Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

HEBEI GUANGXIANG PHARMACEUTICAL CO., LTD.

Caffeine anhydrous

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

1.1 Product identifier

Trade name

Caffeine anhydrous

Registration number (REACH)

A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration dead-

line.

EC number

200-362-1

Index number in CLP Annex VI

613-086-00-5

CAS number

58-08-2

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

Relevant identified uses

Chemicals for various applications

1.3 Details of the supplier of the safety data sheet

Hebei Guangxiang Pharmaceutical Co., Ltd.

The East of Jingliu Road, West of Cangzhou Lingang Economic and Technological Development Zone,

Cangzhou City, Hebei Province, China.

Telephone: +86 311 67167152
Telefax: +86 311 67167152
E-mail: majw@sjzsiyao.com
Website: https://ssypc.com/

1.4 Emergency telephone number

Emergency information service

+86 311 67167152

Poison centre

Name	Postal code/city	Telephone	Telefax
Jovi Ma	061100/Cangzhou	+86 311 67167152	+86 311 67167152

As above or next toxicological information centre.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Classification acc. to GHS

Section	Hazard class	Category	Hazard class and category	Hazard state- ment
3.10	acute toxicity (oral)	4	Acute Tox. 4	H302

for full text of abbreviations: see SECTION 16

Additional information

According to the results of its assessment, this substance is not a PBT or a vPvB.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Signal word warning

Pictograms

GHS07



Hazard statements

H302 Harmful if swallowed.

Precautionary statements

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P301+P312 IF SWALLOWED: call a POISON CENTER/doctor if you feel unwell.

P330 Rinse mouth.

P501 Dispose of contents/container in accordance with local/regional/national/interna-

tional regulations.

2.3 Other hazards

There is no additional information.

Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

Name of substance caffeine

Identifiers

CAS No 58-08-2

EC No 200-362-1

Index No 613-086-00-5

Molecular formula C8H10N4O2

Molar mass 194.2 9/mol

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Take off immediately all contaminated clothing.

Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

In all cases of doubt, or when symptoms persist, seek medical advice.

Following inhalation

Provide fresh air.

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions.

Following skin contact

Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

Following eye contact

Rinse cautiously with water for several minutes.

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

Following ingestion

Rinse mouth immediately and drink plenty of water.

Induce vomiting when the affected person is not unconscious.

Get medical advice/attention if you feel unwell.

Notes for the doctor

none

4.2 Most important symptoms and effects, both acute and delayed

These information are not available.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

water, foam, alcohol resistant foam, fire extinguishing powder

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products: Section 10.

Deposited combustible dust has considerable explosion potential.

Hazardous combustion products

nitrogen oxides (NOx), carbon monoxide (CO), carbon dioxide (CO2)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.

Co-ordinate firefighting measures to the fire surroundings.

Do not allow firefighting water to enter drains or water courses.

Collect contaminated firefighting water separately.

Fight fire with normal precautions from a reasonable distance.

Special protective equipment for firefighters

wear self-contained breathing apparatus

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

Ventilate affected area.

Do not breathe dust.

Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water.

Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advices on how to contain a spill

take up mechanically

Advices on how to clean up a spill

Take up mechanically.

Collect spillage.

Other information relating to spills and releases

Place in appropriate containers for disposal.

Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5.

Personal protective equipment: see section 8.

Incompatible materials: see section 10.

Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation.

Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharge.

Use explosion-proof electrical/ventilating/lighting equipment.

Use only non-sparking tools.

Do not breathe dust.

Avoid contact with skin and eyes.

Specific notes/details

Dust deposits may accumulate on all deposition surfaces in a technical room.

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

Measures to protect the environment

Avoid release to the environment.

Advice on general occupational hygiene

Do not eat, drink and smoke in work areas.

Wash hands after use.

Preventive skin protection (barrier creams/ointments) is recommended.

Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities

Explosive atmospheres

Removal of dust deposits.

Flammability hazards

None.

Incompatible substances or mixtures

Incompatible materials: see section 10.

Protect against external exposure, such as

heat

Consideration of other advice

Keep away from food, drink and animal feedingstuffs.

Ventilation requirements

Provision of sufficient ventilation.

Packaging compatibilities

Keep only in original container.

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)					
Country	Name of agent	Notation	Identifier	TWA [mg/m³]	Source
GB	dust	i	WEL	10	EH40/2005
GB	dust	r	WEL	4	EH40/2005

Notation

i inhalable fractionr respirable fraction

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of

8 hours time-weighted average

Human health values

elevant DNELs and other threshold levels				
Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
DNEL	44.37 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
DNEL	25.17 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

Environmental values

_			100 at 100
Polovant	DNIFCe and	other thresho	Id lovole
Keievani	FIVEC3 allu	Other tillesilo	iu ieveis

ndpoint	Threshold level	Environmental compartment	Exposure time
PNEC	0.087 mg/l	freshwater	short-term (single instance)
PNEC	0.009 mg/l	marine water	short-term (single instance)
PNEC	0.87 mg/l	water	intermittent release
PNEC	10 mg/l	sewage treatment plant (STP)	short-term (single instance)
PNEC	0.4 mg/kg	freshwater sediment	short-term (single instance)
PNEC	0.029 mg/kg	soil	short-term (single instance)

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Hand protection

Material	Material thickness	Breakthrough times of the glove material
NBR: acrylonitrile-butadiene rubber	≥ 0,11 mm	>480 minutes (permeation: level 6)

Wear suitable gloves.

Chemical protection gloves are suitable, which are tested according to EN 374.

Check leak-tightness/impermeability prior to use.

In the case of wanting to use the gloves again, clean them before taking off and air them well.

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.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Particulate filter device (EN 143).

Environmental exposure controls

Use appropriate container to avoid environmental contamination.

Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state solid

Form solid matter

Colour colourless

Odour odourless

Odour threshold these information are not available

Other safety parameters

pH (value) 5.5 - 6.5 (10 ^g/_l, 20 °C)

Melting point/freezing point 234 - 239 °C

Initial boiling point and boiling range these information are not available

Flash point not applicable

Evaporation rate these information are not available

Flammability (solid, gas) this material is combustible, but will not ignite

readily

Explosion limits of dust clouds not determined

Vapour pressure these information are not available

Density these information are not available

Vapour density these information are not available

Relative density these information are not available

Solubility(ies)

Water solubility 18.7 ^g/_l at 16 °C

Partition coefficient

n-octanol/water (log KOW) -0.07 (20 °C)

Soil organic carbon/water (log KOC) 1

Auto-ignition temperature not relevant

(Solid matter)

Relative self-ignition temperature for solids 540 - 600 °C

Decomposition temperature these information are not available

Viscosity

Kinematic viscosity not relevant

(solid matter)

Dynamic viscosity not relevant

(solid matter)

Explosive properties not explosive

Oxidising properties shall not be classified as oxidising

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

This material is not reactive under normal ambient conditions.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

10.5 Incompatible materials

oxidisers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known.

Hazardous combustion products: see section 5.

Page: 9 / 15

SECTION 11: Toxicological information

11.1 Information on toxicological effects

If not otherwise specified the classification is based on:

Animal studies; Evidence from any other toxicity tests; Expert judgement (weight of evidence determination).

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Harmful if swallowed.

Acute toxicity

xposure route	Endpoint	Value	Species	Method	Source
oral	LD50	367.7 ^{mg} / _{kg}	rat		ECHA
inhalation: dust/mist	LC50	4.94 ^{mg} / _l /4h	rat	OECD Guideline 403	ECHA
dermal	LD50	>2,000 ^{mg} / _{kg}	rat		ECHA

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Skin sensitisation

Shall not be classified as a skin sensitiser.

Respiratory sensitisation

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Germ cell mutagenicity

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Specific target organ toxicity - single exposure

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Specific target organ toxicity - repeated exposure

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity (acute)

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

Aquatic toxicity (acute)						
Endpoint	Value	Species	Method	Source	Exposure time	
LC50	87 ^{mg} / _l	orfe (Leuciscus idus)		ECHA	96 h	
EC50	182 ^{mg} / _l	daphnia magna		ECHA	48 h	
ErC50	>100 mg/ _i	algae (Desmod- esmus subspicatus)	OECD Guideline 201	ECHA	72 h	

Aquatic toxicity (chronic)

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

Aquatic toxicity (chronic)				
Endpoint	Value	Species	Source	Exposure time
EC50	3,490 ^{mg} / _l	microorganisms	ECHA	17 h
growth (EbCx) 10%	1,530 ^{mg} / _l	microorganisms	ECHA	17 h

12.2 Persistence and degradability

ess of degradabil	ity		
Process	Degradation rate	Time	Source
DOC removal	>90 - 100 %	22 d	ECHA

Page: 11 / 15

Biodegradation

The substance is readily biodegradable.

Persistence

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

n-octanol/water (log KOW)

-0.07 (20 °C)

12.4 Mobility in soil

Data are not available.

Henry's law constant

0 Pa m³/mol at 25 °C

(ECHA)

The Organic Carbon normalised adsorption

coefficient

(ECHA)

1

12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

12.6 Other adverse effects

Data are not available.

Endocrine disrupting potential

Not listed.

Remarks

Water hazard class - WHC (Wassergefährdungsklasse): 1 (Slightly hazardous to water)

SECTION 13: Disposal considerations

13.1 Waste treatment methods

This material and its container must be disposed of as hazardous waste.

Sewage disposal-relevant information

Do not empty into drains.

Waste treatment of containers/packagings

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

Remarks

Please consider the relevant national or regional provisions.

Page: 12 / 15

SECTION 14: Transport information

14.1 UN number not subject to transport regulations

14.2 UN proper shipping name

14.3 Transport hazard class(es)

Class -

14.4 Packing group

14.5 Environmental hazards -

14.6 Special precautions for user

There is no additional information.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

The cargo is not intended to be carried in bulk.

14.8 Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

Not subject to ADR, RID and ADN.

International Maritime Dangerous Goods Code (IMDG)

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR)

Not subject to ICAO-IATA.

SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

not listed

List of substances subject to authorisation (REACH, Annex XIV)

not listed

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II

not listed

Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

not listed

Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD)

not listed

Regulation 98/2013/EU on the marketing and use of explosives precursors

not listed

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Indication of changes: Section 12

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations	
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de nav- igation intérieures (European Agreement concerning the International Carriage of Dangerous Good by Inland Waterways)	
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)	
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical sub- stances)	
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures	
DGR	Dangerous Goods Regulations (see IATA/DGR)	
DNEL	Derived No-Effect Level	
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number identifier of substances commercially available within the EU (European Union)	
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/)	
EINECS	European Inventory of Existing Commercial Chemical Substances	
ELINCS	European List of Notified Chemical Substances	
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations	
IATA	International Air Transport Association	
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)	
ICAO	International Civil Aviation Organization	
IMDG	International Maritime Dangerous Goods Code	
index No		
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")	

Page: 14 / 15

Abbr.	Descriptions of used abbreviations		
NLP	No-Longer Polymer		
PBT	Persistent, Bioaccumulative and Toxic		
PNEC	Predicted No-Effect Concentration		
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals		
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regi tions concerning the International carriage of Dangerous goods by Rail)		
TWA	time-weighted average		
vPvB	very Persistent and very Bioaccumulative		
WEL	workplace exposure limit		

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN).

International Maritime Dangerous Goods Code (IMDG).

Dangerous Goods Regulations (DGR) for the air transport (IATA).

List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text	
H302	harmful if swallowed	

Responsible for the safety data sheet

Hebei Guangxiang Pharmaceutical Co., Ltd.

The East of Jingliu Road, West of Cangzhou Lingang Economic and Technological Development Zone,

Cangzhou City, Hebei Province, China.

Telephone: +86 311 67167152

Telefax: +86 311 67167152

e-mail: majw@sjzsiyao.com

Website: https://ssypc.com/

Disclaimer

This information is based upon the present state of our knowledge.

This SDS has been compiled and is solely intended for this product.

勒收片

Date and Place: Jan 10th, 2021.

Shijiazhuang, Hebei Province, China.