

SDS (Safety Data Sheet)

物料安全数据表

Caffeine

咖啡因

Date: Jan. 8, 2017

1 - IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/

UNDERTAKING 物质/制剂和制造公司的确认

Identification of the substance:

物质的识别

Name: Caffeine

名称: 咖啡因

Product code: not available

产品代码: 无

Company/undertaking identification:

公司确认

Registered company name: Shandong Xinhua Pharmaceutical Co., Ltd.

公司注册名称: 山东新华制药股份有限公司

Manufacturing address: East Chemical Zone of Zibo High & New Technology Development Zone, Zibo,
Shandong, P.R.China

生产地址: 中国山东省淄博市高新技术产业开发区东部化工区

Correspondence address: No.1, Lutai Road, High-tech District, Zibo, Shandong, P.R.China, 255086

通讯地址: 中国山东省淄博市高新区鲁泰大道1号

Provided By:
Suzhou-Chem, Inc.
info@suzhouchem.com
781-433-8618

Association/Organisation: not available

协会/联盟: 无

Use of the substance: food additives; API for central nervous system stimulants.

物质用途: 食品添加剂; 药用活性成分用作中枢神经系统兴奋剂

2 - HAZARDS IDENTIFICATION

危害识别

Classification of the substance/preparation:

物质/混合物的分类

Classification according to regulation (EC) No 1272/2008:

根据法规 (EC) 的分类号 1272/2008:

Hazard class and category code(s): Acute Tox. 4 Harmful if swallowed.

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危险级别和分类码：记性中毒.4 吞食有毒。

Classification according to Directive 67/548/EEC: Not applicable.

根据 67/548/EEC 指令的分类：不适用

3 - COMPOSITION/INFORMATION ON INGREDIENTS物料信息

Index No.	Substance name	CAS No.	EC No.	Classification
索引号	物质名称	化学文摘登记号	欧洲现有商业化 学品目录编号	分类
613-086-00-5	Caffeine 咖啡因	58-08-2	200-362-1	AcuteTox.4* H302 Xn, R22 急性中毒

4 - FIRST AID MEASURES 急救措施

- General information: Personal protection for the First Aider. Immediately remove any clothing soiled by the product. Remove breathing equipment only after contaminated clothing have been completely removed. In case of irregular breathing or respiratory arrest provide artificial respiration.

一般信息：急救人员注意个人防护。迅速脱去任何被产品污染的衣服。被污染衣物被彻底去除后再穿戴呼吸设备。如果呼吸不畅或者呼吸停止提供人工呼吸救助。

- Inhalation: Assure fresh air breathing. Rest. If you feel unwell, seek medical advice.

-吸入：确保呼吸新鲜空气。休息。感觉不适，就医。

- Eye contact: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking, tears or redness persist.

-眼睛接触：立即用大量水冲洗。如果有疼痛、刺痛、流泪、红肿，应就医治疗。

- Skin contact: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

-皮肤接触：除去污染的衣物并用温的肥皂水清洗，再用温水冲洗。

- Ingestion: Rinse mouth. If swallowed, seek medical advice immediately and show this container or label.

- 食入：漱口。如已吞咽，立即就医并出示该容器或标签。

In case of reactions described in hazards identification or other severe, immediate or persisting symptoms seek medical advice and call the nearest poison centre. Show the label and this safety data sheet.

万一出现直接或间接地中毒反应，寻求医务指导并且拨打最新的中毒急救中心电话。出示标签和这份安全数据表

5 - FIRE-FIGHTING MEASURES 灭火措施

Extinguishing media 灭火剂

- Suitable extinguishing media: Water spray. Carbon dioxide. Dry powder.

-相用的灭火剂：喷雾水，二氧化碳，干粉。

- Unsuitable extinguishing media: Do not use a heavy water stream.

-不适合的灭火物质：不要用水流。

Surrounding fires: Use water spray or fog for cooling exposed containers.

环境防火：用雾状水对容器进行降温。

Protection against fire: Do not enter fire area without proper protective equipment, including respiratory protection.

防火措施：没有合适的保护装置不要进入火场，包括呼吸器。

Hazardous combustion products: Incomplete combustion will generate poisonous carbon monoxide, carbon dioxide and other toxic gases.

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有害的燃烧物质：不完全的燃烧会产生一氧化碳、二氧化碳、氮氧化物等有毒气体。Fire fighting Procedures: As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing equipment and protective clothing.

消防程序：着火时撤离个人到安全区域。消防员应佩戴氧气呼吸器和防护衣服。

6 - ACCIDENTAL RELEASE MEASURES 意外扩散措施

General precautions: Remove ignition sources. Evacuate area.

常规措施：切断泄露源，疏散至安全区域。

Personal precautions: Spill should be handled by trained cleaning personnel properly equipped with respiratory protection, chemically compatible gloves and eye protection.

人员防范：应有经过训练的人员，配备呼吸器和防护眼镜进行处理泄露。

Environmental precautions: Do not allow product to reach sewage system or any water source. Dispose of waste recovered in accordance with applicable regulations (see item 13). If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures.

环境防范：不允许物质进入下水道或水源地。应根据试用的法规（见标题 13）对回收的废弃物进行处理。如果该物质污染了水源或排水沟，请按照法定的程序向有关当局报告。

Methods for cleaning up: Clean spills promptly. To clean the floor and all objects contaminated by this material, use: sodium hypochlorite solution. Ensure adequate ventilation.

清理方法：迅速的清理泄露物质。清理地面和所有被该物质污染的物体。使用次氯酸钠，确保通风

7 - HANDLING AND STORAGE 处理和存储

Personal protection: Avoid all unnecessary exposure. Ensure prompt removal from eyes, skin and clothing.

人员防护：避免所有不必要的暴露。确保能够及时从眼睛、皮肤、衣服上除去。

Handling: As a general rule, when handling Caffeine avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Wash thoroughly after handling.

处理：一般地，当处理咖啡因时避免任何接触和吸入与此物质相关的粉末状，雾状和蒸汽。接触后彻底清洗。

Fire prevention: Keep away from open flame, sources of ignition and sparks.

防火措施：远离明火，火源和火花

Storage: Preserve in well-closed containers.

存贮：保存在密闭良好的容器中。

Storage - away from: All heat sources, including direct sunlight. Open flame. Sources of ignition. Sparks.

Incompatible materials, see item 10.

存储避免：所有热源，包括太阳光直射。明火。火源。火花。不适合的物质，见条款 10。

8 - EXPOSURE CONTROLS/PERSONAL PROTECTION 暴露控制/人员保护

- Exposure limit: Industry: 200 micrograms/m³

暴露限值：工作场所：200微克/m³

- Personal protection equipment:

员工保护设施：



General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals. Do not eat, drink, smoke or sniff while working. Do not inhale dust / smoke / mist. Avoid contact with the eyes and skin. Keep away from foodstuffs, beverages and feed.

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常规防护和卫生措施：处理化学物质时的常用防护措施。工作室应禁止吃、和、吸烟等。勿吸入尘、烟、雾。避免眼睛和皮肤的接触。避免接触食物和饮料。

- Respiratory protection: Wear approved mask. (P3)

In case of insufficient ventilation, wear suitable respiratory equipment.

-呼吸防护：戴经批准的面具（P3）

通风不足时，须佩戴合适的呼吸设备。

- Hand protection: Wear suitable gloves resistant to chemical penetration.

-手的防护：佩戴合适的手套防止化学物质渗入。

- Skin protection: Wear suitable protective clothing.

-皮肤防护：穿戴合适的防护服。

-Eye protection: Chemical goggles or safety glasses.

-眼睛防护：化学防护眼镜

- Body protection: Protective work clothing.

- 身体防护：防护工作服

For further information, see item 11 Toxicological information.

更多的信息参见 11 条毒性信息

9 - PHYSICAL AND CHEMICAL PROPERTIES

物理和化学性质

Chemical formula: $C_8H_{10}N_4O_2$

分子式: $C_8H_{10}N_4O_2$

Molecular weight: 194.2

分子量: 194.2

Appearance and Odor: White crystalline powder; odorless.

外观和气味：白色结晶粉末，无味

pH: No data available

pH: 没有有效数据

Melting Range: 234 - 239°C

熔距: 234 - 239°C

Boiling Point: 178°C (sublimes)

沸点: 178°C (升华温度)

Flash Point: No data available

闪点: 无数据

Auto-ignition temperature: 540-600°C

自燃温度: 540-600°C

Vapor Pressure: 15 mmHg at 89°C

饱和蒸汽压力: 89°C 时 15 mmHg

Specific Gravity: 1.23

比重: 1.23

Solubility: sparingly soluble in water, freely soluble in boiling water, slightly soluble in ethanol (96 per cent). It

dissolves in concentrated solutions of alkali benzoates or salicylates.

溶解度：微溶于水，易溶于热水，微溶于96%的乙醇，溶于苯甲酸盐和水杨酸盐的碱性溶液中。

10 - STABILITY AND REACTIVITY

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稳定性和反应活性

Stability and reactivity: Stable under normal conditions.

稳定性和反应活性: 常规条件下稳定。

Materials to avoid: Strong oxidizers, iodine silver salts, tannins, strong caustic alkali solutions.

避免接触的物质: 强氧化剂, 银离子, 单宁酸, 强碱性溶液。

Hazardous decomposition products: Carbon monoxide. Carbon dioxide. Nitrogen oxides. When heated to decomposition, emits dangerous fumes.

分解后危险产物: 一氧化碳。二氧化碳。氮氧化合物。加热分解产生有毒烟雾

Hazardous reactions: None under normal conditions.

反应有害物: 在常规条件下没有。

Hazardous polymerization: Will not occur.

聚合危害物: 不发生

11 - TOXICOLOGICAL INFORMATION

毒理学性质

RTECS No.: EV6475000 (See actual entry in RTECS for complete information.)

化学物质毒性数据库 编号: XH 385000 (请参考化学物质毒性数据库中的条款)

Rat oral LD50 [mg/kg]: 328

鼠经口 LD50 [mg/kg]: 328

Oral Mouse LD50 [mg/kg]: No data available.

鼠经口 LD50 [mg/kg]: 无数据

Other Toxicity Data: Oral Dog LD50[mg/kg]: No data available.

其他毒性数据: 狗经口 LD50 [mg/kg]:无数据可用

Rabbit dermal LD50 [mg/kg]: No data available.

兔经皮 LD50 [mg/kg]:无数据

Rat inhalation LC50 [mg/L/4h]: No data available.

鼠吸入 LC50: 无数据

Acute toxicity: Nervous system disorders. Affects nervous system. Nervousness. Restlessness. Psychiatric disorders. May produce irregular heart beat and nervous symptoms. Reduced blood pressure. Gastrointestinal disorders. Weakness. Headache. Blurred vision.

急性中毒: 扰乱神经系统; 影响神经系统; 神经过敏; 焦虑; 精神紊乱; 可能引起心脏不规则跳动和神经过敏; 减少血压; 体弱; 头痛; 视力模糊。

Chronic toxicity: No data available.

慢性中毒: 没有数据。

Sensitization: No data available.

过敏反应: 没有数据。

12 - ECOLOGICAL INFORMATION

生态学信息

Ecological effects information: May be toxic to aquatic life.

生态学影响信息

LC50-96 Hour - fish [mg/L]: No data available.

LC50-96 小时-鱼[mg/L]: 无数据

EC50-48 Hour-Daphnia magna [mg/L]: No data available.

EC50-48 小时-水蚤 [mg/L]:无数据

IC50-72 Hour-Algae [mg/L]: No data available.

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IC50-72 小时-藻类[mg/L]: 无数据

Biodegradation [%]: Biodegradable.

生物降解作用: 无数据

Persistence - degradability: No data available.

残留降解性: 无数据

Log P octanol / water at 20°C: No data available.

辛醇/水分配系数的对数值 (20°C): 无数据

Bioaccumulative potential: Weak.

潜在的生物累积性: 弱

13 - DISPOSAL CONSIDERATIONS

处理注意事项

General: Dispose of this material and its container at hazardous or special waste collection point.

原则: 该物质和其容器的处理应在特殊的有害物或废弃物收集点进行。

Dispose in a safe manner in accordance with local/national regulations.

根据地方/国家的法规进行安全化的处理

14 - TRANSPORT INFORMATION

运输

Land transport

陆运

- Shipping Name: ALKALOIDS, SOLID, N.O.S. (Caffeine)

运输名称: 生物碱N.O.S. (咖啡因)

- UN No.: Not applicable

UN 号: 不适用

- ADR/RID class: Not applicable

ADR 级别: 不适用

- ADR/RID Packing group: Not applicable

ADR 包装组: 不适用

- *ADR Labelling: Not applicable

*ADR 标签: 不适用

Maritime transport

海运

- Shipping Name: ALKALOIDS, SOLID, N.O.S. (Caffeine)

运输名称: 有害固体, 生物碱N.O.S. (茶碱)

- UN No.: Not applicable

UN 号: 不适用

- IMDG Class: Not applicable

IMDG级别: 不适用

- IMDG Packing group: Not applicable

IMDG 包装组: 不适用

- *IMDG Labelling: Not applicable

*IMDG 标签: 不适用

Air transport

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空运

- Shipping Name: ALKALOIDS, SOLID, N.O.S. (Caffeine)

运输名称: 有害固体, 生物碱N.O.S. (茶碱)

- UN No.: Not applicable

UN 号: 不适用

- IATA Class or division: Not applicable

- IATA 分类: 不适用

IATA Packing group: Not applicable

IATA 包装组: 不适用

- *IATA Labelling: Not applicable

*IATA 标签: 不适用

15 - REGULATORY INFORMATION

法规信息

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

安全, 健康和环境条约/法规专门为物质或者混合物制定:

EU regulations:

欧洲条例:

Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances.

96/82/EC 条例关于涉及危险物重大安全事故的控制。

Remarks: Annex I, part 2, category 2.

摘要: 附录 I, 第 2 部分, 第 2 类

16 - OTHER INFORMATION

The information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

信息基于我们现有的知识。但是, 这并不能作为我们产品具有的任何特性的保证, 不能作为具有法律效益的合同。

Abbreviations and acronyms:

缩略语

RTECS: Registry of Toxic Effects of Chemical Substances

RTECS: 化学物质毒性数据库

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road;

ADR: 危险货物的国际运输道路欧洲协议;

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail;

RID: 国际铁路危险物品运输公约。

IMDG: International Maritime dangerous Goods;

IMDG: 国际海运危险货物准则

IATA: International Air Transport Association;

IATA: 国际航空运输协会

EC # (EINECS #): European Inventory of Existing Commercial Chemical Substances;

EC # (EINECS #): 欧洲现有商业化学品名录

CAS: Chemical Abstracts Service (division of the American Chemical Society);

CAS: 化学文摘社 (美国化学会部门)

LC 50: Half Maximal Lethal Concentration;

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LC 50:半数致死浓度

LD 50: Half Maximal Lethal Dose;

LD 50:半数致死量

EC 50: Half Maximal Effective Concentration;

EC 50:半最大效应浓度

IC50: Half Maximal Inhibitory Concentration.

IC50:半抑制浓度
