/information on ingredients							
3.1		Substances					
		Not applicable.					
3.2		Mixtures					
Name	Index number	CE number	CAS number	Registration number	%(P/P)	Classification Regulation CE N° 1272/2008	
Potassium carbonate	-	209-529-3	584-08-7	01-2119532646-36-XXXX	50,00%	Skin Irrit. 2 H315; Eye Irrit. 2 H319; STOT SE 3 H335	
Urea	-	200-315-5	57-13-6	01-2119463277-33-XXXX	<10%	Not classified	
Borax anhydrous	005-011-00-4	215-540-4	1330-43-4	01-2119490790-32-XXXX	< 0,1%	Repr. 1B H360FD; Repr. 1B H360	
<p>(1) These products also contain complexing agents based on organic extracts, in a concentration of less than 1%, intended to favor the foliar assimilation of nutrients and their internal mobility. Other substances may be added in quantities that do not affect the classification of the product, such as metal sulfates in concentrations less than 0.25%.</p>							
Additional indications		For the wording of the listed hazard phrases refer to section 16.					
SECTION 4 First aid measures							
4.1		Description of first aid measures					
General information		Provide medical assistance to those affected. People who dispense first aid are advised to wear personal protective equipment. There may be delayed effects on exposure.					
Inhalation		Move patient to fresh air and keep at rest in a position comfortable for breathing. Monitor for respiratory distress. If coughing or difficulty breathing, assess for airway irritation, bronchitis or pneumonitis. If able, administer supplemental oxygen with assisted ventilation as needed. Administer artificial respiration if the patient is not breathing.					
Ingestion		Call a doctor. If conscious, rinse mouth and immediately give patient milk or water to drink. Do not induce vomiting.					
Skin contact		Immediately remove all contaminated clothing and wash the exposed area with plenty of warm water for at least 15 minutes, followed by thorough washing with soap and water. The patient should be seen in a health care facility. NEVER use solvents or thinners. It is recommended that first aid providers wear personal protective equipment (see section 8).					

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	Eye contact	Immediately remove contact lenses and flush eyes with plenty of lukewarm water for at least 15 minutes. If irritation, pain, swelling, excessive tearing or sensitivity to light persists, the patient should be seen at a health centre and referral to an ophthalmologist should be considered.
4.2	Most important symptoms and effects, both acute and delayed	
	Eye contact	Redness. Pain. Severe deep burns.
	Inhalation	Burning sensation. Coughing. labored breathing Difficulty in breathing. sore throat Symptoms may be delayed. Symptoms of pulmonary oedema often do not become apparent for several hours and are aggravated by physical exertion. Therefore, rest and medical observation are essential.
	Skin contact	Redness, burn, pain, blistering.
	Ingestion	Cough, gastric pain, bloody vomiting, nausea.
4.3	Indication of any immediate medical attention and special treatment needed	
	No action involving personal risk or without adequate training should be taken. Avoid direct mouth-to-mouth resuscitation, as it can be dangerous for the person providing the help. Use other methods for resuscitation, preferably oxygen or compressed air equipment. Treat according to the following indications:	
	Notes to physician	Treat symptomatically.
	Specific treatments	There is no specific treatment. It depends on specialized medical observation.
SECTION 5		
	Firefighting measures	
5.1	Extinguishing media	
	The product is not flammable.	
	Suitable extinguishing agents	Small fire: Dry chemical or CO2 Large fire: Water spray, fog or foam
	Unsuitable extinguishing agents for safety reasons	High volume water jet.
5.2	Special hazards arising from the substance or mixture	
	The solution is not flammable. Ammonia may be released from solution but in free air the ammonia-air mixture is unlikely to be within flammable limits. In confined spaces the flammable limits may be reached. A closed container containing ammonia solution may explode if exposed to fire or heated.	
	Hazardous thermal decomposition products	Nitrogen oxides, nitrous gases, CO2.

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5.3	Advice for firefighters
	<p>Open warehouse doors and windows for maximum ventilation.</p> <p>Fire-fighting personnel should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face mask operating in positive pressure mode. Clothing for fire-fighting personnel (including helmets, protective boots) should conform to European standard EN 469 and gloves to EN 659. It should provide a basic level of protection for chemical incidents and should be fire resistant. The facility shall have sufficient protective equipment available to deal with fires.</p>
SECTION 6	Accidental release measures
6.1	Personal precautions, protective equipment and emergency procedures
	<p>To avoid projections of corrosive liquid by overflow, both from tanks or reservoirs and from cisterns in loading and unloading operations, the following spill prevention measures shall be adopted:</p> <p>(a) In tanks and reservoirs. The protection system in tanks and reservoirs shall depend on the type of installation so as to ensure that there is no overfilling of the receptacles by means of two independent safety features, e.g. level indicators and independent high level alarm. The shut-off valve may be either automatically or manually operated.</p> <p>Constant observation of the tank level by an operator connected by radiotelephone or other effective means of communication with the operator of the shut-off valve is permitted.</p> <p>(b) In tanks. A telescopic diving tube shall be used to the bottom of the tank or filled from the bottom of the tank and the provisions laid down in the regulations on loading/unloading of dangerous goods shall be taken into account.</p> <p>(c) In hoses. Dripping from the ends of hoses shall be prevented. If dripping does occur, it shall be adequately collected.</p>
	For non-emergency personnel
	<p>Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing. In case of non-flammable spills and leaks, wear vapor protective clothing. Stop leak if you can do so without risk. Keep unnecessary persons away, isolate the danger area and prevent entry. Eliminate sources of combustion.</p> <p>Keep upwind, out of low areas and ventilate confined spaces before entering. Assess the affected area to determine if evacuation is necessary. If it is necessary to evacuate the danger zone, you should follow the advice of an expert. If sheltering in place, tape windows and doors, close outside air intakes (attic fans, etc.) and place a damp towel or cloth over your face (if necessary).</p>
	For emergency responders
	<p>With proper training, self-contained breathing apparatus (SCBA) and protective clothing for structural firefighters used in conjunction with water spray will provide limited protection in outdoor emissions for short-term exposure.</p>
6.2	Environmental precautions
	<p>In case of accidental spills and leaks avoid dispersal of spilled material, runoff and contact with soil, watercourses (surface and groundwater), drains and sewers. Inform the competent authorities if the product has caused adverse impacts (sewers, watercourses, soil or air).</p>
6.3	Methods and material for containment and cleaning up
	<p>In case of accidental spills and leaks, avoid dispersal of spilled material. Use water spray or foam to control vapors. Make a protective barrier and ensure closure of drains with suitable containment material. Absorb with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep and shovel into suitable containers for disposal.</p>

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6.4	Reference to other sections	
	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.	
SECTION 7	Handling and storage	
7.1	Precautions for safe handling	
	Technical precautionary measures	Wear appropriate personal protective equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering food areas. Avoid contact with eyes, skin or clothing. Do not breathe vapours or mist. Do not ingest. Avoid release to the environment. Keep in original container or approved alternative made of compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residues and may be hazardous. Do not reuse container.
	Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
7.2	Conditions for safe storage, including any incompatibilities	
	Avoid contact and packaging with incompatible substances or mixtures. See section 10; Avoid proximity to potential sources of ignition (including electrical equipment); Store in a place that avoids adverse weather conditions (high temperatures); Avoid direct sunlight; Ensure good ventilation of the storage area. Ensure that the quantities that can be stored are not exceeded. See section 15.	
7.3	Specific end use(s)	
	Use only as described in section 1.2.	
SECTION 8	Exposure controls/personal protection	
8.1	Control parameters	
	Occupational exposure limits	There is no limit of occupational exposure value for the mixture.
	Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of ventilation or other control measures and/or the need to use respiratory protective equipment. Monitoring standards such as the following may be used as reference: European Standard EN 689 (Atmospheres in the workplace. Guidelines for the evaluation of inhalation exposure of chemical agents for comparison with limit values and measurement strategy), European Standard EN 14042 (atmospheres in the workplace. Guidelines for the application and use of procedures to assess exposure to chemical and biological agents) European Standard EN 482 (atmospheres in the workplace. General requirements for the performance of procedures for measuring chemical agents). National guidance documents on methods for the determination of hazardous substances should also be used as a reference.

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Derived effect levels		No DELs available.				
Predicted effect concentrations		No PECs available.				
Ingredients with limit values that require monitoring at the		The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.				
DNEL						
Substance				584-08-7	57-13-6	
				Potassium carbonate	Urea	
Industrial/Professional worker	Inhalation (mg/m3)	Long-term	Systemic	No hazard has been identified	292 mg/m3	
			Local	No hazard has been identified	292 mg/m3	
		Short-term	Systemic	10 mg/m3	No hazard has been identified	
			Local	10 mg/m3	No hazard has been identified	
	Dermal (mg/kg pc/día)	Long-term	Systemic	No hazard has been identified	580 mg/kg bw/d	
			Local	No hazard has been identified	580 mg/kg bw/d	
		Short-term	Systemic	Medium risk (no threshold was derived)	No hazard has been identified	
			Local	Medium risk (no threshold was derived)	No hazard has been identified	
	Ocular (mg/kg pc/día)	Long-term	Systemic	Not available	Not available	
			Local	Not available	Not available	
		Short-term	Systemic	Medium risk (no threshold was derived)	No hazard has been identified	
			Local	Medium risk (no threshold was derived)	No hazard has been identified	
			Long-term	Systemic	No hazard has been identified	125 mg/m3
				Local	No hazard has been identified	125 mg/m3

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Consumer	Inhalation (mg/m³)	Short-term	Systemic	Medium risk (no threshold was derived)	Hazards are unknown but no further information is needed as no exposure to the substance is expected to occur	
			Local	Medium risk (no threshold was derived)	Hazards are unknown but no further information is needed as no exposure to the substance is expected to occur	
	Dermal (mg/kg pc/day)	Long-term	Systemic	No hazard has been identified	580 mg/kg bw/d	
			Local	No hazard has been identified	580 mg/kg bw/d	
		Short-term	Systemic	Medium risk (no threshold was derived)	No hazard has been identified	
			Local	Medium risk (no threshold was derived)	No hazard has been identified	
	Oral (mg/kg pc/day)	Long-term	Systemic	No hazard has been identified	42 mg/kg bw/d	
			Local	No hazard has been identified	42 mg/kg bw/d	
		Short-term	Systemic	Not available	No hazard has been identified	
			Local	Not available	No hazard has been identified	
	Ocular (mg/kg pc/day)	Long-term	Systemic	Not available	Not available	
			Local	Not available	Not available	
		Short-term	Systemic	Medium risk (no threshold was derived)	No hazard has been identified	
			Local	Medium risk (no threshold was derived)	No hazard has been identified	
	PNEC					
	Substance				584-08-7	57-13-6
					Potassium carbonate	Urea
	Fresh water (mg/L)				No hazard has been identified	0,47
	Salt water (mg/L)				No hazard has been identified	0,047
	STP (mg/L)				No hazard has been identified	No hazard has been identified

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	Fresh water sediment (mg/L)	No hazard has been identified	Sediments are not expected to be
	Salt water sediment (mg/L)	No hazard has been identified	Sediments are not expected to be
	Air (mg/L)	No hazard has been identified	No hazard has been identified
	Soil (mg/L)	No hazard has been identified	Soil is not expected to be exposed to the
	Predators (secondary poisoning) (mg/L)	The substance has no bioaccumulation	The substance has no bioaccumulation
	Components with biological limit values	Non-existent.	
	Additional indications	The Occupational exposure limits lists valid during the making were used as basis.	
8.2	Exposure controls		
	Appropriate engineering controls	<p>As a general rule, access shall be prohibited to unauthorised personnel. The prohibition shall be posted on a clearly visible and legible sign.</p> <p>Ventilation. Storerooms and loading and unloading or transfer facilities shall be designed with natural or forced ventilation so that the risk of exposure of workers is adequately controlled. For this purpose, the design shall take special account of the characteristics of the vapours to which they may be exposed and of the source of the emissions, their collection at source and their possible transmission to the environment of the storage or installation.</p> <p>Where they are located inside buildings, ventilation shall be channelled to a safe place outside through dedicated ducts, taking into account the permissible emission levels to the atmosphere. Where forced ventilation is used, it shall be provided with an alarm system in case of failure.</p> <p>Premises with pits or basements where vapours may accumulate shall have adequate forced ventilation in such pits or basements to prevent the accumulation of vapours.</p>	
	Personal protective measures, such as personal protective equipment	General protection and hygiene measures	<p>Wash completely the hands, forearms and face after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.</p> <p>Use the appropriate techniques to remove the contaminated clothes. Wash the contaminated clothes before reusing. Verify that the eyes washing stations and safety showers were near to working stations.</p>
		Respiratory protection	If exposure levels exceed or may exceed the recommended exposure limits, use suitable breathing apparatus e.g. mouth-face masks equipped with type K filters, self-contained breathing apparatus according to EN 136, 140 or 405.
		Hand protection	Chemical protective gloves According to standards: EN 374-1:2003 - EN 374-3:2003/AC:2006 - EN 420:2003+A1:2009. Replace gloves at any sign of deterioration.
		Glove material	PVC gloves
		Other	Use personal protective equipment during use and handling of the product.

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		Eye/face protection	Use personal protective equipment during use and handling of the product.
		Thermal hazards	Not available.
	Environmental exposure controls		Under EU environmental protection legislation it is recommended to avoid release of the product and its packaging into the environment. For further information see section 6.2.
SECTION 9	Physical and chemical properties		
9.1	Information on basic physical and chemical properties		
	Physical state		Liquid
	Colour		Colourless
	Odour		Odourless
	Melting point/freezing point		Not available.
	Initial boiling point and boiling range		100 ° C
	Flammability		Non-flammable
	Upper/lower flammability or explosive limits		
	Lower		Not determined.
	Upper		Not determined.
	Flash point		Not available.
	Auto-ignition temperature		Not available.
	Decomposition temperature		Not determined.
	pH		>12
	Viscosity		
	Kinematic		Not available.
	Dynamic		Not available.
	Solubility		
	In water		Fully miscible.
	Partition coefficient: n-octanol/water		Not applicable due to physico-chemical characteristics
	Vapour pressure		Not available.
	Density and/or relative density		1,4-1,6
	Relative vapour density		Not available
	Particle characteristics		Not applicable due to physico-chemical characteristics
9.2	Other information		
	Appearance		Liquid

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Explosives properties	Not explosive
Oxidizing properties	Not available
Information with regard to physical hazard classes	
Explosives	Not applicable due to physico-chemical characteristics.
Flammable gases	Not applicable due to physico-chemical characteristics.
Aerosols	Not applicable due to physico-chemical characteristics.
Oxidising gases	Not applicable due to physico-chemical characteristics.
Gases under pressure	Not applicable due to physico-chemical characteristics.
Flammable liquids	Not applicable due to physico-chemical characteristics.
Flammable solids	Not applicable due to physico-chemical characteristics.
Pyrophobic liquids	Not applicable due to physico-chemical characteristics.
Pyrophobic solids	Not applicable due to physico-chemical characteristics.
Self-reactive substances and mixtures	Not applicable due to physico-chemical characteristics.
Substances and mixtures, which emit flammable gases in contact with water	Not applicable due to physico-chemical characteristics.
Oxidising liquids	Not applicable due to physico-chemical characteristics.
Oxidizing solids	Not applicable due to physico-chemical characteristics.
Organic peroxides	Not applicable due to physico-chemical characteristics.
Corrosive to metals	Not applicable due to physico-chemical characteristics.
Desensitised explosives	Not applicable due to physico-chemical characteristics.
Other safety characteristics	
Mechanical sensitivity	Not applicable due to physico-chemical characteristics.
Self-accelerating polymerisation	Not applicable due to physico-chemical characteristics.

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	Formation of explosible dust/air mixtures	Not applicable due to physico-chemical characteristics.				
	Acid/alkaline reserve	Not applicable due to physico-chemical characteristics.				
	Evaporation rate	Not applicable due to physico-chemical characteristics.				
	Miscibility	Not applicable due to physico-chemical characteristics.				
	Conductivity	Not applicable due to physico-chemical characteristics.				
	Corrosiveness	Not applicable due to physico-chemical characteristics.				
	Gas group	Not applicable due to physico-chemical characteristics.				
	Redox potential	Not applicable due to physico-chemical characteristics.				
	Radical formation potential	Not applicable due to physico-chemical characteristics.				
	Photocatalytic properties	Not applicable due to physico-chemical characteristics.				
SECTION 10	Stability and reactivity					
10.1	Reactivity	Stable under recommended storage conditions.				
10.2	Chemical stability	Chemically stable under the indicated storage, handling and use conditions.				
10.3	Possibility of hazardous reactions	No dangerous reactions known. In normal conditions of storage and use, hazardous reactions are not produced.				
10.4	Conditions to avoid	No specific data. No further relevant information available.				
10.5	Incompatible materials	aluminium, zinc, magnesium, acids.				
10.6	Hazardous	Contact with acid liberates toxic gases. Carbon dioxide.				
SECTION 11	Toxicological information					
11.1	Information on hazard classes as defined in Regulation (EC) No 1272/2008					
	Acute toxicity					
	Component	CAS number	Method	Species	Route	Result
	Potassium carbonate	584-08-7	OECD 401 Not specified Not specified	Rat Rat Rat	Oral Cutaneous Inhalation	DL50 > 2000 mg/kg bw. CL50 > 4,96 mg/l air DL50 > 2000 mg/kg bw
	Urea	57-13-6	OECD 425 OECD 403 OECD 402	Rat Mouse Rat	Oral Inhalation Cutaneous	DL50 > 2000 mg/kg bw. CL50 > 5 mg/L air DL50 > 5000 mg/kg bw
Based on available data, the classification criteria are not met.						

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Skin corrosion/irritation

Component	CAS number	Method	Species	Route	Result
Potassium carbonate	584-08-7	Not specified	Rabbit	Cutaneous	Non irritant
Urea	57-13-6	OECD 404	Rabbit	Cutaneous	Non irritant

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Component	CAS number	Method	Species	Route	Result
Potassium carbonate	584-08-7	Not specified	Rabbit	Ocular	Non irritant
Urea	57-13-6	Not specified	Rabbit	Ocular	Non irritant

Causes serious eye damage.

Respiratory or skin sensitisation

Component	CAS number	Method	Species	Route	Result
Potassium carbonate	584-08-7	Not specified	Guinea Pig	EpiCutaneous	Non sensitising
Urea	57-13-6	OECD 429	Mouse	Cutaneous	Non sensitising.

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Component	CAS number	Method	Species	Result
Potassium carbonate	584-08-7	OECD 471	Bacteria	Non mutagenic
Urea	57-13-6	OECD 471 Not	Bacteria Cromosomal aberration	Non mutagenic

Based on available data, the classification criteria are not met.

Carcinogenicity

Component	CAS number	Method	Species	Route	Result
Potassium carbonate	584-08-7	Not specified	Rat	Oral	NOAEL: 3331 mg/kg bw/d. Non carcinogenic.
Urea	57-13-6	-	-	-	There are no available studies. Study scientifically not necessary.

Based on available data, the classification criteria are not met.

Reproductive toxicity

Component	CAS number	Method	Species	Route	Result
Potassium carbonate	584-08-7	OECD 414	Mouse	Oral	Effects on fertility: NOAEL: 290 mg/kg bw/d. Toxicity for the development: NOAEL: 290 mg/kg bw/d
Urea	57-13-6	OECD 422	Rat	Oral	Data conclusive but not sufficient for classification. -Effects on fertility : NOAEL: 750 mg/kg bw/d. -Toxicity for the development: NOAEL: 750 mg/kg bw/d.

Based on available data, the classification criteria are not met.

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STOT- single exposure					
Component	CAS number	Method	Species	Route	Result
Potassium carbonate	584-08-7	Not available	Not available	Not available	Not available
Urea	57-13-6	Not available	Not available	Not available	Not available
May cause respiratory irritation.					
STOT-repeated exposure					
Component	CAS number	Method	Species	Route	Result
Potassium carbonate	584-08-7	Not specified	Rat	Oral	NOAEL: 6054 mg/kg bw/d
Urea	57-13-6	OECD 422	Rat	Oral	NOAEL: 250 mg/kg bw/d. The substance does not have to be classified as toxic by repeated exposure.
Based on available data, the classification criteria are not met.					
Aspiration hazard					
Component	CAS number	Result			
Potassium carbonate	584-08-7	No significant effects or critical hazards are known.			
Urea	57-13-6	No significant effects or critical hazards are known.			
Based on available data, the classification criteria are not met.					
11.2	Information on other hazards				
	Endocrine disruptive properties				
	Not available				
	Other information				
	Not available				
SECTION 12 Ecological information					
12.1	Toxicity				
	Aquatic toxicity				
Component	N° CAS		Fish	Crustacea	Algae
Potassium carbonate	584-08-7	Short term	CL50(96h): 68 mg/l	Potassium carbonate is not expected to have intrinsic toxicity to aquatic organisms.	CE50(48h): 200 mg/l
		Long term	Potassium carbonate is not expected to have intrinsic toxicity to aquatic organisms.	Potassium carbonate is not expected to have intrinsic toxicity to aquatic organisms.	Not available
Urea	57-13-6	Short term	CL50 (96h): 6810 - 28000 mg/L	No scientifically validated data are available.	CE50 (24h) > 10000 mg/L
		Long term	Not available	Not available	NOEC/CE10 (192h): 47 mg/L

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Terrestrial toxicity					
Component	N° CAS	Macro-organism	Micro-organism	Terrestrial plants	Other organisms
Potassium carbonate	584-08-7	Potassium carbonate is not expected to have	Potassium carbonate and	Potassium carbonate is not	-
Urea	57-13-6	Not available	Not available	Low toxicity of urea on plants	-
Microbiological activity in wastewater treatment plants					
Component	N° CAS	Toxicity to aquatic micro-organisms			
Potassium carbonate	584-08-7	The products of the abiotic dissociation of potassium carbonate are common constituents of the influents of water treatment plants and therefore these are not expected to have an intrinsic toxicity to the organisms present in the sludge.			
Urea	57-13-6	The 72-hour toxicity limit of urea for Entosiphon sulcatumte is 29 mg/l. The 16-hour toxicity limit of urea for Pseudomonas putidawas is > 10000 mg/l.			
12.2	Persistence and degradability				
Component	N° CAS	Degradation			
Potassium carbonate	584-08-7	Hydrolysis	Potassium carbonate dissolves and dissociates immediately into K ⁺ and inorganic carbon species in aquatic ecosystems including soil and water-containing sediments in their pores. Both potassium and inorganic carbon are ubiquitously present in the environment.		
		Photolysis	Not available.		
		Biodegradation	Biodegradation is not relevant as potassium carbonate is an inorganic substance.		
Urea	57-13-6	Hydrolysis	Hydrolysis is not seen. It is not necessary.		
		Photolysis	Not necessary		
		Biodegradation	Not necessary		
12.3	Bioaccumulative potential				
Component	N° CAS	Octanol-water partition coefficient (Kow)	Bioaccumulation factor (BFC)	Observations	
Potassium carbonate	584-08-7	-	-	Potassium carbonate is very soluble in water. Therefore, the substance does not accumulate in the lipophilic tissues of living organisms. In terrestrial and aquatic ecosystems, potassium carbonate will rapidly dissociate from the potassium cation and inorganic carbon species. These are ions naturally present in the environment.	
Urea	57-13-6	Not applicable.	-	-	

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12.4 Mobility in soil					
	Component	N° CAS	Result		
	Potassium carbonate	584-08-7	Due to its ionic character, potassium carbonate has a very low vapor pressure and high solubility in water. Therefore, a very low constant of Henry's Law can be assumed. In addition, no bio or geoaccumulation is expected. Based on this, potassium carbonate will remain mainly in the aqueous phase. On the other hand, due to the ionic character and physicochemical properties, no sorption will occur in soil or organic sediments.		
	Urea	57-13-6	The adsorption of urea in soil increases as the concentration of added urea increases and the adsorption coefficients range from 0,037-0,064.		
12.5 Results of PBT and vPvB assessment					
	Not applicable.				
12.6 Endocrine disrupting properties					
	The product does not contain substances with endocrine disrupting properties.				
12.7 Other adverse effects					
	Significative effects or critics risks are not known.				
SECTION 13 Disposal considerations					
13.1 Waste treatment methods					
	Methods of disposal	<p>Waste management (disposal and recovery): Consult the authorised waste manager for recovery and disposal operations, in accordance with Annex 1 and Annex 2 (Directive 2018/851/EC). Packaging: According to codes 15 01 (Commission Decision 2014/955/EU), if the packaging has been in direct contact with the product, it should be treated in the same way as the product itself, otherwise it should be treated as non-hazardous waste. Discharge into waste water is not recommended. See section 6.2.</p> <p>Waste management provisions: In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH), the Community or national provisions on waste management are presented. Community legislation: Directive 2018/851/EC, Commission Decision 2014/955/EU, Regulation (EU) no. 1357/2014 and the national legislation.</p>			
	Hazardous waste code	HP5: Specific Target Organ Toxicity (STOT)/Aspiration Toxicity HP8: Corrosive			
SECTION 14 Transport information					
	Regulatory information	ADR/RID	ADNR	IMDG	IATA
14.1	UN number	UN3266			
14.2	UN proper shipping name	UN3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.		CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.	
14.3	Transport hazard class(es)				
	Class	8 (C5) Corrosive substances.		8 Corrosive substances.	
	Label	8		8	
14.4	Packing group	I			

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14.5	Environmental hazards	Not applicable.		
14.6	Special precautions for user	Not applicable.		
		Hazard identification number (Kemler code): 88 EMS Number: F-A,S-B Segregation groups (SGG18) Alkalis Stowage Category: B Stowage Code: SW2 Clear of living quarters.		
	Segregation Code:	SG35 Stow "separated from" SGG1-acids		
14.7	Maritime transport in bulk according to IMO instruments	Not applicable.		
Transport/Additional information:		Limited quantities (LQ) 0 Excepted quantities (EQ) Code: E0 Not permitted as Excepted Quantity Transport category 1 Tunnel restriction code E	Limited quantities (LQ): 0 Excepted quantities (EQ) Code: E0 Not permitted as Excepted Quantity	-
UN "Model Regulation		UN 3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. 8, I		
SECTION 15 Regulatory information				
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture			
	Regulation (EC) No 1907/2006 (REACH)	This product complies with the REACH Regulation.		
	SEVESO Category	Not applicable.		
	Qualifying quantity (tonnes) for the application of lower-tier requirements	Not applicable.		
	Qualifying quantity (tonnes) for the application of upper-tier requirements	Not applicable.		
	Named dangerous substances - ANNEX VI (CLP)	None substance listed.		

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	Regulation (EC) No 1907/2006 - ANNEX XVII	Restriction No. 3
	REGULATION (EU) 2019/1148	
	Annex I - Restricted Explosives Precursors (Upper limit value for licensing purposes under Article 5(3))	None substance listed.
	Annex II - Reportable Explosives Precursors	None substance listed.
	Regulation (EC) No 273/2004 on Drug Precursors	None substance listed.
15.2	Chemical safety assessment	
	A chemical safety assessment has not been carried out since this is a mixture (exempt from registration), however the exposure scenarios of the substances that form the composition may be requested.	
SECTION 16 Other information		
	Relevant phrases	H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation.
	Abbreviations and acronyms	ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road). STP: Sewage treatment plant. OECD: Organisation for Economic Co-operation and Development. NOAEL: No observed adverse effect level. IMDG: International Maritime Code for Dangerous Goods. IATA: International Air Transport Association. DNEL: Derived No-Effect Level (REACH). PNEC: Predicted No-Effect Concentration (REACH).
	Data compared to the previous version altered	Inclusion of new trade names. New data on the SDS supplier. Correction in section 2 of the P sentences and section 14. New contact data section 1.3.
	References	This safety data sheet has been prepared in accordance with: - ANNEX II: Guidance for the preparation of Safety Data Sheets of Regulation (EC) No 1907/2006 (Regulation (EU) 2020/878) based on the data included in the chemical safety report of registered substances. - Guidance available on the European Chemicals Agency (ECHA) website: (http://echa.europa.eu/). - Guidance for the compilation of safety data sheets for fertilizer materials (www.fertilizerseurope.com).

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Methods used for the classification of the mixture (Article 9 of Regulation (EC) No 1272/2008)

Classification and Labeling in accordance with the principle of extrapolation of Regulation No. 1272/2008 (CLP).

Advice on any training appropriate for workers to ensure protection of human health and the environment

Minimum training in the prevention of occupational hazards is recommended for personnel who will handle this product, in order to facilitate the understanding and interpretation of this safety data sheet, as well as the product label.

The information contained in this safety data sheet is provided in good faith and its accuracy is based on knowledge of the product at the time of publication. The information presented is only intended to describe the product from the point of view of human and environmental protection and safety, and therefore cannot be regarded as product specifications. It does not imply acceptance of any commitment or legal responsibility on the part of the Company, for the consequences of its use or misuse in any circumstances. The information provided is considered accurate and current at the time of this edition, referring only to the product and may not be valid in compositions or formulations with other products. The responsibility for its use belongs to the users.