



Flow K™ Potassium Bicarbonate - (EU GHS - EN)

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Revision Date: 02/05/2022

Date of issue: 29/12/2020

Version: 1.1

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

1.1. Product identifier

Product form : Mixture
Product Name : Flow K™ Potassium Bicarbonate - (EU GHS - EN)
Product code : 40500257
Formula : KHCO_3
Synonyms : Potassium bicarbonate

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 : Food use, buffering agent, pH adjuster

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Company

Church & Dwight
500 Charles Ewing Blvd
Ewing Township, NJ 08628
T 1-800-221-0453
<http://www.ahperformance.com>
consumer.relationsUK@churchdwight.com

1.4. Emergency telephone number

Emergency number : For Medical Emergency: 1-888-234-1828 (USA and Canada), 952-853-1925 (Outside USA and Canada)
For Chemical Emergency: ChemTel LLC (800)255- 3924 (North America) +1 (813)248-0585 (International)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

2.2. Label elements

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

EUH-statements : EUH210 - Safety data sheet available on request.

2.3. Other hazards

Other hazards not contributing to the classification : Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification According to Regulation (EC) No. 1272/2008 [CLP]
Monopotassium carbonate	(CAS-No.) 298-14-6 (EC-No.) 206-059-0;209-529-3	96,89 – 99,375	Not classified
Carbonic acid, dipotassium salt	(CAS-No.) 584-08-7 (EC-No.) 209-529-3	< 2,48	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

Flow K™ Potassium Bicarbonate

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Name	Product identifier	%	Classification According to Regulation (EC) No. 1272/2008 [CLP]
Magnesium oxide (MgO)	(CAS-No.) 1309-48-4 (EC-No.) 215-171-9	0.1 - 1	Not classified

Full text of H-statements: see section 16

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	: Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.
First-aid measures after skin contact	: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.
First-aid measures after eye contact	: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Obtain medical attention.

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

Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after inhalation	: Prolonged exposure may cause irritation.
Symptoms/effects after skin contact	: Prolonged exposure may cause skin irritation.
Symptoms/effects after eye contact	: May cause slight irritation to eyes.
Symptoms/effects after ingestion	: Large doses may produce systemic alkalosis and expansion in extracellular fluid volume with edema.
Chronic symptoms	: None expected under normal conditions of use.

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

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Water spray, dry chemical, foam, carbon dioxide.
Unsuitable extinguishing media	: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Not flammable.
Explosion hazard	: Product is not explosive.
Reactivity	: Hazardous reactions will not occur under normal conditions.
Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO ₂). Potassium oxides.

5.3. Advice for firefighters

Precautionary measures fire	: Exercise caution when fighting any chemical fire.
Firefighting instructions	: Use water spray or fog for cooling exposed containers.
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

General measures	: Avoid prolonged contact with eyes, skin and clothing. Avoid breathing dust.
------------------	---

6.1.1. For non-emergency personnel

Protective equipment	: Use appropriate personal protective equipment (PPE).
Emergency procedures	: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

6.2. Environmental precautions

Prevent entry to sewers and public waters.

Flow K™ Potassium Bicarbonate

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

6.3. Methods and material for containment and cleaning up

- For containment : Contain solid spills with appropriate barriers and prevent migration and entry into sewers or streams.
- Methods for cleaning up : Clean up spills immediately and dispose of waste safely. Recover the product by vacuuming, shoveling or sweeping. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to other sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

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. Avoid prolonged contact with eyes, skin and clothing. Avoid breathing dust.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Comply with applicable regulations.
- Storage conditions : Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.
- Incompatible materials : Strong acids, strong bases, strong oxidizers.

7.3. Specific end use(s)

Food use, buffering agent, pH adjuster

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Magnesium oxide (MgO) (1309-48-4)		
Austria	MAK Daily average value (mg/m ³)	5 mg/m ³ (respirable fraction, smoke) 10 mg/m ³ (inhalable fraction)
Austria	MAK Short time value [mg/m ³]	20 mg/m ³ (respirable fraction, smoke) 20 mg/m ³ (inhalable fraction) 10 mg/m ³ (respirable fraction)
Belgium	Limit value [mg/m ³]	10 mg/m ³ (fume)
Bulgaria	OEL TWA (mg/m ³)	10 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	4 mg/m ³ (fume; respirable dust) 10 mg/m ³ (fume; total dust, inhalable particles)
France	VME [mg/m ³]	10 mg/m ³ (fume)
Germany	Occupational exposure limit value (mg/m ³)	1,25 mg/m ³ (except magnesium oxide smoke-respirable fraction (dust)) 10 mg/m ³ (except magnesium oxide smoke-inhalable fraction (dust))
Greece	OEL TWA (mg/m ³)	10 mg/m ³ (inhalable fraction) 5 mg/m ³ (respirable fraction)
USA ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³ (inhalable particulate matter)
Spain	VLA-ED (mg/m ³)	10 mg/m ³ (dust and fume)
Switzerland	MAK (mg/m ³)	3 mg/m ³ (fume, respirable dust)
United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³ (inhalable dust) 4 mg/m ³ (fume and respirable dust)
United Kingdom	WEL STEL (mg/m ³)	30 mg/m ³ (calculated-inhalable dust) 12 mg/m ³ (calculated-fume and respirable dust)
Czech Republic	Expoziční limity (PEL) (mg/m ³)	5 mg/m ³ (fume)
Denmark	Grænseværdi (8 timer) (mg/m ³)	6 mg/m ³
Hungary	AK-érték	6 mg/m ³ (respirable dust)

Flow K™ Potassium Bicarbonate

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Magnesium oxide (MgO) (1309-48-4)		
Ireland	OEL (8 hours ref) (mg/m ³)	4 mg/m ³ (respirable dust) 5 mg/m ³ (fume) 10 mg/m ³ (total inhalable dust)
Ireland	OEL (15 min ref) (mg/m ³)	10 mg/m ³ (fume) 12 mg/m ³ (calculated-respirable dust) 30 mg/m ³ (calculated-total inhalable dust)
Lithuania	IPRV (mg/m ³)	4 mg/m ³
Norway	Grenseverdier (AN) (mg/m ³)	10 mg/m ³ (equal to the limit value for Nuisance dust)
Norway	Grenseverdier (Korttidsverdi) (mg/m ³)	20 mg/m ³ (equal to the limit value for Nuisance dust)
Poland	NDS (mg/m ³)	10 mg/m ³ (inhalable fraction)
Romania	OEL TWA (mg/m ³)	5 mg/m ³ (fume)
Romania	OEL STEL (mg/m ³)	15 mg/m ³ (fume)
Slovakia	NPHV (priemerná) (mg/m ³)	10 mg/m ³ (respirable fraction, dust) 4 mg/m ³ (inhalable fraction, fume)
Portugal	OEL TWA (mg/m ³)	10 mg/m ³ (inhalable fraction)
Portugal	OEL chemical category (PT)	A4 - Not Classifiable as a Human Carcinogen
Carbonic acid, dipotassium salt (584-08-7)		
Latvia	OEL TWA (mg/m ³)	2 mg/m ³
Czech Republic	Expoziční limity (PEL) (mg/m ³)	5 mg/m ³
Lithuania	IPRV (mg/m ³)	2 mg/m ³
Monopotassium carbonate (298-14-6)		
Czech Republic	Expoziční limity (PEL) (mg/m ³)	5 mg/m ³

8.2. Exposure controls

Appropriate engineering controls

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal protective equipment

: Gloves. Protective clothing. Protective goggles.



Materials for protective clothing

: Chemically resistant materials and fabrics.

Hand protection

: Wear protective gloves.

Eye protection

: Chemical safety goggles.

Skin and body protection

: Wear suitable protective clothing.

Respiratory protection

: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Other information

: When using, do not eat, drink or smoke.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

: Solid

Colour

: White crystalline powder

Odour

: None

Odour threshold

: No data available

pH

: 8,2

Evaporation rate

: No data available

Melting point

: 100 – 120 °C (212 – 248 °F)

Flow K™ Potassium Bicarbonate

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Freezing point	: No data available
Boiling point	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Density	: 62 lb/ft3 +/- 2
Solubility	: Water: 22 % @ 20 °C (68 °F)
Partition coefficient: n-octanol/water	: No data available
Viscosity	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Hazardous reactions will not occur under normal conditions.

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Direct sunlight, extremely high or low temperatures, and incompatible materials.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizers.

10.6. Hazardous decomposition products

None known. At high temperature may liberate toxic gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

Magnesium oxide (MgO) (1309-48-4)

LD50 oral rat	3870 mg/kg
---------------	------------

Carbonic acid, dipotassium salt (584-08-7)

LD50 oral rat	1983 mg/kg bodyweight
LD50 oral	1870 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

Monopotassium carbonate (298-14-6)

LD50 oral rat	> 2000 mg/kg bodyweight
LD50 dermal rabbit	> 2000 mg/kg bodyweight

Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: 8,2
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: 8,2
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)

Flow K™ Potassium Bicarbonate

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
Symptoms/Injuries After Inhalation	: Prolonged exposure may cause irritation.
Symptoms/Injuries After Skin Contact	: Prolonged exposure may cause skin irritation.
Symptoms/Injuries After Eye Contact	: May cause slight irritation to eyes.
Symptoms/Injuries After Ingestion	: Large doses may produce systemic alkalosis and expansion in extracellular fluid volume with edema.
Chronic Symptoms	: None expected under normal conditions of use.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Not classified.

Carbonic acid, dipotassium salt (584-08-7)

EC50 Daphnia 1	630 mg/l
----------------	----------

12.2. Persistence and degradability

Flow K™ Potassium Bicarbonate

Persistence and degradability	Not established.
-------------------------------	------------------

12.3. Bioaccumulative potential

Flow K™ Potassium Bicarbonate

Bioaccumulative potential	Not established.
---------------------------	------------------

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal : Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued. In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not regulated for transport				
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

Flow K™ Potassium Bicarbonate

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

ADR	IMDG	IATA	ADN	RID
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No

14.6. Special precautions for user

No additional information available

14.7. Transport in bulk according to Annex II of MARPOL 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

Magnesium oxide (MgO) (1309-48-4)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Carbonic acid, dipotassium salt (584-08-7)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Monopotassium carbonate (298-14-6)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical 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

Date of Preparation or Latest Revision : 02/05/2022

Data sources : According to Regulation (EC) No. 1907/2006 (REACH) with its amendment
Regulation (EU) 2015/830

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
EUH210	Safety data sheet available on request.

Indication of Changes

Section Change

1 Modified product name and emergency telephone number

Date Changed

02/05/2022

Version

1.1

Church&Dwight EU GHS SDS

This Product Safety Data Sheet is offered solely for your information, consideration and investigation. Church & Dwight Co., Inc. provides no warranties; either expressed or implied, and assumes no responsibility for the accuracy or completeness of data contained herein. Church & Dwight Co., Inc. urges persons receiving this information to make their own determination as to the information suitability for their particular application.