



Safety Data Sheet according to (EC) No 1907/2006 as amended

Page 1 of 17

BONDERITE M-NT 2011 KN24 WENS

SDS No. : 480617
V009.0

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

1.1. Product identifier

BONDERITE M-NT 2011 KN24 WENS

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

Intended use:

Products for Conversion Processing

1.3. Details of the supplier of the safety data sheet

Henkel Ltd

Adhesives

Wood Lane End

HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 (1442) 278000

SDSinfo.Adhesive@henkel.com

For Safety Data Sheet updates please visit our website <https://mysds.henkel.com/index.html#/appSelection> or www.henkel-adhesives.com.

1.4. Emergency telephone number

24 Hours Emergency Tel: +44 (0)1442 278497

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

Skin corrosion

Category 1

H314 Causes severe skin burns and eye damage.

Serious eye damage

Category 1

H318 Causes serious eye damage.

2.2. Label elements

Label elements (CLP):

Hazard pictogram:



Signal word:

Danger

Hazard statement:	H314 Causes severe skin burns and eye damage.
Supplemental information	Contains: sodium 3-nitrobenzenesulphonate May produce an allergic reaction.
Precautionary statement: Prevention	P260 Do not breathe mist/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statement: Response	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 or doctor.

2.3. Other hazards

None if used properly.
The classification as corrosive H314 category 1 is due to the extreme pH.

Following substances are present in a concentration \geq the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in a concentration \geq the concentration limit for depiction in Section 3 that are assessed to be a PBT, vPvB or ED.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components CAS-No. EC Number REACH-Reg No.	Concentration	Classification	Specific Conc. Limits, M-factors and ATEs	Add. Information
Ammonium nitrate 6484-52-2 229-347-8 01-2119490981-27	1- < 3 %	Ox. Sol. 3, H272 Eye Irrit. 2, H319		EUEXPL1D
Ammonium hexafluorozirconate 16919-31-6 240-970-4	1- < 2,5 %	Acute Tox. 3, Oral, H301 Acute Tox. 3, Dermal, H311 Skin Corr. 1B, H314 Acute Tox. 3, Inhalation, H331 Eye Dam. 1, H318		EU OEL
Dihydrogen hexafluorozirconate(2-) 12021-95-3 234-666-0 01-2119978267-22	1- < 2,5 %	Acute Tox. 3, Oral, H301 Acute Tox. 3, Dermal, H311 Skin Corr. 1B, H314 Acute Tox. 3, Inhalation, H331 Met. Corr. 1, H290		EU OEL
sodium 3-nitrobenzenesulphonate 127-68-4 204-857-3 01-2119965131-44	0,1- < 1 %	Eye Irrit. 2, H319 Skin Sens. 1, H317		

**If no ATE values are displayed, please refer to LD/LC50 values in Section 11.
For full text of the H - statements and other abbreviations see section 16 "Other information".**

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Move to fresh air, consult doctor if complaint persists.

Skin contact:

Immediately rinse with copious amounts of running water (for 10 minutes). Remove contaminated clothes. Put on a bandage with sterile gauze, seek medical attention in hospital.

Eye contact:

Immediately flush eyes with soft jet of water or eye rinse solution for at least 15 minutes. Hold eyelid wide-open. Seek a doctor/hospital, eye flushing should continue during transportation to a doctor.

Ingestion:

Rinse out mouth, drink 1-2 glasses of water, do not induce vomiting.

Immediate medical treatment necessary.

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

Causes burns.

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

See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

All common extinguishing agents are suitable.

Extinguishing media which must not be used for safety reasons:

None known

5.2. Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in fires.

5.3. Advice for firefighters

Wear self-contained breathing apparatus.

Wear protective equipment.

Additional information:

Cool endangered containers with water spray jet.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes.

6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

6.3. Methods and material for containment and cleaning up

Neutralize with acid-binding material (e.g. powdered limestone).

Take up with liquid-absorbing material (sand).

Dispose of contaminated material as waste according to Section 13.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Avoid skin and eye contact.
- Ensure that workrooms are adequately ventilated.
- See advice in section 8
- When diluting, always stir slowly the product into standing water.

Hygiene measures:

- Wash hands before work breaks and after finishing work.
- Do not eat, drink or smoke while working.
- Wash contaminated clothing before reuse.
- The workplace should be equipped with an emergency shower and eye-rinsing facility.

7.2. Conditions for safe storage, including any incompatibilities

- Store in sealed original container.
- Store frost-free.
- Use vented bungs.
- Do not store together with strong bases or very alkaline substances.

7.3. Specific end use(s)

Products for Conversion Processing

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for
Great Britain

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Ammonium hexafluorozirconate 16919-31-6 [ZIRCONIUM COMPOUNDS (AS ZR)]		5	Time Weighted Average (TWA):		EH40 WEL
Ammonium hexafluorozirconate 16919-31-6 [FLUORIDES, INORGANIC]		2,5	Time Weighted Average (TWA):	Indicative	ECLTV
Ammonium hexafluorozirconate 16919-31-6 [ZIRCONIUM COMPOUNDS (AS ZR)]		10	Short Term Exposure Limit (STEL):	15 minutes	EH40 WEL
Ammonium hexafluorozirconate 16919-31-6 [Flouride (inorganic, as F)]		2,5	Time Weighted Average (TWA):		EH40 WEL
Dihydrogen hexafluorozirconate(2-) 12021-95-3 [ZIRCONIUM COMPOUNDS (AS ZR)]		5	Time Weighted Average (TWA):		EH40 WEL
Dihydrogen hexafluorozirconate(2-) 12021-95-3 [FLUORIDES, INORGANIC]		2,5	Time Weighted Average (TWA):	Indicative	ECLTV
Dihydrogen hexafluorozirconate(2-) 12021-95-3 [ZIRCONIUM COMPOUNDS (AS ZR)]		10	Short Term Exposure Limit (STEL):	15 minutes	EH40 WEL
Dihydrogen hexafluorozirconate(2-) 12021-95-3 [Flouride (inorganic, as F)]		2,5	Time Weighted Average (TWA):		EH40 WEL

Occupational Exposure Limits

Valid for
Ireland

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Ammonium hexafluorozirconate 16919-31-6 [FLUORIDES, INORGANIC]		2,5	Time Weighted Average (TWA):	Indicative OELV	IR_OEL
Ammonium hexafluorozirconate 16919-31-6 [FLUORIDES, INORGANIC]		2,5	Time Weighted Average (TWA):	Indicative	ECLTV
Ammonium hexafluorozirconate 16919-31-6 [Flouride]		2,5	Time Weighted Average (TWA):		IR_OEL
Dihydrogen hexafluorozirconate(2-) 12021-95-3 [FLUORIDES, INORGANIC]		2,5	Time Weighted Average (TWA):	Indicative OELV	IR_OEL
Dihydrogen hexafluorozirconate(2-) 12021-95-3 [FLUORIDES, INORGANIC]		2,5	Time Weighted Average (TWA):	Indicative	ECLTV
Dihydrogen hexafluorozirconate(2-) 12021-95-3 [Flouride]		2,5	Time Weighted Average (TWA):		IR_OEL

Predicted No-Effect Concentration (PNEC):

Name on list	Environmental Compartment	Exposure period	Value				Remarks
			mg/l	ppm	mg/kg	others	
Ammonium nitrate 6484-52-2	sewage treatment plant (STP)		18 mg/l				
Ammonium nitrate 6484-52-2	aqua (freshwater)		0,45 mg/l				
Ammonium nitrate 6484-52-2	aqua (marine water)		0,045 mg/l				
Ammonium nitrate 6484-52-2	aqua (intermittent releases)		4,5 mg/l				
Dihydrogen hexafluorozirconate(2-) 12021-95-3	aqua (freshwater)		0,119 mg/l				
Dihydrogen hexafluorozirconate(2-) 12021-95-3	aqua (marine water)		0,119 mg/l				
Dihydrogen hexafluorozirconate(2-) 12021-95-3	aqua (intermittent releases)		0,078 mg/l				
Dihydrogen hexafluorozirconate(2-) 12021-95-3	sediment (freshwater)				21,1 mg/kg		
Dihydrogen hexafluorozirconate(2-) 12021-95-3	sediment (marine water)				4,22 mg/kg		
Dihydrogen hexafluorozirconate(2-) 12021-95-3	Soil				16,5 mg/kg		
Dihydrogen hexafluorozirconate(2-) 12021-95-3	Sewage treatment plant		1,29 mg/l				
Sodium 3-nitrobenzenesulphonate 127-68-4	aqua (freshwater)		0,5 mg/l				
Sodium 3-nitrobenzenesulphonate 127-68-4	aqua (marine water)		0,05 mg/l				
Sodium 3-nitrobenzenesulphonate 127-68-4	aqua (intermittent releases)		5 mg/l				
Sodium 3-nitrobenzenesulphonate 127-68-4	sediment (freshwater)				2,58 mg/kg		
Sodium 3-nitrobenzenesulphonate 127-68-4	sediment (marine water)				0,258 mg/kg		
Sodium 3-nitrobenzenesulphonate 127-68-4	Soil				0,222 mg/kg		
Sodium 3-nitrobenzenesulphonate 127-68-4	sewage treatment plant (STP)		10000 mg/l				

Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Ammonium nitrate 6484-52-2	Workers	dermal	Long term exposure - systemic effects		5,12 mg/kg	
Ammonium nitrate 6484-52-2	Workers	Inhalation	Long term exposure - systemic effects		36 mg/m ³	
Ammonium nitrate 6484-52-2	General population	Inhalation	Long term exposure - systemic effects		8,9 mg/m ³	
Ammonium nitrate 6484-52-2	General population	oral	Long term exposure - systemic effects		2,56 mg/kg	
Ammonium nitrate 6484-52-2	General population	dermal	Long term exposure - systemic effects		2,56 mg/kg	
Dihydrogen hexafluorozirconate(2-) 12021-95-3	Workers	inhalation	Long term exposure - systemic effects		4,5 mg/m ³	
Dihydrogen hexafluorozirconate(2-) 12021-95-3	Workers	inhalation	Acute/short term exposure - systemic effects		4,5 mg/m ³	
Dihydrogen hexafluorozirconate(2-) 12021-95-3	Workers	inhalation	Long term exposure - local effects		4,5 mg/m ³	
Dihydrogen hexafluorozirconate(2-) 12021-95-3	Workers	dermal	Long term exposure - systemic effects		65 mg/kg	
Dihydrogen hexafluorozirconate(2-) 12021-95-3	Workers	dermal	Acute/short term exposure - systemic effects		65 mg/kg	
Sodium 3-nitrobenzenesulphonate 127-68-4	Workers	Inhalation	Long term exposure - systemic effects		5 mg/m ³	
Sodium 3-nitrobenzenesulphonate 127-68-4	Workers	dermal	Long term exposure - systemic effects		97,6 mg/kg	
Sodium 3-nitrobenzenesulphonate 127-68-4	General population	dermal	Long term exposure - systemic effects		29,3 mg/kg	
Sodium 3-nitrobenzenesulphonate 127-68-4	General population	oral	Long term exposure - systemic effects		2,93 mg/kg	

Biological Exposure Indices:

None

8.2. Exposure controls:

Engineering controls:

Ensure good ventilation/suction at the workplace.

Respiratory protection:

In case of aerosol formation, we recommend wearing of appropriate respiratory protection equipment with ABEK P2 filter (EN 14387).

This recommendation should be matched to local conditions.

Hand protection:

Chemical-resistant protective gloves (EN 374). Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374): Polychloroprene (CR; ≥ 1 mm thickness) or natural rubber (NR; ≥ 1 mm thickness) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): Polychloroprene (CR; ≥ 1 mm thickness) or natural rubber (NR; ≥ 1 mm thickness) This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:

Goggles which can be tightly sealed.
Protective eye equipment should conform to EN166.

Skin protection:

Protective clothing that covers arms and legs.
Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Delivery form	liquid
Colour	colourless to yellowish
Odor	odourless
Physical state	liquid
Melting point	Not applicable, Product is a liquid
Solidification temperature	< 0 °C (< 32 °F) Aqueous solution
Initial boiling point	> 100 °C (> 212 °F)no method / method unknown Aqueous solution
Flammability	Not applicable Aqueous solution
Explosive limits	Not applicable, The product is not flammable.
Flash point	No flash point up to 100°C. Aqueous preparation.
Auto-ignition temperature	Not applicable, Aqueous solution
Decomposition temperature	Not applicable, Substance/mixture is not self-reactive, no organic peroxide and does not decompose under foreseen conditions of use 1,2 PH-value, potentiometer
pH (20 °C (68 °F); Conc.: 100 % product; Solvent: Demineralised water)	
Viscosity (kinematic) (40 °C (104 °F);)	1 - 10 mm ² /s
Solubility (qualitative) (20 °C (68 °F); Solvent: Water)	Miscible
Partition coefficient: n-octanol/water	Not applicable Mixture
Vapour pressure (50 °C (122 °F))	102 - 132 mbar Values referring to water
Vapour pressure (20 °C (68 °F))	23,4 mbar Values referring to water
Density (20 °C (68 °F))	1,023 - 1,053 g/cm ³ density, hydrometer
Relative vapour density: (20 °C)	< 1
Particle characteristics	Not applicable Product is a liquid

9.2. Other information

Other information not applicable for this product

SECTION 10: Stability and reactivity**10.1. Reactivity**

Reaction with strong bases

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

No decomposition if used according to specifications.

10.5. Incompatible materials

See section reactivity.

10.6. Hazardous decomposition products

None if used for intended purpose.

In case of fire toxic gases can be released.

SECTION 11: Toxicological information**General toxicological information:**

The classification as corrosive H314 category 1 is due to the extreme pH.

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**Acute oral toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Ammonium nitrate 6484-52-2	LD50	2.462 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Ammonium hexafluorozirconate 16919-31-6	LD50	> 50 - < 300 mg/kg	rat	OECD Guideline 423 (Acute Oral toxicity)
sodium 3- nitrobenzenesulphonate 127-68-4	LD50	> 5.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)

Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Ammonium nitrate 6484-52-2	LD50	> 5.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)

Acute inhalative toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Test atmosphere	Exposure time	Species	Method
Ammonium nitrate 6484-52-2	LC50	> 88,8 mg/l		4 h	rat	not specified

Skin corrosion/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Ammonium nitrate 6484-52-2	not irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Ammonium nitrate 6484-52-2	irritating	24 h	rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Species	Method
Ammonium nitrate 6484-52-2	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
sodium 3- nitrobenzenesulphonate 127-68-4	sensitising	Guinea pig maximisation test	guinea pig	EU Method B.6 (Skin Sensitisation)

Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Ammonium nitrate 6484-52-2	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
sodium 3- nitrobenzenesulphonate 127-68-4	negative	in vitro mammalian chromosome aberration test	with and without		not specified
sodium 3- nitrobenzenesulphonate 127-68-4	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		not specified
sodium 3- nitrobenzenesulphonate 127-68-4	negative	oral: unspecified		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Carcinogenicity

No data available.

Reproductive toxicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Test type	Route of application	Species	Method
Ammonium nitrate 6484-52-2	NOAEL P >= 1.500 mg/kg		oral: gavage	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Ammonium nitrate 6484-52-2	NOAEL P >= 1.500 mg/kg		oral: gavage	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

STOT-single exposure:

No data available.

STOT-repeated exposure:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
Ammonium nitrate 6484-52-2	NOAEL >= 1.500 mg/kg	oral: gavage	daily	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
sodium 3- nitrobenzenesulphonate 127-68-4	LOAEL >= 1.000 mg/kg	oral: gavage	28 days daily	rat	Guidelines for 28-Day Repeat Dose Toxicity Test (Japan)

Aspiration hazard:

No data available.

11.2 Information on other hazards

not applicable

SECTION 12: Ecological information**General ecological information:**

Do not empty into drains / surface water / ground water.

Locally harmful for aquatic and landliving organisms because of low pH and corrosive properties.

12.1. Toxicity**Toxicity (Fish):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Ammonium nitrate 6484-52-2	LC50	447 mg/l	48 h	Cyprinus carpio	other guideline:
Ammonium hexafluorozirconate 16919-31-6	LC50	> 200 mg/l	96 h	Leuciscus idus	OECD Guideline 203 (Fish, Acute Toxicity Test)
Dihydrogen hexafluorozirconate(2-) 12021-95-3	LC50	172,4 mg/l	96 h	Danio rerio	OECD Guideline 203 (Fish, Acute Toxicity Test)
sodium 3- nitrobenzenesulphonate 127-68-4	LC50	> 500 mg/l	96 h	Leuciscus idus	DIN 38412-15

Toxicity (aquatic invertebrates):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Ammonium nitrate 6484-52-2	EC50	490 mg/l	48 h	Daphnia magna	other guideline:
Ammonium hexafluorozirconate 16919-31-6	EC50	50 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Dihydrogen hexafluorozirconate(2-) 12021-95-3	EC50	151,4 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
sodium 3- nitrobenzenesulphonate 127-68-4	EC50	8.665 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Chronic toxicity (aquatic invertebrates):

No data available.

Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Ammonium nitrate 6484-52-2	EC50	83 mg/l	72 h	Scenedesmus quadricauda	OECD Guideline 201 (Alga, Growth Inhibition Test)
Dihydrogen hexafluorozirconate(2-) 12021-95-3	EC50	10,66 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Dihydrogen hexafluorozirconate(2-) 12021-95-3	EC10	1,63 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
sodium 3- nitrobenzenesulphonate 127-68-4	EC50	> 500 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	DIN 38412-09

Toxicity (microorganisms):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Ammonium nitrate 6484-52-2	EC0	790 mg/l	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
sodium 3- nitrobenzenesulphonate 127-68-4	EC10	> 10.000 mg/l	17 h		not specified

12.2. Persistence and degradability

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
sodium 3- nitrobenzenesulphonate 127-68-4	not readily biodegradable.	aerobic	0 %	30 d	EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test)
sodium 3- nitrobenzenesulphonate 127-68-4	not inherently biodegradable	aerobic	> 90 %		OECD Guideline 302 B (Inherent biodegradability: Zahn- Wellens/EMPA Test)

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	LogPow	Temperature	Method
sodium 3-nitrobenzenesulphonate 127-68-4	-2,61	25 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

12.5. Results of PBT and vPvB assessment

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	PBT / vPvB
Ammonium nitrate 6484-52-2	According to Annex XIII to Regulation (EC) No 1907/2006, a PBT and vPvB assessment shall not be conducted for inorganic substances.
Dihydrogen hexafluorozirconate(2-) 12021-95-3	According to Annex XIII to Regulation (EC) No 1907/2006, a PBT and vPvB assessment shall not be conducted for inorganic substances.
sodium 3-nitrobenzenesulphonate 127-68-4	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

12.6. Endocrine disrupting properties

not applicable

12.7. Other adverse effects

If acidic or alkaline products are discharged into wastewater installations care must be taken that the discharged wastewater has a pH in the range pH 6 - 10, as pH variations could cause disorders in wastewater channels and biological sewage treatment plants. The local discharge regulations take precedence.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

In consultation with the responsible local authority, must be subjected to special treatment.

Waste code

060199

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

SECTION 14: Transport information

14.1. UN number or ID number

ADR	3264
RID	3264
ADN	3264
IMDG	3264
IATA	3264

14.2. UN proper shipping name

ADR	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hexafluoro zirconic acid)
RID	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hexafluoro zirconic acid)
ADN	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hexafluoro zirconic acid)
IMDG	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hexafluoro zirconic acid)
IATA	Corrosive liquid, acidic, inorganic, n.o.s. (Hexafluoro zirconic acid)

14.3. Transport hazard class(es)

ADR	8
RID	8
ADN	8
IMDG	8
IATA	8

14.4. Packing group

ADR	II
RID	II
ADN	II
IMDG	II
IATA	II

14.5. Environmental hazards

ADR	not applicable
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

14.6. Special precautions for user

ADR	not applicable Tunnelcode: (E)
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009):	Not applicable
Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):	Not applicable
Persistent organic pollutants (Regulation (EU) 2019/1021):	Not applicable
VOC content (2010/75/EU)	0 %

This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point. Please see https://ec.europa.eu/home-affairs/what-we-do/policies/counter-terrorism/protection/implementation-explosives-precursors-legislation_en.

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

National regulations/information (Great Britain):

Remarks	Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, e.g COSHH Essentials. EH40 Occupational Exposure Limits Chemicals (Hazard Information & Packaging for Supply) Regulations. The Personnel Protective Equipment at Work Regulations. The Carriage of Dangerous Goods by Road Regulations. The Health & Safety at Work Act 1974. (Note: Use latest editions/amendments of above referenced documents.)
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SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

H272 May intensify fire; oxidizer.
H290 May be corrosive to metals.
H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.

ED:	Substance identified as having endocrine disrupting properties
EU OEL:	Substance with a Union workplace exposure limit
EU EXPLD 1:	Substance listed in Annex I, Reg (EC) No. 2019/1148
EU EXPLD 2	Substance listed in Annex II, Reg (EC) No. 2019/1148
SVHC:	Substance of very high concern (REACH Candidate List)
PBT:	Substance fulfilling persistent, bioaccumulative and toxic criteria
PBT/vPvB:	Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very bioaccumulative criteria
vPvB:	Substance fulfilling very persistent and very bioaccumulative criteria

Further information:

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This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

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