

**KELANTREN 520Fe****SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Trade name	: KELANTREN 520Fe
Chemical name	: Acetic acid, oxo-, sodium salt, reaction products with ethylenediamine and hydroxybenzenesulfonic acid monosodium salt, iron sodium salts
Synonyms	: EDDHSAFe, aqueous solution
Product code	: 202015

**1.2. Relevant identified uses of the substance or mixture and uses advised against****1.2.1. Relevant identified uses**

Use of the substance/mixture : Agriculture.

**1.2.2. Uses advised against**

No additional information available

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

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**1.4. Emergency telephone number**Emergency number : +34 93 729 32 77  
(Office hours)**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]****Adverse physicochemical, human health and environmental effects**

Not classified.

**2.2. Label elements****Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

No labelling applicable

No labelling applicable

**2.3. Other hazards**

No additional information available

**SECTION 3: Composition/information on ingredients****3.1. Substance**

Not applicable

**3.2. Mixture**

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Acetic acid, oxo-, sodium salt, reaction products with ethylenediamine and hydroxybenzenesulfonic acid monosodium salt, iron sodium salts	(CAS No) 84539-54-9 (EC no) 283-042-5 (REACH-no) 01-21199-46570-37-0001		Not classified

Full text of H-statements: see section 16

**KELANTREN 520Fe****SECTION 4: First aid measures****4.1. Description of first aid measures**

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Allow breathing of fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

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

No additional information available

**SECTION 5: Firefighting measures****5.1. Extinguishing media**

Suitable extinguishing media	: Foam. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream. powder, carbon dioxide.

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

No additional information available

**5.3. Advice for firefighters**

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****6.1.1. For non-emergency personnel**

Emergency procedures : Evacuate unnecessary personnel.

**6.1.2. For emergency responders**

Protective equipment : Equip cleanup crew with proper protection.  
Emergency procedures : Ventilate area.

**6.2. Environmental precautions**

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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

Methods for cleaning up : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

**6.4. Reference to other sections**

See Heading 8. Exposure controls and personal protection.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

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

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Heat sources, Direct sunlight. Keep container closed when not in use.  
Incompatible products : Strong bases. Strong acids.  
Incompatible materials : Sources of ignition. Direct sunlight.

**7.3. Specific end use(s)**

No additional information available

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**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Acetic acid, oxo-, sodium salt, reaction products with ethylenediamine and hydroxybenzenesulfonic acid monosodium salt, iron sodium salts (84539-54-8)**

**DNEL/DMEL (Workers)**

Long-term - systemic effects, dermal	3,33 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	23,5 mg/m <sup>3</sup>

**DNEL/DMEL (General population)**

Long-term - systemic effects, oral	1,67 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	5,8 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	1,67 mg/kg bodyweight/day

**PNEC (Water)**

PNEC aqua (freshwater)	6,4 mg/l
PNEC aqua (marine water)	0,64 mg/l
PNEC aqua (intermittent, freshwater)	1 mg/l

**PNEC (Sediment)**

PNEC sediment (freshwater)	1660,66 mg/kg dwt
PNEC sediment (marine water)	166,1 mg/kg dwt

**PNEC (Soil)**

PNEC soil	32 mg/kg dwt
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**PNEC (Oral)**

PNEC oral (secondary poisoning)	33,3 mg/kg food
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**PNEC (STP)**

PNEC sewage treatment plant	45 mg/l
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**8.2. Exposure controls**

Appropriate engineering controls	: Ensure good ventilation of the work station.
Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear protective gloves
Eye protection	: Chemical goggles or safety glasses
Respiratory protection	: Wear appropriate mask



Other information : Do not eat, drink or smoke during use.

**SECTION 9: Physical and chemical properties**

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

**Information on basic physical and chemical properties: EDDHSAFe. Aqueous solution.**

<b>Physical state (Mixture)</b>	: Aqueous solution.
<b>Colour (Mixture)</b>	: dark red
<b>Odour (Mixture)</b>	: Barely perceptible
<b>pH solution</b>	: 6 - 7 ( Aqueous solution 1%, 20°C)
<b>Freezing point(°C)</b>	: No information available
<b>Boiling point (Preparation.)</b>	: Similar to water
<b>Relative Density (Mixture)</b>	: 1,28 - 1,29 g/cm <sup>3</sup> (20°C)
<b>Solubility</b>	: completely soluble

**KELANTREN 520Fe****Information on basic physical and chemical properties: Acetic acid, oxo-, sodium salt, reaction products with ethylenediamine and hydroxybenzenesulfonic acid monosodium salt, iron sodium salts**

Physical state	: Solid
Colour	: dark red.
Odour	: Barely perceptible.
Odour threshold	: No information available
pH	: 6,5 - 7,5 ( Aqueous solution 1%, 20°C)
Melting point	: 360 °C (OECD 102)
Boiling point	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: > 420 °C (EU Method A16)
Decomposition temperature	: > 420 °C
Flammability (solid, gas)	: Not flammable
Vapour pressure	: < 0,00001 Pa (20°C); (OECD 104)
Relative density	: 1,582 g/cm <sup>3</sup> (OECD109)
Relative evaporation rate (ether=1)	: Similar to water
Solubility in water	: Water: completely miscible (20 °C)
Log Pow	: -4 (OECD 109)
Explosive properties	: Product is not explosive.
Oxidising properties	: Non oxidizing.
Viscosity	: Not applicable

**9.2. Other information**

Bulk density : 600 kg/m<sup>3</sup> Approximately

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

Stable under use and storage conditions as recommended in section 7.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

Stable under use and storage conditions as recommended in section 7.

**10.4. Conditions to avoid**

Direct sunlight. Extremely high or low temperatures. Avoid dust formation. Take precautionary measures against static discharges.

**10.5. Incompatible materials**

Strong acids. Strong bases. Oxidizing agent. In the presence of humidity corrodes copper, zinc and numerous alloys. Avoid aluminium.

**10.6. Hazardous decomposition products**

fume. Carbon monoxide. Carbon dioxide.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Information on toxicological effects: Acetic acid, oxo-, sodium salt, reaction products with ethylenediamine and hydroxybenzenesulfonic acid monosodium salt, iron sodium salts**

Acute toxicity : **Not classified**  
(Results based on a similar product)

LD50 oral rat	> 2000 mg/kg bw/day (OECD 423)
LD50 dermal rabbit	> 2000 mg/kg bodyweight (OECD 402)
LC50 inhalation rat (Vapours - mg/l/4h)	> 4200 mg/l/4h (OECD 403)

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<b>Skin corrosion/irritation</b>	: Based on available data, the classification criteria are not met (In-vivo. rabbit) (OECD 404 method) (Results based on a similar product)
<b>Serious eye damage/irritation</b>	: Based on available data, the classification criteria are not met (In-vivo. rabbit) (OECD 405 method) (Results based on a similar product)
<b>Respiratory or skin sensitisation</b>	: Based on available data, the classification criteria are not met ((guinea pigs)) (OECD 406 method) (Results based on a similar product)
<b>Germ cell mutagenicity</b>	: Based on available data, the classification criteria are not met ((OECD 471 method)) (OECD 473 method) (Results based on a similar product)
<b>Carcinogenicity</b>	: Based on available data, the classification criteria are not met No information available
<b>Reproductive toxicity</b>	: Based on available data, the classification criteria are not met (DL50(28d)>1000 mg/kg bw) (OECD 407 method) (Results based on a similar product)
<b>Specific target organ toxicity (single exposure)</b>	: Based on available data, the classification criteria are not met (Results based on a similar product)
<b>Specific target organ toxicity (repeated exposure)</b>	: Based on available data, the classification criteria are not met (Results based on a similar product)
<b>Aspiration hazard</b>	: Not applicable
<b>Other information</b>	: (*) Available data used to identify those effects: <a href="http://apps.echa.europa.eu/registered/registered-sub.aspx">http://apps.echa.europa.eu/registered/registered-sub.aspx</a> .

**SECTION 12: Ecological information**

**Ecological information: Acetic acid, oxo-, sodium salt, reaction products with ethylenediamine and hydroxybenzenesulfonic acid monosodium salt, iron sodium salts**

**12.1. Toxicity**

LC50 fish 1	> 100 mg/l (96h) Oncorhynchus mykiss (OECD 203)
LC50 other aquatic organisms 1	(48h) Daphnia Magna (OECD 202)
LC50 other aquatic organisms 2	(72h) Scenedesmus subcapitus (OECD 201)
Additional information	(Results based on a similar product)

**12.2. Persistence and degradability**

Persistence and degradability	Not readily biodegradable.
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Biodegradation	38,7 % (OECD 301 B)
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**12.3. Bioaccumulative potential**

Log Pow	-4 (OECD 109)
Bioaccumulative potential	No bioaccumulative potential.

**12.4. Mobility in soil**

Ecology - soil	Ionic structure under environmental relevant pH conditions.No adsorption onto the organic fraction of soil or sediments is expected.
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**12.5. Results of PBT and vPvB assessment**

Results of PBT assessment	Not classified
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**12.6. Other adverse effects**

Other adverse effects : Avoid release to the environment.

(\*) Available data used to identify those effects: <http://apps.echa.europa.eu/registered/registered-sub.aspx>

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
Ecology - waste materials : Avoid release to the environment.

**SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

**14.1. UN number**

Not regulated for transport

**14.2. UN proper shipping name**

Proper Shipping Name (ADR) : Not applicable  
Proper Shipping Name (IMDG) : Not applicable  
Proper Shipping Name (IATA) : Not applicable  
Proper Shipping Name (ADN) : Not applicable  
Proper Shipping Name (RID) : Not applicable

**14.3. Transport hazard class(es)**

**ADR**

Transport hazard class(es) (ADR) : Not applicable

**IMDG**

Transport hazard class(es) (IMDG) : Not applicable

**IATA**

Transport hazard class(es) (IATA) : Not applicable

**ADN**

Transport hazard class(es) (ADN) : Not applicable

**RID**

Transport hazard class(es) (RID) : Not applicable

**14.4. Packing group**

Packing group (ADR) : Not applicable  
Packing group (IMDG) : Not applicable

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Packing group (IATA) : Not applicable  
 Packing group (ADN) : Not applicable  
 Packing group (RID) : Not applicable

**14.5. Environmental hazards**

Dangerous for the environment : No  
 Marine pollutant : No  
 Other information : No supplementary information available

**14.6. Special precautions for user**

**14.6.1. Overland transport**

**14.6.2. Transport by sea**

**14.6.3. Air transport**

**14.6.4. Inland waterway transport**

Carriage prohibited (ADN) : No  
 Not subject to ADN : No

**14.6.5. Rail transport**

Carriage prohibited (RID) : No

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

**SECTION 15: Regulatory information**

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

**15.1.1. EU-Regulations**

Contains no REACH substances with Annex XVII restrictions  
 Contains no substance on the REACH candidate list  
 Contains no REACH Annex XIV substances

**15.1.2. National regulations**

No additional information available

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out

**SECTION 16: Other information**

Indication of changes:

SECTION 16.

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
IARC	International Agency for Research on Cancer
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
DPD	Dangerous Preparations Directive 1999/45/EC
DSD	Dangerous Substances Directive 67/548/EEC
EC50	Median effective concentration
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose

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LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rai
SDS	Safety Data Sheet
STP	Sewage treatment plant
TLM	Median Tolerance Limit
vPvB	Very Persistent and Very Bioaccumulative

### Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. Commission Regulation (EC) No 790/2009-CLP 01ATP  
 Commission Regulation (EC) No 286/2011-CLP 02ATP  
 Commission Regulation (EC) No 618/2012- CLP 03ATP  
 Commission Regulation (EC) No 487/2013-CLP 04ATP  
 Commission Regulation (EC) No 944/2013-CLP 05ATP  
 Commission Regulation (EC) No 605/2014-CLP 06ATP. Comission Regulation (EC) No 790/2009- CLP 01ATP  
 : [http://www.oecd.org/document/40/0,3343,en\\_2649\\_34377\\_37051368\\_1\\_1\\_1\\_1,00.html](http://www.oecd.org/document/40/0,3343,en_2649_34377_37051368_1_1_1_1,00.html)  
 : <http://apps.echa.europa.eu/registered/registered-sub.aspx>  
 EU RAR EDTANa4  
[http://www.baua.de/de/Chemikaliengesetz-Biozidverfahren/Dokumente/RAR\\_061.pdf?\\_\\_blob=publicationFile&v=2](http://www.baua.de/de/Chemikaliengesetz-Biozidverfahren/Dokumente/RAR_061.pdf?__blob=publicationFile&v=2)  
 Bachtelder et al.;Bull. Environm. Contam. Toxicol. 24: 543-549; EU Risk Assessment 2004  
 Sillanpaa et al. Chemosphere 33(6):119-1127; Oser et al, Tox. And app. Pharmacol. 5, 142-162(1963)//Schardein et al., Tox. And appl. Pharmacol. 61, 423-428 (1981). Comission Regulation (EC) No 790/2009- CLP 01ATP  
 : [http://www.oecd.org/document/40/0,3343,en\\_2649\\_34377\\_37051368\\_1\\_1\\_1\\_1,00.html](http://www.oecd.org/document/40/0,3343,en_2649_34377_37051368_1_1_1_1,00.html)  
 : <http://apps.echa.europa.eu/registered/registered-sub.aspx>  
 EU RAR EDTAH4  
[http://www.baua.de/de/Chemikaliengesetz-Biozidverfahren/Dokumente/RAR\\_061.pdf?\\_\\_blob=publicationFile&v=2](http://www.baua.de/de/Chemikaliengesetz-Biozidverfahren/Dokumente/RAR_061.pdf?__blob=publicationFile&v=2)  
 Bachtelder et al.;Bull. Environm. Contam. Toxicol. 24: 543-549; EU Risk Assessment 2004  
 Bringmann G;Zeitschrift fuer Wasser- und Abwasser-Forschung 10(5): 161-166 (1977); Oser et al, Tox. And app. Pharmacol. 5, 142-162(1963)//Schardein et al., Tox. And appl. Pharmacol. 61, 423-428 (1981).

### Other information

: **If you require the Exposure Scenarios (Annex I), please contact with our Commercial Department: [droca@dabeer.es](mailto:droca@dabeer.es).**

### FDS EU (DABEER)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*