

尿 素

化学品安全技术说明书 MSDS

第一部分 化学品及企业标识

化学品中文名称：尿素

化学品俗名/商品名：脲

化学品英文名称：Urea

企业名称：北京康普汇维科技有限公司

地址：北京市朝阳区豆各庄宇达创意中心

邮编：100023

电子邮件地址：chem_ar@vip.163.com

传真号码：010-67290010

企业应急电话：010-67777729

国家应急电话：事故应急救援 (021) 62533429 (F) FAX (021) 62563255

火警 119

第二部分 成分/组成信息

化学品名称：脲

化学品分子式： $\text{CH}_4\text{N}_2\text{O}$

分子量：60.06

有害物成分：脲

含量：99%

CAS 号：57-13-6

第三部分 危险性概述

危险性类别：

侵入途径：食入、吸入、经皮吸收。

健康危害：无资料。

环境危害：无资料。

燃爆危险：可燃。

第四部分 急救措施

皮肤接触：脱去被污染的衣着，用清水彻底冲洗。

眼睛接触：立即提起眼睑，用大量流动清水冲洗至少 10 分钟，就医。

吸入：迅速脱离现场至空气新鲜处。



食入：让受害者饮足量水，催吐，就医。

第五部分 消防措施

危险特性：可燃，燃烧可产生有害气体或蒸气。

有害燃烧产物：一氧化碳、二氧化碳、氮氧化物。

灭火方法及灭火剂：干粉、泡沫、水。

灭火注意事项：没有配备化学防护衣和供氧设备请不要待在危险区，喷水一降低蒸汽危害，防止化学品进入地表水和地下水。

第六部分 泄漏应急处理

个人防护：隔离泄漏污染区，周围设警告标志，建议应急处理人员戴好防毒面具，穿化学防护服，不要直接接触泄漏物。

环境保护措施：化学品未经处理不允许向环境排放。

清洁/吸收措施：用清洁的铲子收集于干燥净洁有盖的容器中，收集回收或运至废物处理场所处理。

第七部分 操作处置与储存

操作注意事项：操作人员须穿戴安全防护用具，不要吸入粉尘。

储存注意事项：干燥、密封、常温储存。

第八部分 接触控制/个体防护

最高容许浓度：无资料。

监测方法：

工程控制：密闭操作，局部排风，提供安全淋浴和洗眼设备。

呼吸系统防护：空气中浓度超标时，佩带防毒口罩。

眼睛防护：一般不需要特殊防护，必要时戴化学安全防护眼睛。

身体防护：穿相应的防护服。

手防护：戴防化学品手套。

其他防护：工作毕，洗手，淋浴更衣。单独存放被污染的衣物，洗后备用。工作现场严禁吸烟、饮食、保持良好的卫生习惯。

第九部分 理化特性

外观与性状：白色结晶或粉末，有氨味。

PH值：9（100g/L H₂O，20℃）。

熔点（℃）：132.5℃—134.5℃



相对密度: 1.335
沸点: 196.6°C/760mmHg
闪点: 72.7°C
爆炸限度上限 (V/V): 无资料
爆炸限度下限 (V/V): 无资料
引燃温度 (°C): 无资料
饱和蒸汽压 (hpa): ~0.002(70°C)
热分解 (°C): 无资料
粘度 (mpa·s): 无资料
临界温度: 无资料
溶解性: 易溶于水, 溶于乙醇, 难溶于乙醚、氯仿。

第十部分 稳定性和反应活性

稳定性: 稳定
避免接触条件: 加热
禁忌物: 强氧化剂、氯气、强酸、亚硝酸盐、干粉等
危险分解产物: 见第五部分
聚合危害: 不能发生

第十一部分 毒理学资料

急性毒性: LD50: 14300mg/kg (鼠经口)
刺激性: 人经皮 22mg/3天, 轻度刺激。
食入: 反胃呕吐
其他有害: 无资料

第十二部分 生态学资料

降解性: 可以降解
生态毒性:
鱼: L. idus LC50: >6810mg/L /96h
其他信息: 合理处理该品, 一般不会出现生态问题。

第十三部分 废弃处置

废弃方法: 对化学品残存物的处置没有统一的国家法规, 化学残存物一般作特殊废物, 处置前应参阅国家和地方有关法规。我们建议您联系相关机构或认可的废物处置公司, 他们会建议您如何处置特殊废物。

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包装：处置前应参阅国家和地方有关法规。用处理污染衣物一样的方法来处理污染的包装，如果没有特别规定，未污染的包装可作家庭废物对待或再循环使用。

第十四部分 运输信息

危险货品编号：无资料

UN 编号：无资料

包装标志：无资料

包装类别：Z01

包装方法：无资料

运输注意事项：起运时包装要完整，装载应稳妥。运输过程中要确保容器不泄漏、不倒塌、不坠落、不损坏。严禁与氧化剂、酸类、亚硝酸盐、食用化学品等混装混运。运输途中应防暴晒、雨淋、防高温。车辆运输完毕应进行彻底清扫。

第十五部分：法规信息

法规信息：化学危险物品安全管理条例(1987年2月17日国务院发布)，化学危险物品安全管理条例实施细则（化劳发[1992] 677号），工作场所安全使用化学品规定（[1996]劳部发423号）等法规，针对化学危险品的安全使用、生产、储存、运输、装卸等方面均作了相应规定。

第十六部分：其他信息

参考文献：

填表部门：

数据审核单位：

修改说明：

其他信息：



Urea

Chemical Safety Data Sheet MSDS

Part I Chemicals and Corporate Identity

Chemical Chinese name: Urea

Chemical common name: urea

Chemical English name: Urea

Company Name: Beijing Kangpu Huiwei Technology Co., Ltd.

Address: Beijing Dougezhuang Yuda Creative Center, Chaoyang District, Beijing, China.

Email address: chem_ar@vip.163.com

Fax number: 010-67290010

Enterprise emergency phone: 010-67777729

National Emergency Telephone: Emergency Rescue (021) 62533429(F) FAX(021)62563255

Fire Alarm 119

Part II Composition/composition information

Chemical Name: Urea

Chemical formula: CH₄N₂O

Molecular weight: 60.06

Harmful composition: urea

Content: 99%

CAS number: 57-13-6



Part III Hazard Overview

Risk categories:

Invasive route: Ingestion, inhalation, percutaneous absorption.

Health hazards: No information available.

Environmental hazards: No information available.

Explosion hazard: Combustible.

Part IV First Aid Measures

Skin contact: Remove contaminated clothing and rinse thoroughly with clean water.

Eye contact: Immediately lift the eyelid and rinse with plenty of clean water for at least 10 minutes. Get medical attention.

Inhalation: quickly from the scene to fresh air.

Ingestion: Let the victim drink plenty of water, induce vomiting, and seek medical attention.

Part V Fire Fighting Measures

Hazardous characteristics: flammable, combustion can produce harmful gases or vapors.

Hazardous combustion products: carbon monoxide, carbon dioxide, nitrogen oxides.

Fire extinguishing methods and extinguishing agents: dry powder, foam, water.

Fire extinguishing precautions: do not have chemical protective clothing and oxygen supply equipment, please do not stay in the danger zone, spray water to reduce steam hazards, prevent School supplies enter



surface water and groundwater.

Part VI Emergency Response to Leakage

Personal Protection: Isolation of the leaked area, warning signs around, it is recommended that emergency personnel wear gas masks, wear chemical protective clothing, do not directly contact with the leak.

Environmental protection measures: Chemicals are not allowed to be discharged into the environment without being treated.

Cleaning/absorption measures: Collect with a clean shovel in a dry, clean, covered container and collect it for recycling or transport it to a waste disposal site for disposal.

Part 7 Operation and Storage

Handling Precautions: Operators must wear safety equipment and do not inhale dust.

Storage Notes: Dry, sealed, room temperature storage.

Part 8 Exposure Control/Personal Protection

The maximum allowable concentration: no information.

Monitoring method:

Engineering control: closed operation, local exhaust, safety shower and eyewash equipment.

Respiratory protection: Wear a respirator when the concentration in the air is too high.

Eye protection: Generally do not need special protection, if necessary, wear chemical safety protection eyes.

Physical protection: Wear appropriate protective clothing.

Hand protection: Wear protective gloves.

Other protection: Finished work, wash hands, and change clothes. Store contaminated clothing separately and wash it for later use. Workplaces are strictly prohibited from smoking, eating, and maintaining good hygiene practices.

Part IX Physical and Chemical Properties

Appearance and properties: white crystal or powder, ammonia smell.

PH value: 9 (100 g/L H₂O, 20° C).

Melting point (° C): 132.5° C to 134.5° C

Relative density: 1.335

Boiling point: 196.6° C Cat760mmHg

Flash point: 72.7° C

Upper Explosion Limit (V/V): No data available

Lower limit of explosion (V/V): No data available

Ignition temperature (° C): No data

Saturated vapor pressure (hpa): ~0.002 (70° C)

Thermal decomposition (° C): No data available



Viscosity (mpa · s): No data available

Critical temperature: no data

Solubility: Soluble in water, soluble in ethanol, insoluble in ether and chloroform.

Section 10 Stability and Reactivity

Stability: stable

Avoid contact conditions: heating

Incompatibility: strong oxidants, chlorine, strong acids, nitrites, dry powders, etc.

Hazardous Decomposition Products: See Part V

Polymerization Hazard: Cannot occur

Part 11 Toxicological Information

Acute toxicity: LD50: 14300mg/kg (rat oral)

Irritation: Human skin 22mg/3 days, mild irritation.

Ingestion: nausea and vomiting

Other harmful: No data

Part 12. Ecological information

Degradability: Degradable

Ecotoxicity:

Fish: *L. idus* LC50: >6810 mg/L/96h

Other information: There is generally no ecological problem if the product is properly disposed of.

Part 13 Disposal

Disposal methods: There are no uniform national laws and regulations regarding the disposal of chemical residues. Chemical residues are generally used as special waste. Before disposal, refer to national and local regulations. We recommend that you contact the relevant agency or approved waste disposal company and they will advise you on how to dispose of special waste.

Packaging: Refer to national and local regulations before disposal. Contaminated packaging is treated in the same way as contaminated clothing. Unless otherwise specified, uncontaminated packaging can be treated as household waste or recycled.

Part XIV Transport Information

Dangerous goods number: No data

UN number: no data

Packaging Logo: No data

Packing category: Z01

Packing method: no data

Transportation Note: The packaging should be complete at the time of shipment, and the loading should be secure. During transportation, it is necessary to ensure that the container does not leak, does not collapse, falls or is damaged. It is strictly prohibited to mix and transport with oxidants, acids, nitrites, edible chemicals, etc. During



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transportation, it should be protected from sun exposure, rain, and high temperature. Complete cleaning of the vehicle should be completed.

Part 15: Regulatory Information

Regulatory Information: Regulations on the Administration of Chemical Hazardous Substances Safety (promulgated by the State Council on February 17, 1987), Regulations for the Implementation of the Regulations on the Administration of Chemical Hazardous Substances (Chemicals [1992] No. 677), and Regulations on the Safe Use of Chemicals in the Workplace ([1996] Law of the Ministry of Labor issued No. 423 and other laws and regulations have made corresponding provisions for the safe use, production, storage, transportation, loading and unloading of chemical dangerous goods.

Part 16: Other Information

references:

Form filling department:

Data review unit:

Modify the description:

other information:

