

according to Regulation (EC) No 1907/2006

# Reagent 130+R2492

Revision date: 22.08.2022 Product code: 130+R2492 Page 1 of 12

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

# 1.1. Product identifier

Reagent 130+R2492

UFI: XS7C-NRDD-430D-0KVX

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

#### Use of the substance/mixture

Laboratory chemicals

Industrial uses: Uses of substances as such or in preparations at industrial sites

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

#### Uses advised against

Do not use for private purposes (household).

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

Company name: Fa. Bernd Kraft GmbH Street: Stempelstraße 6 Place: D-47167 Duisburg

Telephone: 0203/5194-0 Telefax: 0203/5194-290

e-mail: info@berndkraft.de

Contact person: Abteilung Produktsicherheit Telephone: 0203/5194-107/117

e-mail: produktsicherheit@berndkraft.de

Internet: www.berndkraft.de

Responsible Department: Abteilung Produktsicherheit

**1.4. Emergency telephone** For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire,

<u>number:</u> Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada:

1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls

accepted)

#### **Further Information**

This product is a mixture. REACH Registration Number see section 3.

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

#### Regulation (EC) No 1272/2008

Met. Corr. 1; H290 Skin Corr. 1A; H314 Eye Dam. 1; H318 STOT RE 2; H373

Full text of hazard statements: see SECTION 16.

# 2.2. Label elements

# Regulation (EC) No 1272/2008

# Hazard components for labelling

EDTA Na 2 sodium hydroxide

Signal word: Danger

Pictograms:







according to Regulation (EC) No 1907/2006

# Reagent 130+R2492

Revision date: 22.08.2022 Product code: 130+R2492 Page 2 of 12

#### **Hazard statements**

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H373 May cause damage to organs (Respiratory tract) through prolonged or repeated exposure

if inhaled

#### **Precautionary statements**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

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.

#### 2.3. Other hazards

No information available.

### **SECTION 3: Composition/information on ingredients**

# 3.2. Mixtures

#### **Chemical characterization**

Mixtures in aqueous solution

#### **Hazardous components**

CAS No	Chemical name	Chemical name				
	EC No	Index No	REACH No			
	Classification (Regulation	(EC) No 1272/2008)				
6381-92-6	EDTA Na 2			20 - < 25 %		
	205-358-3		01-2119486775-20			
	Acute Tox. 4, STOT RE 2;	Acute Tox. 4, STOT RE 2; H332 H373				
1310-73-2	sodium hydroxide	sodium hydroxide				
	215-185-5	011-002-00-6	01-2119457892-27			
	Met. Corr. 1, Skin Corr. 1A	Met. Corr. 1, Skin Corr. 1A; H290 H314				

Full text of H and EUH statements: see section 16.

# Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc.	Limits, M-factors and ATE	
6381-92-6	205-358-3	EDTA Na 2	20 - < 25 %
	inhalation: ATE 2800 mg/kg	E = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); oral: LD50 =	
1310-73-2	215-185-5	sodium hydroxide	5 - < 10 %
		H314: >= 5 - 100 Skin Corr. 1B; H314: >= 2 - < 5 Skin Irrit. 2; H315: >= 0,5 - < H319: >= 0,5 - < 2	

# **Further Information**

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

### **SECTION 4: First aid measures**

# 4.1. Description of first aid measures



according to Regulation (EC) No 1907/2006

# Reagent 130+R2492

Revision date: 22.08.2022 Product code: 130+R2492 Page 3 of 12

#### **General information**

First aider: Pay attention to self-protection!

#### After inhalation

Provide fresh air.

Call a physician immediately.

### After contact with skin

Wash immediately with: Water

Take off immediately all contaminated clothing and wash it before reuse.

Call a physician immediately.

#### After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Remove contact lenses, if present and easy to do. Continue rinsing.

#### After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Adverse human health effects and symptoms: Gastric perforation. Call a physician immediately. Do not allow a neutralisation agent to be drunk.

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

Skin corrosion/irritation

Dyspnoea

Cough

Circulatory collapse

Risk of serious damage to eyes.

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

No data available

# **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

# Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

# Unsuitable extinguishing media

no restriction

# 5.2. Special hazards arising from the substance or mixture

Non-combustible liquids

# 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Avoid contact with skin, eyes and clothes.

#### **Additional information**

Suppress gases/vapours/mists with water spray jet.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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

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

#### General advice

Corrosive to metals.

#### For non-emergency personnel

Provide adequate ventilation.

Use personal protection equipment.

Avoid contact with skin, eyes and clothes.

Remove persons to safety.



according to Regulation (EC) No 1907/2006

# Reagent 130+R2492

Revision date: 22.08.2022 Product code: 130+R2492 Page 4 of 12

**Emergency procedures** 

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

#### For emergency responders

Precautionary statements For emergency responders: Personal protection equipment: see section 8

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

#### For containment

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers).

Collect in closed and suitable containers for disposal.

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

#### For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

#### Other information

Provide adequate ventilation.

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

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Advice on safe handling

Do not breathe vapour/aerosol.

Read label before use.

# Advice on protection against fire and explosion

No special fire protection measures are necessary.

# Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

#### Further information on handling

Take off immediately all contaminated clothing and wash it before reuse.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Draw up and observe skin protection programme. Wash hands before breaks and after work.

# 7.2. Conditions for safe storage, including any incompatibilities

### Requirements for storage rooms and vessels

Provide adequate ventilation as well as local exhaustion at critical locations.

Unsuitable container/equipment material:

Metal

Aluminium

Tin

Zinc

### Further information on storage conditions

Keep container tightly closed.

# 7.3. Specific end use(s)

Laboratory chemicals



according to Regulation (EC) No 1907/2006

# Reagent 130+R2492

Revision date: 22.08.2022 Product code: 130+R2492 Page 5 of 12

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

#### 8.1. Control parameters

#### Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
1310-73-2	Sodium hydroxide	1	2		STEL (15 min)	

#### **DNEL/DMEL values**

CAS No	Substance					
DNEL type		Exposure route	Effect	Value		
6381-92-6	EDTA Na 2					
Worker DNEL	., long-term	inhalation	local	1,5 mg/m³		
Worker DNEL	., acute	inhalation	local	3 mg/m³		
Consumer DN	IEL, long-term	inhalation	local	0,6 mg/m³		
Consumer DN	IEL, acute	inhalation	local	1,2 mg/m³		
Consumer DN	IEL, long-term	oral	systemic	25 mg/kg bw/day		
1310-73-2	sodium hydroxide					
Worker DNEL, long-term		inhalation	local	1 mg/m³		
Consumer DN	IEL, long-term	inhalation	local	1 mg/m³		

### **PNEC** values

CAS No	Substance			
Environmental compartment		Value		
6381-92-6 EDTA Na 2				
Freshwater		2,2 mg/l		
Freshwater (intermittent releases)		1,2 mg/l		
Marine water		0,22 mg/l		
Micro-organism	Micro-organisms in sewage treatment plants (STP)			

#### 8.2. Exposure controls

### Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Do not breathe vapour/aerosol.

# Individual protection measures, such as personal protective equipment

#### Eye/face protection

Suitable eye protection: goggles.

#### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

Print date: 22.08.2022



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

Reagent 130+R2492

Product code: 130+R2492 Revision date: 22.08.2022 Page 6 of 12

By long-term hand contact

KCL 741 Dermatril® L Trade name/designation: NBR (Nitrile rubber) 0,11 mm Recommended material: Wearing time with permanent contact: > 480 min

By short-term hand contact

Trade name/designation: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with occasional contact (splashes): > 480 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

#### Skin protection

Wear suitable protective clothing.

# Respiratory protection

Respiratory protection necessary at: aerosol or mist formation

#### **Environmental exposure controls**

Do not allow to enter into surface water or drains.

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

# 9.1. Information on basic physical and chemical properties

Physical state: Liquid Colour: colourless Odour. odourless Odour threshold:

No data available

Melting point/freezing point: No data available Boiling point or initial boiling point and No data available

boiling range: Flammability

Solid/liquid: not applicable not applicable Gas: Lower explosion limits: not applicable Upper explosion limits: not applicable Flash point:

Auto-ignition temperature: No data available Decomposition temperature: No data available 12.4

pH-Value:

Viscosity / kinematic: No data available Water solubility: very soluble

Solubility in other solvents

not determined

Partition coefficient n-octanol/water: No data available Vapour pressure: No data available Vapour pressure: No data available No data available Density: Bulk density: No data available Relative vapour density: No data available

# 9.2. Other information



according to Regulation (EC) No 1907/2006

# Reagent 130+R2492

Revision date: 22.08.2022 Product code: 130+R2492 Page 7 of 12

# Information with regard to physical hazard classes

Explosive properties

not applicable

Sustaining combustion:

No data available

Self-ignition temperature

Solid: not applicable
Gas: not applicable

Oxidizing properties Not oxidising.

Other safety characteristics

Evaporation rate: No data available No data available Solvent separation test: Solvent content: 0 Solid content: No data available Sublimation point: Softening point: No data available Pour point: No data available Viscosity / dynamic: No data available No data available Flow time:

Further Information
Corrosive to metals.

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

Corrosive to metals.

#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

Metal, Light metal (Formation of: Hydrogen)

Phenols

Combustible substance

Alkaline earth metal (Metal powder)

Acids, Nitriles

### 10.4. Conditions to avoid

No data available

# 10.5. Incompatible materials

Aluminium, Brass, Glass Tin, Zinc, Aluminium plastic

# 10.6. Hazardous decomposition products

No known hazardous decomposition products.

#### **Further information**

No data available

# **SECTION 11: Toxicological information**

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

### Toxicocinetics, metabolism and distribution

There are no data available on the preparation/mixture itself.



according to Regulation (EC) No 1907/2006

# Reagent 130+R2492

Revision date: 22.08.2022 Product code: 130+R2492 Page 8 of 12

#### **Acute toxicity**

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

If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects).

CAS No	Chemical name	Chemical name						
	Exposure route	Dose		Species	Source		Method	
6381-92-6	EDTA Na 2							
	oral	LD50 mg/kg	2800	Rat	Study repo	rt (1973)	BASF-TEST: In principle, the methods des	
	inhalation vapour	ATE	11 mg/l					
	inhalation dust/mist	ATE	1,5 mg/l					

#### Irritation and corrosivity

Causes severe skin burns and eye damage.

Causes serious eye damage.

#### Sensitising effects

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

# Carcinogenic/mutagenic/toxic effects for reproduction

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

### STOT-single exposure

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

#### STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure. (EDTA Na 2)

Respiratory tract

#### **Aspiration hazard**

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

#### Specific effects in experiment on an animal

There are no data available on the preparation/mixture itself.

#### Additional information on tests

There are no data available on the preparation/mixture itself.

#### **Practical experience**

There are no data available on the preparation/mixture itself.

# 11.2. Information on other hazards

#### Other information

There are no data available on the preparation/mixture itself.

### **Further information**

Skin corrosion/irritation

Dyspnoea

Cough

Circulatory collapse

Risk of serious damage to eyes.

# **SECTION 12: Ecological information**

### 12.1. Toxicity

There are no data available on the preparation/mixture itself.



according to Regulation (EC) No 1907/2006

# Reagent 130+R2492

Revision date: 22.08.2022 Product code: 130+R2492 Page 9 of 12

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
6381-92-6	EDTA Na 2						
	Acute fish toxicity	LC50	41 mg/l	96 h	Lepomis macrochirus	Bull. Environm. Contam. Toxicol. 24: 543	The static water acute toxicity tests fo
	Acute algae toxicity	ErC50 mg/l	> 100	72 h	Pseudokirchneriella subcapitata	Study report (2001)	OECD Guideline 201
	Acute crustacea toxicity	EC50	140 mg/l	48 h	Daphnia magna	Study report (1989)	other: DIN 38412, part 11
	Fish toxicity	NOEC mg/l	>= 25,7	35 d	Danio rerio	Study report (2001)	OECD Guideline 210
	Crustacea toxicity	NOEC	25 mg/l	21 d	Daphnia magna	Study report (1998)	other: EEC Guideline XI/681/86, Draft 4:
1310-73-2	sodium hydroxide						
	Acute crustacea toxicity	EC50 mg/l	40,4	48 h	Ceriodaphnia sp.	Ecotoxicology and Environmental Safety,4	other: acute 48-h immobilization test ac

# 12.2. Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

# 12.3. Bioaccumulative potential

not applicable

### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
6381-92-6	EDTA Na 2	-4,3

# BCF

CAS No	Chemical name	BCF	Species	Source
6381-92-6	EDTA Na 2	ca. 1,8	Lepomis macrochirus	Proc. 3rd. Ann. Symp

# 12.4. Mobility in soil

There are no data available on the preparation/mixture itself.

# 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

# 12.7. Other adverse effects

Discharge into the environment must be avoided.

#### **Further information**

Do not allow to enter into surface water or drains.

# **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

# **Disposal recommendations**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Do not empty into drains.

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



according to Regulation (EC) No 1907/2006

# Reagent 130+R2492

Revision date: 22.08.2022 Product code: 130+R2492 Page 10 of 12

#### Contaminated packaging

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

# **SECTION 14: Transport information**

14.1. UN number or ID number: UN 1824

14.2. UN proper shipping name: SODIUM HYDROXIDE SOLUTION

14.3. Transport hazard class(es): 14.4. Packing group: Ш Hazard label: 8 Classification code: C5 Limited quantity: 1 I Excepted quantity: F2 Transport category: 2 Hazard No: 80 Tunnel restriction code: F

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 1824

14.2. UN proper shipping name: SODIUM HYDROXIDE SOLUTION

14.3. Transport hazard class(es):814.4. Packing group:IIHazard label:8Classification code:C5Limited quantity:1 LExcepted quantity:E2

Marine transport (IMDG)

14.1. UN number or ID number: UN 1824

14.2. UN proper shipping name: SODIUM HYDROXIDE SOLUTION

14.3. Transport hazard class(es):814.4. Packing group:IIHazard label:8Special Provisions:-Limited quantity:1 LExcepted quantity:E2EmS:F-A, S-BSegregation group:alkalis

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1824

14.2. UN proper shipping name: SODIUM HYDROXIDE SOLUTION

14.3. Transport hazard class(es):814.4. Packing group:IIHazard label:8Special Provisions:A3 A803Limited quantity Passenger:0.5 LPassenger LQ:Y840Excepted quantity:E2

IATA-packing instructions - Passenger:851IATA-max. quantity - Passenger:1 LIATA-packing instructions - Cargo:855IATA-max. quantity - Cargo:30 L

# 14.5. Environmental hazards



according to Regulation (EC) No 1907/2006

Reagent 130+R2492

Revision date: 22.08.2022 Product code: 130+R2492 Page 11 of 12

ENVIRONMENTALLY HAZARDOUS: No

#### 14.6. Special precautions for user

Warning: strongly corrosive.

# 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

#### **EU** regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

Information according to 2012/18/EU

(SEVESO III):

Not subject to 2012/18/EU (SEVESO III)

**National regulatory information** 

**5** 

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC).

Water hazard class (D): 2 - obviously hazardous to water

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

#### Changes

This data sheet contains changes from the previous version in section(s): 9,12.

### 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)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

# Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Met. Corr. 1; H290	On basis of test data
Skin Corr. 1A; H314	Calculation method
Eye Dam. 1; H318	Calculation method
STOT RE 2; H373	Calculation method

# Relevant H and EUH statements (number and full text)

H290	May be corrosive to metals.	
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H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H373 May cause damage to organs (Respiratory tract) through prolonged or repeated exposure

if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure.

### **Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product



Print date: 22.08.2022



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# Reagent 130+R2492

Revision date: 22.08.2022 Product code: 130+R2492 Page 12 of 12

named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)