

## Sodium carbonate / hydrogen carbonate eluent for IC 3.2 mmol/l Na2CO3 + 1.0 mmol/l NaHCO3 + 50 ml ac

Revision date: 01.04.2022

Product code: 23067

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

## 1.1. Product identifier

Sodium carbonate / hydrogen carbonate eluent for IC 3.2 mmol/l Na2CO3 + 1.0 mmol/l NaHCO3 + 50 ml ac

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

## Use of the substance/mixture

Laboratory chemical

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 Danger	ous Goods] Incidents Spill, Leak, Fire,
number:	-	REC Day or Night Within USA and Canada:
	1-800-424-9300 Outside USA and C	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 Flam. Liq. 3; H226

Full text of hazard statements: see SECTION 16.

## 2.2. Label elements

Regulation (EC) No 1272/2008		
Signal word:	Warning	
Pictograms:		

## Hazard statements

H226

Flammable liquid and vapour.

## Precautionary statement

recautionary statement	ls in the second s
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing



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P303+P361+P353	protection. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with
	water or shower.
P403+P235	Store in a well-ventilated place. Keep cool.

#### 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		Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
67-64-1	acetone			1 - < 5 %
	200-662-2	606-001-00-8	01-2119471330-49	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066			

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. L	imits, M-factors and ATE	
67-64-1	200-662-2	acetone	1 - < 5 %
	dermal: LD50 = > 7426 mg/kg; oral: LD50 = 5800 mg/kg		

## **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

## **General information**

No data available

#### After inhalation

Provide fresh air.

## After contact with skin

Wash immediately with: Water Take off immediately all contaminated clothing and wash it before reuse.

#### After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

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

## After ingestion

Call a physician immediately.

#### 4.2. Most important symptoms and effects, both acute and delayed No data available

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



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No data available

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

## Suitable extinguishing media

Water spray jet, Carbon dioxide (CO2), Foam, Extinguishing powder.

## Unsuitable extinguishing media

no restriction

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

Combustible liquid.

In case of warming:

Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Hazardous combustion products

In case of fire may be liberated: Carbon dioxide (CO2), Carbon monoxide

## 5.3. Advice for firefighters

Remove persons to safety. Do not inhale explosion and combustion gases.

Avoid contact with skin, eyes and clothes.

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

Use water spray jet to protect personnel and to cool endangered containers.

## Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Suppress gases/vapours/mists with water spray jet. Move undamaged containers from immediate hazard area if it can be done safely.

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

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

## **General advice**

Keep away from sources of ignition - No smoking.

This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe).

Take action to prevent static discharges.

## For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Remove persons to safety. 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.

The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

#### Danger of explosion

## 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).



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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

Read label before use. Handle and open container with care. When using do not eat, drink, smoke, sniff. Keep container tightly closed. Use personal protection equipment. Use extractor hood (laboratory). Do not breathe vapour/aerosol. Provide adequate ventilation.

## Advice on protection against fire and explosion

Take action to prevent static discharges. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### 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 and face before breaks and after work and take a shower if necessary.

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

#### Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

## Hints on joint storage

Do not store together with: Oxidising agent. Pyrophoric or self-heating substances.

## Further information on storage conditions

Vapours may form explosive mixtures with air.

## 7.3. Specific end use(s)

Laboratory use Laboratory chemical

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters



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## **Occupational exposure limits**

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
67-64-1	Acetone	500	1210		TWA (8 h)	

## **Biological limit values**

CAS No	Substance	Parameter	Value	Test material	Sampling time
67-64-1	Acetone	Acetone	50 mg/L	Urine	End of shift

## **DNEL/DMEL** values

CAS No	Substance				
DNEL type Exposure route Effect Va			Value		
67-64-1	acetone	acetone			
Worker DNEL	, long-term	inhalation	systemic	1210 mg/m <sup>3</sup>	
Worker DNEL	., acute	inhalation	local	2420 mg/m³	
Worker DNEL	., long-term	dermal	systemic	186 mg/kg bw/day	
Consumer DN	IEL, long-term	inhalation	systemic	200 mg/m³	
Consumer DN	IEL, long-term	dermal	systemic	62 mg/kg bw/day	
Consumer DN	IEL, long-term	oral	systemic	62 mg/kg bw/day	

## **PNEC** values

CAS No	Substance	
Environmen	Environmental compartment Value	
67-64-1	acetone	
Freshwater		10,6 mg/l
Freshwater (intermittent releases) 21 mg/l		
Marine water 1,06 mg/l		1,06 mg/l
Freshwater sediment 30,4 mg/kg		30,4 mg/kg
Marine sediment 3,04 mg/kg		3,04 mg/kg
Micro-organisms in sewage treatment plants (STP)		100 mg/l
Soil 29,5 mg/kg		29,5 mg/kg

## 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.

## Individual protection measures, such as personal protective equipment

## Eye/face protection

Suitable eye protection: goggles.

## Hand protection

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

By long-term hand contact Trade name/designation: KCL 897 Butoject® Suitable material: Butyl caoutchouc (butyl rubber) 0,3 mm



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Wearing time with permanent contact: > 480 min

By short-term hand contact Trade name/designation: KCL 897 Butoject® Suitable material: Butyl caoutchouc (butyl rubber) 0,3 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

Flame-retardant protective clothing. Wear anti-static footwear and clothing

## **Respiratory protection**

Respiratory protection necessary at: aerosol or mist formation

#### **Environmental exposure controls**

The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

Danger of explosion

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

## 9.1. Information on basic physical and chemical properties

Physical state:	Liquid	
Colour:	colourless	
Odour:	characteristic	
Odour threshold:	No data available	
Changes in the physical state		
Melting point/freezing point:		No data available
Boiling point or initial boiling point and		>35 °C
boiling range:		
Sublimation point:		No data available
Softening point:		No data available
Pour point:		No data available
No data available:		
Flash point:		~55 °C
Flammability		
Solid/liquid:		not applicable
Gas:		not applicable
Explosive properties		
Vapours can form explosive mixtures	with air.	
Lower explosion limits:		No data available
Upper explosion limits:		No data available
Auto-ignition temperature:		No data available
Self-ignition temperature		
Solid:		not applicable
Gas:		not applicable
Decomposition temperature:		No data available



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pH-Value:	No data available			
Viscosity / dynamic: (at 20 °C)	No data available			
Viscosity / kinematic:	No data available			
Flow time:	No data available			
Water solubility:	completely miscible			
Solubility in other solvents not determined				
Dissolution rate:	No data available			
Partition coefficient n-octanol/water:	No data available			
Dispersion stability:	No data available			
Vapour pressure:	No data available			
Vapour pressure:	No data available			
Density:	0,9895 g/cm³ No data available			
Relative density: Bulk density:	No data available			
Relative vapour density:	No data available			
Particle characteristics:	No data available			
9.2. Other information				
Information with regard to physical hazard class				
Sustaining combustion:	No data available			
Oxidizing properties Not oxidising.				
Other safety characteristics				
Solvent separation test:	No data available			
Solvent content:	No data available			
Solid content:	No data available			
Evaporation rate:	No data available			
Further Information				
No data available				
SECTION 10: Stability and reactivity				

#### 10.1. Reactivity

In case of warming: Vapours can form explosive mixtures with air.

## 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

## 10.3. Possibility of hazardous reactions

Oxidising agent

## 10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.

## 10.5. Incompatible materials

No data available



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## 10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon dioxide (CO2), Carbon monoxide

#### 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 mixture itself.

#### Acute toxicity

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

CAS No	Chemical name						
	Exposure route	Dose		Species	Source	Method	
67-64-1	acetone						
	oral	LD50 mg/kg	5800	Rat	J Toxicol Environ Health 15: 609-621 (19	Undiluted acetone applied to female rats	
	dermal	LD50 mg/kg	> 7426	Rabbit	Toxicol Appl Pharmacol 7: 559-565. (1965	other: Code of federal regulations: 21 C	

#### Irritation and corrosivity

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

#### 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

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

#### Aspiration hazard

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

#### Information on likely routes of exposure

There are no data available on the mixture itself.

#### Specific effects in experiment on an animal

There are no data available on the mixture itself.

## Additional information on tests

There are no data available on the mixture itself.

#### Practical experience

There are no data available on the mixture itself.

## 11.2. Information on other hazards

#### Endocrine disrupting properties

There are no data available on the mixture itself.

#### Other information

There are no data available on the mixture itself.



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## Further information

There are no data available on the mixture itself.

## **SECTION 12: Ecological information**

## 12.1. Toxicity

There are no data available on the mixture itself.

CAS No Chemical name								
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method	
67-64-1	acetone							
	Acute fish toxicity	LC50 mg/l	8120	96 h	Pimephales promelas	Publication (1984)	OECD Guideline 203	
	Acute crustacea toxicity	EC50 mg/l	8800	48 h	Daphnia pulex	Publication (1978)	The toxicity of acetone towards daphnids	
	Crustacea toxicity	NOEC mg/l	2212	28 d	Daphnia magna	Arch Environm Contam Toxicol 12: 305-310	Study conducted comparable to OECD 211 w	
	Acute bacteria toxicity	(EC50 mg/l)	61150	· · ·	activated sludge of a predominantly domestic sewag	Water Res 26: 887-892 (1992)	ISO 8192	

## 12.2. Persistence and degradability

There are no data available on the mixture itself.

## 12.3. Bioaccumulative potential

There are no data available on the mixture itself.

## Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
67-64-1	acetone	-0,23

## BCF

CAS No	Chemical name	BCF	Species	Source
67-64-1	acetone	3		Unpublished calculat

## 12.4. Mobility in soil

There are no data available on the 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.

The product has not been tested.

## 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

Do not empty into drains.

## **Further information**

Avoid release to the environment.

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods



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## **Disposal recommendations**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Send to a physico-chemical treatment facility under observation of official regulations. Do not empty into drains.

## Contaminated packaging

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

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

#### **SECTION 14: Transport information**

Land transport (ADR/RID)	
14.1. UN number or ID number:	UN 1993
14.2. UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (acetone)
14.3. Transport hazard class(es):	3
14.4. Packing group:	III
Hazard label:	3
Classification code:	F1
Special Provisions:	274 601
Limited quantity:	5 L
Excepted quantity:	E1
Transport category:	3
Hazard No:	30
Tunnel restriction code:	D/E
Inland waterways transport (ADN)	
<u>14.1. UN number or ID number:</u>	UN 1993
14.2. UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (acetone)
<u>14.3. Transport hazard class(es):</u>	3
14.4. Packing group:	III
Hazard label:	3
Classification code:	F1
Special Provisions:	274 601
Limited quantity:	5 L
Excepted quantity:	E1
Marine transport (IMDG)	
14.1. UN number or ID number:	UN 1993
14.2. UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (acetone)
14.3. Transport hazard class(es):	3
14.4. Packing group:	III
Hazard label:	3
Special Provisions:	223, 274, 955
Limited quantity:	5 L
Excepted quantity:	E1
EmS:	F-E, S-E
Air transport (ICAO-TI/IATA-DGR)	
14.1. UN number or ID number:	UN 1993
14.2. UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (acetone)
14.3. Transport hazard class(es):	3
14.4. Packing group:	
Hazard label:	3
Special Provisions:	A3
Limited quantity Passenger:	10 L
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Passenger LQ: Excepted quantity: IATA-packing instructions - Passenger: IATA-max. quantity - Passenger: IATA-packing instructions - Cargo: IATA-max. quantity - Cargo:	Y344 E1 355 60 L 366 220 L
14.5. Environmental hazards	220 L
ENVIRONMENTALLY HAZARDOUS:	Νο
<u>14.6. Special precautions for user</u> Warning: Combustible liquid. <u>14.7. Maritime transport in bulk according t</u> not applicable	
SECTION 15: Regulatory information	
15.1. Safety, health and environmental requ	ulations/legislation specific for the substance or mixture
EU regulatory information Restrictions on use (REACH, annex XVII) Entry 3, Entry 40, Entry 75 Information according to 2012/18/EU (SEVESO III):	P5c FLAMMABLE LIQUIDS
National regulatory information	
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).
Water hazard class (D):	1 - slightly hazardous to water
15.2. Chemical safety assessment	
For this substance a chemical safety a	assessment has not been carried out.
SECTION 16: Other information	
Abbreviations and acronyms ADR: Accord européen sur le transpo (European Agreement concerning the IMDG: International Maritime Code fo IATA: International Air Transport Asso GHS: Globally Harmonized System of	ociation f Classification and Labelling of Chemicals ing Commercial Chemical Substances
	ation method according to Regulation (EC) No 1272/2008 [CLP]
	cation procedure

Classification				
	Flam. Liq. 3; H226	On basis of test data		
	Relevant H and EUH statements (number and full text)			
H225 Highly flammable liquid and vapour.		y flammable liquid and vapour.		
H226 Flammable liquid and vapour.		mable liquid and vapour.		



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## according to Regulation (EC) No 1907/2006

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H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.

## **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 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 information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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