SAFETY DATA SHEET

Version: 3.0 Date: 5th February 2021

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name	SODIUM BICARBONATE POWDER FINE FOOD GRADE
Substance name	Sodium hydrogencarbonate
Alternative names	Bicarbonate of Soda, Baking Soda, Soda Bicarb.
Chemical Formula	$NaHCO_3$
CAS No.	144-55-8
EINECS No.	205-633-8
REACH Registration No.	01-2119457606-32-00XX

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

Identified Use(s): Agents absorbing gases or liquids; Flame retardant; Foam(blowing) agents; Food/feedstuff additives; Laboratory chemicals; Odour agent; Pharmaceutical substance; Processing aid, not otherwise listed; Blasting agent; Fire extinguishing agent; Animal feed additive; Neutralisng agent; Renal dialyisis.

1.3 Uses advised against: None

Details of the supplier of the safety data sheet

Company Identification:

BAY HOUSE INGREDIENTS
Unit 3 Quatro Park, Tanners Drive, Milton Keynes MK14 5FJ
ENGLAND

Telephone	+ 44 (0) 1908 210270
E-mail (competent person)	sales@bay-house.co.uk

1.4 Emergency telephone number

Emergency Phone No.: + 44 (0) 1908 210270

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 Regulation (EC) No. 1272/2008 (CLP): Not classified as hazardous for supply/use.

2.2 Label elements

According to Regulation (EC) No. 1272/2008 (CLP)

Product Name	SODIUM BICARBONATE
Substance name	Sodium hydrogencarbonate
CAS No.	144-55-8
EINECS No.	205-633-8
Hazard Pictogram(s)	None assigned.
Signal Word(s)	None assigned.

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Hazard Statement(s)	None assigned.
Precautionary Statement(s)	None assigned.
Supplemental information	None assigned.

2.3 Other hazards None known

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

SUBSTANCE	CAS No.	EC No.	REACH Registration No.	%W/W
Sodium hydrogencarbonate	144-55-8	205-633-8	01-2119457606-32-00XX	> 98.5

Hazardous impurities
No other components or impurities which will influence the classification of the product

SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Self-protection of the first aider	No action should be taken involving personal risk. Use personal protective equipment as required. Ensure adequate ventilation. Avoid inhalation of dusts. Avoid contact with skin and eyes.
Inhalation	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
Skin contact	IF ON SKIN: Gently wash with plenty of soap and water. If irritation develops and persists, get medical attention.
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.
Ingestion	IF SWALLOWED: Rinse mouth. Give plenty of water to drink. Do NOT induce vomiting. If you feel unwell, seek medical advice (show the label where possible).

4.2 Most important symptoms and effects, both acute and delayed None anticipated.

4.3 Indication of any immediate medical attention and special treatment needed Unlikely to be required but if necessary treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	As appropriate for surrounding fire.
Unsuitable extinguishing media	Do not use water jet. Direct water jet may spread the fire.

5.2 Special hazards arising from the substance or mixture Not flammable. Decomposes on heating. Combustion products: Carbon dioxide.

5.3 Advice for firefighters Fight fire with normal precautions from a reasonable distance. Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Keep containers cool by spraying with water if exposed to fire. Avoid run off to waterways and sewers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures No action should be taken involving personal risk. Wear appropriate personal protective equipment, avoid direct contact. Ensure adequate ventilation. Avoid

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		breathing dust. Remove contaminated clothing and wash all affected areas with plenty of water. Avoid dust generation.
6.2	**Environmental precautions**	Avoid release to the environment.
6.3	**Methods and material for containment and cleaning up**	Damp down to avoid dust generation. Use vacuum cleaner to collect spilt material. Recover the product where possible. Ventilate the area and wash spill site after material pick-up is complete. Transfer to a container for disposal or recovery.
6.4	**Reference to other sections**	See Section: 8,13

SECTION 7: HANDLING AND STORAGE

7.1	**Precautions for safe handling**	Ensure adequate ventilation. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Remove contaminated clothing and wash clothing before reuse.
7.2	**Conditions for safe storage, including any incompatibilities**	Keep container tightly closed. Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources. Control dust formation.
	Storage temperature	Keep in a cool, well ventilated place. Preferably at a temperature below 25°C and humidity of less than 65%
	Suitable material:	Paper and Polyethylene
	Unsuitable material:	No data available
	Incompatible materials	Keep away from: Acids
7.3	**Specific end use(s)**	See Section: 1.2

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational exposure limits

The UK HSE (EH40) recommends the following limits for dusts: 10 mg/m^3 (8hr TWA) total inhalable dust; 4 mg/m^3 (8hr TWA) total respirable dust.

Substance	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
Silica, amorphous	-	-	6	-	-	WEL Inhalable Dust
		-	2.4	-	-	Respirable Dust

Source: WEL: Workplace Exposure Limit (UK HSE EH40).
Note: Applicable for Dessikarb® only

8.1.2 Biological limit value

Not established

8.1.3 PNECs and DNELs

After assessment of the physicochemical, toxicokinetic and physiological role of sodium bicarbonate, a DNEL Long-term derivation is considered unnecessary
Sodium bicarbonate is considered to be of no toxicological concern, in acute studies no local irritation was noted. A DNELacute derivation is considered unnecessary
The lowest L(E)C50 value is > 100 mg/l (48-h EC50 with Daphnia magna is 3,100 mg/l) and the lowest chronic value is > 0.1 mg/l (21-d NOEC with Daphnia magna is >576 mg/l).
Therefore, sodium bicarbonate is not classified according to EU Directive 67/548/EEC or EU Classification, Regulation, Labelling and Packaging of Substances and Mixtures (CLP) Regulation (EC) No. 1272/2008.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure adequate ventilation. Special ventilation should be used to convey finely divided metallic dust generated by grinding, sawing or polishing operations, in order to eliminate explosion hazards.

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8.2.2	**Individual protection measures, such as personal protective equipment**	Keep good industrial hygiene. Wear appropriate personal protective equipment, avoid direct contact. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke at the work place. Avoid breathing dust.

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Eye/ face protection 	Wear eye protection with side protection (EN166). Eyewash bottles should be available.
Skin protection 	**Hand protection:** Wear impervious gloves (EN374). Gloves should be changed regularly to avoid permeation problems. Breakthrough time of the glove material: refer to the information provided by the gloves' producer. Protective index 6, corresponding > 480 minutes of permeation time according to EN 374. **Body protection:** Wear dust-resistant protective clothing.
Respiratory protection 	Not normally required. Wear suitable respiratory protective equipment if processing involves working in areas where dusts or vapours are likely to be evolved. In case of inadequate ventilation wear respiratory protection. Recommended: EN143 Type A-P2.
Thermal hazards	Not applicable.

8.2.3	**Environmental exposure controls**	Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	White crystalline powder
Odour	Odourless
Odour threshold	Not applicable
pH	8.4 (saturated solution, study result, EU Method A.6)
Melting point/freezing point	Not applicable
Initial boiling point and boiling range	Not applicable
Flash point	Not applicable (inorganic substance)
Evaporation rate	Not applicable
Flammability (solid, gas)	Not applicable (study result, EU Method A.10)
Upper/lower flammability or explosive limits	Not applicable
Vapour pressure	Not applicable
Vapour density	Not applicable
Relative density	2.21 – 2.23 @20°C (study result, EU Method A.3)
Solubility(ies)	In water: 93.4g/l @20°C (study result, EU Method A.6)
Partition coefficient: n-octanol/water	Not applicable
Auto-ignition temperature	Not flammable
Decomposition temperature	Decomposes above (°C): 50
Viscosity	Not relevant (solid)
Explosive properties	Not explosive
Oxidising properties	Not oxidising

9.2	**Other information**	Average Median Particle Size 65 microns

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SECTION 10: STABILITY AND REACTIVITY

10.1	**Reactivity**	Decomposes slowly on exposure to water. Reacts with acids, evolving carbon dioxide
10.2	**Chemical stability**	Stable under normal conditions.
10.3	**Possibility of hazardous reactions**	None anticipated.
10.4	**Conditions to avoid**	Avoid contact with acids. Exposure to moisture. Heat
10.5	**Incompatible materials**	Keep away from: Acids
10.6	**Hazardous decomposition products**	Evolves CO_2 on heating

SECTION 11: TOXICOLOGICAL INFORMATION

11.1	**Information on toxicological effects**	
	Acute Toxicity - Ingestion	Based upon the available data, the classification criteria are not met.
	Acute Toxicity - Inhalation	Based upon the available data, the classification criteria are not met.
	Acute Toxicity - Skin contact	Based upon the available data, the classification criteria are not met.
	Skin corrosion/irritation	Based upon the available data, the classification criteria are not met.
	Serious eye damage/irritation	Based upon the available data, the classification criteria are not met.
	Respiratory or skin sensitisation	Based upon the available data, the classification criteria are not met.
	Germ cell mutagenicity	Based upon the available data, the classification criteria are not met.
	Carcinogenicity	Based upon the available data, the classification criteria are not met.
	Reproductive toxicity	Based upon the available data, the classification criteria are not met.
	STOT - single exposure	Based upon the available data, the classification criteria are not met.
	STOT - repeated exposure	Based upon the available data, the classification criteria are not met.
	Aspiration hazard	Based upon the available data, the classification criteria are not met.
11.2	**Other information**	None known.

SECTION 12: ECOLOGICAL INFORMATION

12.1	**Toxicity**	Based upon the available data, the classification criteria are not met. Estimated LC50 (Substance): >100 mg/l.
12.2	**Persistence and degradability**	Not applicable for inorganic substances.
12.3	**Bioaccumulative potential**	Not applicable for inorganic substances. Bioaccumulation will not occur
12.4	**Mobility in soil**	Not applicable for inorganic substances. The substance has high mobility in soil.
12.5	**Results of PBT and vPvB assessment**	According to Annex XIII of the REACH Regulation 1907/2006/EC inorganic substances do not need to be subjected to a PBT assessment.
12.6	**Other adverse effects**	None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1	**Waste treatment methods**	Dispose of contents in accordance with local, state or national legislation. Do not allow to enter drains, sewers or watercourses. Recycle packaging.
13.2	**Additional information**	Avoid release to the environment. Dispose of empty containers and wastes safely.

SECTION 14: TRANSPORT INFORMATION

Not classified according to the United Nations 'Recommendations on the Transport of Dangerous Goods'.

		ADR/RID	**IMDG**	**IATA/ICAO**
14.1	**UN number**	None assigned.	None assigned.	None assigned.
14.2	**UN proper shipping name**	None assigned.	None assigned.	None assigned.
14.3	**Transport hazard class(es)**	None assigned.	None assigned.	None assigned.
14.4	**Packing group**	None assigned.	None assigned.	None assigned.
14.5	**Environmental hazards**	Not classified	Not classified as a Marine Pollutant.	Not classified

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14.6	**Special precautions for user**	See Section: 2
14.7	**Transport in bulk according to Annex II of Marpol and the IBC Code**	No information available. No information available. No information available.

SECTION 15: REGULATORY INFORMATION

15.1	**Safety, health and environmental regulations/legislation specific for the substance or mixture**	
15.1.1	**EU regulations**	
	Authorisations and/or restrictions on use	Not restricted
15.1.2	**National regulations**	
	Germany	Water hazard class (WGK): 1
	TSCA Inventory	Listed
15.2	**Chemical Safety Assessment**	A REACH chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: Updated substance / mixture classification. Updated version and date. New format has been issued, all sections have been updated to include new information. Review SDS with care.

References:
Existing Safety Data Sheet (SDS), Chemical Safety Report,
Existing ECHA registration for Sodium hydrogencarbonate (CAS No. 144-55-8).

EU Classification: This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830.

Legend

ADR	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DNEL	Derived no effect level
EU	European Union
IATA	IATA: International Air Transport Association
ICAO	ICAO: International Civil Aviation Organization
IMDG	IMDG: International Maritime Dangerous Goods
LC50	Lethal concentration at which 50% of the population is killed
LD50	Lethal dose at which 50% of the population is killed
LTEL	Long term exposure limit
PBT	PBT: Persistent, Bioaccumulative and Toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	RID: Regulations concerning the international railway transport of dangerous goods
STEL	Short term exposure limit
vPvB	vPvB: very Persistent and very Bioaccumulative
WGK	Wassergefährdungsklasse (Germany) / Water hazard class

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

Disclaimers
The information given on this material health and safety sheet is not a warranty as to the performance or suitability of the product. The information must be regarded only as a description of the health, safety and environmental requirements for that product. The information contained herein is true and accurate to the best of our knowledge and belief, but does not claim to be all inclusive.
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Annex to the extended Safety Data Sheet (eSDS)

Exposure Scenarios are not applicable

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