

**** MATERIAL SAFETY DATA SHEET ****

物质安全技术说明书

2-Acrylamido-2-Methylpropane Sulfonic Acid

2-丙烯酰胺基-2-甲基丙磺酸

**** SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION ****

第一部分 化学品及企业标识

MSDS Name/物质品名: 2-Acrylamido-2-Methylpropane Sulfonic Acid

2-丙烯酰胺基-2-甲基丙磺酸

Company/企业名称: Weifang Gold Stone Environmental Technology Co., Ltd.

潍坊金石环保科技有限公司

CAS Number: : 15214-89-8

Phone No./企业电话: 86-536-7202882

Fax No./企业传真: 86-536-7202885

**** SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS ****

第二部分 成分、组成信息

Composition 成分	Concentration % 含量	CAS NO.	EC No.
2-Acrylamido-2-Methylpropane Sulfonic Acid 2-丙烯酰胺基-2-甲基丙磺酸	≥95.0%	15214-89-8	239-268-0

**** SECTION 3 - HAZARDS IDENTIFICATION ****

第三部分 危险性概述

Health Hazard/健康危害: Harmful in contact with skin, eyes and if swallowed. Potentially causes burns.

眼睛、皮肤接触和食入有害。或可引起烧伤。

Environment Hazard/环境危害: Potentially Environmentally Detrimental. 对环境可能有害。

Explosion Hazard/爆炸危险: Not of inflammable. 不属于易燃危险品。

**** SECTION 4 - FIRST AID MEASURES ****

第四部分 急救措施

Oral/食入: If swallowed, wash out mouth with water provided person is conscious. Get immediate medical attention. 温水漱口, 立即就医。

Eyes/眼睛接触: Flush immediately with water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Get immediate medical attention.
提起眼睑, 用流动清水冲洗 15 分钟以上, 立即就医。

Skin/皮肤接触: Wash with soap and water. Soaked clothing should be change. Get immediate medical attention if irritation develops. 脱去被污染的衣物, 用肥皂和大量清水彻底冲洗皮肤 15 分钟以上, 立即就医。

Inhalation/吸入: Remove exposed person to fresh air if adverse effects are observed. If breathing is labored, administer oxygen. If breathing has stopped, apply artificial respiration.
立即脱离现场至空气新鲜处。若呼吸困难, 给氧; 若呼吸停止, 人工呼吸。

**** SECTION 5 - FIRE FIGHTING MEASURES ****

第五部分 消防措施

Extinguishing Media/灭火剂: Water spray, dry chemical powder, carbon dioxide, or appropriate foam.
可用雾状水、干粉、二氧化碳、泡沫。

Firefighting Procedures/注意事项及措施: Recommend wearing self-contained breathing apparatus.
Water may be ineffective fighting fires.
消防员应戴自给式压式呼吸器。用水灭火或是无效的。

**** SECTION 6 - ACCIDENTAL RELEASE MEASURES ****

第六部分 泄露应急处理

Procedures of Personal Precautions/防护工具:

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.
处置人员应进行适当防护, 戴橡胶手套, 胶靴, 口罩和防护眼镜。

Methods for cleaning up/应急处理:

Sweep up with spade and transfer to a dry, clean, lidded container for disposal.

Avoid raising dust. Ventilate area and wash spill site after material pick up is complete.

用洁净铲子收集于干燥、洁净、有盖的容器中, 避免扬尘, 密闭保存, 待处置。再用大量水冲洗, 经稀释的污水放入废水系统。

**** SECTION 7 - HANDLING & STORAGE ****

第七部分 操作处置与储存

Handling/操作处置注意事项: Open container in a well ventilated area. Avoid breathing vapors.

Avoid creating dust. Maintain good housekeeping practices. Wash thoroughly after handling. 在通风良好下打开装货箱; 禁止吸入粉尘、避免扬尘; 操作后必须清洗彻底。

Storage/储存注意事项: Store in well ventilated area. Store in dry area, keep away from ignition sources; Heat and flame. Store in a tightly closed container. Incompatibilities: strong, oxidants; Strong bases and foods. 储存于阴凉、干燥库房内。远离火种、热源，保持容器密封。应与强氧化剂、强碱和食用化学品分开存放。储存区配备相应品种和数量的消防器材、泄漏应急处理设备和合适的收集材料。

**** SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION ****

第八部分 接触控制/个人防护

Engineering Controls/工程控制: Use only in a chemical fume hood. Safety shower and eye bath. 密闭操作，注意通风。提供安全淋浴和洗眼设备。

Personal Protective Equipment/个人防护设备:

Respiratory/呼吸系统: Government approved respirator. 戴管理部门认可的面罩。

Eye/眼睛防护: Chemical safety goggles. 戴化学安全眼镜。

Clothing/ 身体防护: Wear appropriate protective clothing. 穿防渗透工作服。

Hand/手防护: Compatible chemical-resistant gloves. 戴防化学手套。

Other Protect/其他防护: No smoking, drinking and eating at working site. Wash thoroughly after handling. 工作现场严禁吸烟、进食。工作后，淋浴更衣。污染的衣物洗净再用。

**** SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ****

第九部分 理化特性

Physical State/外观: White crystal powder /Granular/白色结晶粉末或颗粒

PH: ≤ 2.5

Solubility in water/溶解性: Soluble 易溶于水

Molecular Weight/分子量: 207.24

Molecular Formula/分子式: $C_7H_{13}NO_4S$

**** SECTION 10 - STABILITY AND REACTIVITY ****

第十部分 稳定性与反应活性

Stability/稳定性: Stable under normal temperatures and pressures. 常温常压下稳定。

Conditions to Avoid/避免环境: Moisture. 潮湿。

Materials to Avoid/避免接触物质: Strong oxidants, strong bases and foods. 强氧化剂、强碱。

Hazardous Polymerization/聚合危害: Will not occur. 无。

Hazardous Decomposition Products/分解产物: CO, CO₂, Nitrogen oxides, Sulfur oxides.
CO, CO₂, 氮的氧化物, 硫的氧化物。

**** SECTION 11 - TOXICOLOGICAL INFORMATION ****

第十一部分 毒理学资料

Toxicity Data/急性毒性: Oral Rat: LD₅₀ 5400 mg/kg. 大鼠 口服 半数致死量: LD₅₀ 5400 mg/kg

Irritation Data/刺激性: Harmful in contact with skin and if swallowed. Potentially causes burns. 皮肤接触和吞入有害。或可引起烧伤。

**** SECTION 12 - ECOLOGICAL INFORMATION ****

第十二部分 生态学资料

No data available. 无资料。

**** SECTION 13 - DISPOSAL CONSIDERATIONS ****

第十三部分 废弃处置

Appropriate Method of Disposal of Substance/废弃处置方法:

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with and afterburner and scrubber. Observe all federal, state and local environmental regulations.

处置前请参阅当地环保部门的有关规定。建议交给具有资格的化学废物处理部门处置。

**** SECTION 14 - TRANSPORT INFORMATION ****

第十四部分 运输信息

RID/ADR: Not applicable

IATA: Not regulated.

IMO: Not applicable

依据《汽车运输危险货物规则》和《国际海运危险货物规则》，本品均按照非危险货物运输。

**** SECTION 15 – REGULATORY INFORMATION ****

第十五部分 法规信息

EU Additional Classification/国际法规:

Risk Statements/危险警句:

R 21/22 34 Risk Statements: Harmful in contact with skin and if swallowed. Potentially causes burns. 皮肤、眼睛接触和吞入有害。或可引起烧伤。

Safe Statements/安全预防措施警句:

S 24/25 Safety Statements: Avoid contact with skin and eyes. 避免接触皮肤和眼睛。

**** SECTION 16 – OTHER INFORMATION****

第十六部分 其他信息

Date/填表日期: March 15, 2016

Revision 修改说明: 0

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. It does not represent any guarantee of the properties of the product. Our company shall not be held liable for any damage resulting from handling or from contact with the above product. Users should make their own investigations to determine the suitability of the information for their particular purposes.