according to Regulation (EC) No. 1907/2006



# Sodium bicarbonate

31437-6X500G

Version 1.4 Revision Date 17.12.2022

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

#### 1.1. Product identifier

Product name : Sodium bicarbonate

SDS-number : 000000015541

Type of product : Substance

Remarks : Document according to Art. 32 of Regulation (EC) 1907/2006.

In accordance to the Article 14 (4) of the REACh Regulation

(EC) No 1907/2006, exposure estimation and risk

characterisation is not required.

Chemical name : Sodium hydrogencarbonate

CAS-No. : 144-55-8

REACH Registration

Number

: no data available

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

Use of the : Laboratory chemicals

Substance/Mixture

Uses advised against : none

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

Company : Honeywell International Inc. Honeywell International, Inc.

115 Tabor Road 115 Tabor Road

07950-2546 Morris Plains Morris Plains, NJ 07950-2546

USA USA

Telephone

For further information,

please contact:

SafetyDataSheet@Honeywell.com

### 1.4. Emergency telephone number

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Emergency telephone : +1-703-527-3887 (ChemTrec-Transport)

number +1-303-389-1414 (Medical)

Country based Poison : see chapter 15.1

Control Center

### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

# **REGULATION (EC) No 1272/2008**

Not a hazardous substance or mixture.

### 2.2. Label elements

### **REGULATION (EC) No 1272/2008**

Not a hazardous substance or mixture.

#### 2.3. Other hazards

None known. Results of PBT and vPvB assessment, see chapter 12.5.

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

### 3.1. Substance

Chemical name	CAS-No. Index-No. REACH Registration Number EC-No.	Classification 1272/2008	Concentration	Remarks
Sodium hydrogencarbonate	144-55-8 205-633-8		100 %	N.C.*

N.C.\* - Non-hazardous substance - for information only

### 3.2. Mixture

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Not applicable

Occupational Exposure Limit(s), if available, are listed in Section 8. For the full text of the H-Statements mentioned in this Section, see Section 16.

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

### 4.1 Description of first aid measures

#### General advice:

First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately.

#### Inhalation:

If inhaled, remove to fresh air. Call a physician if irritation develops or persists.

#### Skin contact:

After contact with skin, wash immediately with plenty of water. If symptoms persist, call a physician.

#### Eve contact:

Rinse thoroughly with plenty of water, also under the eyelids. Protect unharmed eye. If eye irritation persists, consult a specialist.

### Ingestion:

Immediately give large quantities of water to drink. If accidentally swallowed obtain immediate medical attention.

# 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

No data available

See Section 11 for more detailed information on health effects and symptoms.

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### **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

Suitable extinguishing media: Water spray Foam Carbon dioxide (CO2) Dry powder

Extinguishing media which shall not be used for safety reasons: High volume water jet

# 5.2. Special hazards arising from the substance or mixture

In case of fire hazardous decomposition products may be produced such as: Carbon monoxide Carbon dioxide (CO2)

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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

# 6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

# 6.2. Environmental precautions

Should not be released into the environment.

# 6.3. Methods and materials for containment and cleaning up

Use mechanical handling equipment.

Pick for disposal in tightly closed containers

# 6.4. Reference to other sections

according to Regulation (EC) No. 1907/2006



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For personal protection see section 8.

# **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Advice on safe handling:

Wear suitable protective clothing and gloves. Provide exhaust ventilation if dust is formed.

Advice on protection against fire and explosion:

Normal measures for preventive fire protection. The product itself does not burn.

Hygiene measures:

General industrial hygiene practice.

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

Further information on storage conditions:

Store in original container. Keep in a dry, cool place. Keep containers tightly closed in a dry, cool and well-ventilated place.

Advice on common storage:

Acids

# 7.3. Specific end use(s)

no additional data available

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

# 8.1. Control parameters

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

# **DNEL/ PNEC-Values**

No DNEL-data available.

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| No data available | No data available | No data available |

No PNEC data available. | Sodium hydrogencarbonate | No data available | No data available |

#### 8.2. Exposure controls

### Occupational exposure controls

The Personal Protective Equipment must be in accordance with EN standards:respirator EN 136, 140, 149; safety glasses EN 166; protective suit: EN 340, 463, 468, 943-1, 943-2; gloves EN 374, 511; safety shoes EN-ISO 20345.

### Personal protective equipment

Respiratory protection:

In the case of dust or aerosol formation use respirator with an approved filter.

Hand protection:

Glove material: Natural Latex Break through time: > 480 min Glove thickness: 0,6 mm

Lapren®706

Gloves must be inspected prior to use.

Replace when worn.

Remarks: Supplementary note: The specifications are based on information and tests from similar substances by analogy.

Due to varying conditions (e.g.temperature or other strains) it must be considered that the usage of a chemical protective glove in practice may be much shorter than the permeation time determined in accordance with EN 374.

Since actual conditions of practical use often deviate from standardised conditions according EN 374 the glove manufacturer reccomends to use the chemical protective glove in practice not longer than 50% of the recomended permeation time.

Manufacturer's directions for use should be observed because of great diversity of types . Suitable gloves tested according EN 374 are supplied e.g. from KCL GmbH, D-36124 Eichenzell, Vertrieb@kcl.de

Eve protection:

Safety glasses with side-shields

Skin and body protection:

Wear suitable protective equipment.

Wear as appropriate:

according to Regulation (EC) No. 1907/2006



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Protective suit

# **Environmental exposure controls**

Handle in accordance with local environmental regulations and good industrial practices.

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

# 9.1. Information on basic physical and chemical properties

Physical state : solid

Colour : colourless

Odour : odourless

molecular weight : 84,01 g/mol

Melting point/range : Not applicable

Decomposes before melting.

Boiling point/boiling range : Not applicable

Flammability : The product is not flammable.

Upper explosion limit : Not applicable

Lower explosion limit : Not applicable

Flash point : Not applicable

Auto-ignition temperature : Not applicable

Decomposition temperature : 50 °C

Decomposition temperature

No decomposition if used as directed.

pH : 8,0 - 8,6

at 20 °C

Auto-ignition temperature : not auto-flammable

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Viscosity, kinematic : Not applicable

Water solubility : 90 g/l

at 20 °C

Partition coefficient: n-

octanol/water

: No data available

Vapour pressure : negligible

Density : ca. 2,2 g/cm3

at 20 °C

Bulk density : ca. 1.000 - 1.200 kg/m3

Relative vapour density : No data available

9.2 Other Information

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Evaporation rate : No data available

Viscosity, dynamic : Not applicable

# **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

Stable under normal conditions.

# 10.2. Chemical stability

>50 °C

Decomposition temperature

No decomposition if used as directed.

### 10.3. Possibility of hazardous reactions

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No dangerous reaction known under conditions of normal use.

### 10.4. Conditions to avoid

Protect from heat/overheating.

#### 10.5. Incompatible materials

Acids

### 10.6. Hazardous decomposition products

Carbon dioxide (CO2)

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

Acute oral toxicity:

LD50

Species: Rat

Value: 4.220 mg/kg

Acute dermal toxicity:
No data available

Acute inhalation toxicity:

Not classified due to data which are conclusive although insufficient for classification.

Skin irritation:
Species: Rabbit
Result: slight irritation
Method: Draize Test

Eye irritation:
Species: Rabbit
Result: slight irritation
Method: Draize Test

Respiratory or skin sensitisation:

No data available

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Repeated dose toxicity: Note: No data available

Carcinogenicity:

Note: Not classified due to data which are conclusive although insufficient for classification.

Germ cell mutagenicity:

Note: Not classified due to data which are conclusive although insufficient for classification.

Reproductive toxicity:

Remarks: Not classified due to data which are conclusive although insufficient for classification.

Aspiration hazard: No data available

#### 11.2. Information on other hazards

Endocrine disrupting properties

No data available

Other information: No data available

# **SECTION 12: Ecological information**

# 12.1. Toxicity

Toxicity to fish:

LC50

Species: Lepomis macrochirus (Bluegill sunfish)

Value: 8.250 - 9.000 mg/l Exposure time: 96 h

LC50

Species: Gambusia affinis (Mosquito fish)

Value: 7.100 mg/l Exposure time: 96 h

Toxicity to aquatic plants:

Not classified due to data which are conclusive although insufficient for classification.

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Toxicity to Microorganisms:

No data available

Toxicity to aquatic invertebrates:

EC50

Species: Daphnia magna (Water flea)

Value: 2.350 mg/l Exposure time: 48 h

Chronic toxicity to aquatic invertebrates:

NOEC

Species: Daphnia magna (Water flea)

Value: > 576 mg/l Exposure time: 21 d

# 12.2. Persistence and degradability

No data available

### 12.3. Bioaccumulative potential

No data available

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

No data available

# 12.6. Endocrine disrupting properties

No data available

### 12.7. Other adverse effects

Do not flush into surface water or sanitary sewer system.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Product:

Dispose according to legal requirements.

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Packaging:

Legal requirements are to be considered in regard of reuse or disposal of used packaging materials

Further information:

Provisions relating to waste:

EC Directive 2006/12/EC; 2008/98/EEC

Regulation No. 1013/2006

For personal protection see section 8.

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

#### 14.1 UN number

ADR/RID:Not dangerous goods IMDG:Not dangerous goods IATA:Not dangerous goods

# 14.2 UN proper shipping name

ADR/RID:Not dangerous goods IMDG:Not dangerous goods IATA:Not dangerous goods

#### 14.3 Transport hazard class(es)

### 14.4 Packaging group

#### 14.5 Environmental hazards

ADR/RID:no Marine pollutant: no

# 14.6 Special precautions for user

No data available

### 14.7 Maritime transport in bulk according to IMO instruments

No data available

### **SECTION 15: Regulatory information**

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

Basis	Value	Remarks
Directive 2012/18/EC		Not applicable

according to Regulation (EC) No. 1907/2006



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Substances of very high concern (SVHC)	This product does not contain substances of very high concern according to Regulation (EC) No Article 57 above the respective regulatory 1907/2006 (REACH), concentration limit of ≥ 0.1 % (w/w).
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# **Poison Control Center**

Country	Phone Number
Austria	+4314064343
Belgium	070 245245
Bulgaria	(+)35929154233
Croatia	(+3851)23-48-342
Cyprus	+357 2240 5611
Czech Republic	+420224919293; +420224915402
Denmark	82121212
Estonia	16662; (+372)6269390
Finland	9471977
France	+33(0)145425959
Greece	+30 210 779 3777
Hungary	(+36-80)201-199
Iceland	5432222
Ireland	+353(1)8092166
Italy	0382 24444
	Berlin : 030/19240
	Bonn : 0228/19240
Germany	Erfurt : 0361/730730
Gennally	Freiburg : 0761/19240
	Göttingen : 0551/19240
	Homburg : 06841/19240

Country	Phone Number
Liechtenstein	+41 442515151
Lithuania	+370532362052
Luxembourg	070245245; (+352)80002-5500
Malta	+356 2395 2000
Netherlands	030-2748888
Norway	22591300
Poland	+48 42 25 38 400
Portugal	800250250
Romania	+40 21 318 3606
Slovakia (NTIC)	+421 2 54 774 166
Slovenia	+386 1 400 6051
Spain	+34915620420
Sweden	112 (begär Giftinformation);+46104566786
Switzerland	145
United Kingdom	(+44) 844 892 0111

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	Mainz : 06131/19240
	Munich : 089/19240
Latvia	+37167042473

### Other inventory information

US. Toxic Substances Control Act On TSCA Inventory

Australia. Inventory of Industrial Chemicals (AIIC), as amended On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL) All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List
On the inventory, or in compliance with the inventory

Korea. Existing Chemicals Inventory (KECI)
On the inventory, or in compliance with the inventory

Philippines. Inventory of Chemicals and Chemical Substances (PICCS) On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances (IECSC) On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand On the inventory, or in compliance with the inventory

Taiwan Chemical Substance Inventory (TCSI)
On the inventory, or in compliance with the inventory

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

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

### **Further information**

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All directives and regulations refer to amended versions.

Vertical lines in the left hand margin indicate a relevant amendment from the previous version.

#### Abbreviations:

EC European Community
CAS Chemical Abstracts Service
DNEL Derived no effect level
PNEC Predicted no effect level
vPvB Very persistent and very biaccumulative substance
PBT Persistent, bioaccmulative und toxic substance

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user.

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