



Pony Testing International Group

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报告编号(Report ID): GOIXK49V16086516

MSDS 报告

(MSDS Report)

样品名称
(Sample Description)

氨基磺酸

委托单位
(Applicant)

山东兴达化工有限公司

PONY 谱尼测试

Pony Testing International Group

www.ponytest.com



Code: 7kzq5q4

PONY 谱尼测试
Pony Testing International Group

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化学安全技术说明书

According to: ST/SG/AC.10/30/Rev.7 (GHS)

第一部分 化学品及企业标识

产品标识符

化学品中文名称：氨基磺酸

有关的确定了的物质或混合物的用途和建议不适合的用途

确定的用途：广泛应用于金属和陶瓷制造的多种工业设备和民用清洗剂、石油并处理剂和清洗剂、电镀工业用剂电化学抛光用剂、沥青乳化剂、蚀刻机、染料医药及颜料工业用磺化剂、染色用剂、高效漂白剂、纤维、纸张用阻燃剂、柔软剂、树脂交联促进剂、除草剂、防桔剂以及标准分析试剂等各领域。

安全技术说明书提供者的详情

生产企业名称：山东兴达化工有限公司

地址：山东省德州（禹城）国家高新技术产业开发区赵徒干路东侧创新街南侧 邮编：/

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传真：+86-534-8279176

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应急联系电话：+86-534-8215094

第二部分 危险性概述

物质或混合物的分类

GHS分类

眼睛刺激（类别2）

皮肤刺激（类别2）

慢性水生毒性(类别3)

GHS标记要素

象形图



信号词 警告

危险声明

H315 引起皮肤刺激。

H319 引起严重的眼睛刺激。

H412 对水生生物有害并具有长期持续影响。

警告声明

P271 只能在室外或通风良好之处使用。

P234 只能在原容器中存放。

P261 避免吸入粉尘/烟/气体/烟雾/蒸气/喷雾。

P273 避免释放到环境中。

P280 穿戴防护手套/防护服/眼睛防护/脸防护。

P302 + P352 如皮肤沾染：用大量肥皂和水清洗。



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P305 + P351 + P338 如果进入眼睛：小心用清水冲洗几分钟。如果当时容易做到，取下隐形眼镜。继续冲洗。

P501 将内装物/容器送到批准的废物处理厂处理。

其他危险

物理和化学危险：详细信息见第十部分

健康危害：详细信息见第十一部分

环境危害：详细信息见第十二部分

第三部分 成分/组成信息

成分含量：

化学名称	CAS 编号	分子式	成分	EC No.	GHS 分类
氨基磺酸	5329-14-6	H ₃ NO ₃ S	≥99.5%	226-218-8	Eye Irrit. 2 Skin Irrit. 2 Aquatic Chronic 3 H315 H319 H412

在本章节中提及的 H-声明,请见第 16 章节。

第四部分 急救措施

必要的急救措施描述

眼睛接触

检查并摘掉任何隐形眼镜，立即用流动清水冲洗至少15分钟，同时提起上下眼睑，如果刺激产生迅速就医。

皮肤接触

用肥皂和大量的水冲洗，同时脱去污染的衣物和鞋子。要特别小心清理裂缝，折痕和腹股沟处。使用润肤剂涂在受刺激的皮肤上，再次使用前要清洗衣服和鞋子，如果刺激产生并持续立即就医。

食入

不要诱导呕吐，不要向无意识的人嘴里放任何东西，用水漱口，松开系紧的衣服，如衣领，领带，皮带或腰带，立即就医。检查嘴唇和嘴巴，以确定该组织是否有破损，一个可能的迹象是误食有毒物质，没有这样的迹象，然而也不是决定性的。

吸入

尽快疏散受害人到安全区域内，松开系紧的衣服，如衣领，领带，皮带或腰带。如果不能呼吸给予人工呼吸，如果呼吸困难给予输氧，如果刺激产生并持续立即就医。警告：当吸入有毒的，传染性的或腐蚀性的物质进行嘴对嘴的人工呼吸可能对身体有害。立即就医。

对保护施救者的忠告：无相关详细资料。

急性和迟发性效应：无相关详细资料。

对医生的特别提示：根据出现的症状进行治疗。

第五部分 消防措施

灭火介质

适当的灭火介质



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使用适合当地的情况和周边环境的灭火介质。使用喷洒的水、二氧化碳、干粉、抗溶性泡沫灭火剂灭火。
此物质或混合物特别的危险性

不可燃。酸与金属反应产生一种极易燃并且具有爆炸性的氢气。受热可引起膨胀或分解，会导致容器剧烈破损。加热与硝酸盐或亚硝酸盐会导致剧烈的反应。保持产品和空的容器，远离热源和火源。

保护消防人员特殊的防护设备

在任何情况的火灾中，穿戴自吸式满足压力要求的呼吸机，MSHA/NIOSH（或者相当的标准），配备全套的保护装置。

第六部分 泄漏应急处理

人员的预防，防护设备和紧急处理程序

如果包装破裂，确保有足够的通风。使用个人防护装备。使人们远离泄漏区上风。撤离人员到安全地带。在长期的工作条件下泄漏或释放：移开火源，远离热，火源和泄漏地区，避免产生粉尘，避免吸入粉尘，如果容易尽可能的切断泄漏源。不要让水进入容器中。

环境预防措施

采取预防措施以确保泄漏物不会污染土壤或进入排水系统，地表水，下水道或地下水系统。必须避免排放到环境中。

抑制和清除溢出物的方法和材料

根据当地/国家法规（见第13条）清除并放在合适的容器为回收或进行处理。废弃物容器要适当且密封。

关于其它部分

有关安全处理的资料请参阅第7部分。

有关个人防护装备的资料请参阅第8部分。

有关弃置的资料请参阅第13节。

第七部分 操作处置与储存

安全操作的注意事项

操作过程中产生的粉尘达到足够量时与空气混合可能会产生爆炸。根据良好的工业习惯，小心处理并且不必要的接触，操作后彻底清洗，保持适当的空气流通，最小化的减小粉尘的产生和堆积，避免接触眼睛、皮肤和衣物，避免吸入粉尘。避免容器的物理损坏，倒空的容器可能残留有害物（粉尘或固体）。操作该产品时禁止吃、喝或吸烟。远离热源和火源。不要让水进入容器。

安全储存的条件,包括任何不兼容性

远离热和火焰，储存在阴凉、干燥、通风良好的地方，远离性质不相容的物质，储存的容器保持密封，远离潮湿和水，远离孩子接触到的地方。切勿使用铝制容器或镀锌容器。

特定用途 无

第八部分 接触控制和个体防护

控制参数

暴露限值 无数据资料

暴露控制



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适当的工程控制

确保足够的通风,特别是在密闭区域内。确保洗眼站和安全淋浴靠近工作场所。在可能的情况下,应采取工程控制措施,如隔离或封闭工艺、引入工艺或设备以减少释放或接触,以及使用适当设计的通风系统,以控制危险材料的源头。

工业中的个体防护

眼睛防护: 佩戴防化护目镜。

皮肤接触: 佩戴适当的防护手套。

衣物: 根据工作场所中危险物质的数量和浓度选择合适的防护服。

呼吸器: 满足 OSHA 29CFR 1910.134 或者欧洲标准 EN149 标准的呼吸机。使用 NIOSH/MSHA 或者欧洲标准 EN149 或者 EN 149 认可的呼吸机如果接触极限超过标准或者刺激或者其他的症状出现。

其它防护: 当操作、加工、储存该材料时禁止吃东西、吸烟或喝水,吃饭和吸烟之前要充分洗手,保持良好的卫生习惯。

第九部分 理化特性

物理状态:	白色结晶
颜色	白色
气味	无味
pH	无数据资料
熔点/凝固点	205°C
沸点或初始沸点和沸程	无数据资料
闪点	不适用
可燃性(固体,气体)	无数据资料
上下爆炸极限/可燃极限	无数据资料
蒸汽压	无数据资料
相对蒸汽密度	无数据资料
密度/相对密度	2.15
可溶性	溶于水
分配系数: n-辛醇/水	无数据资料
自燃温度	无数据资料
分解温度	无数据资料
运动粘度	无数据资料
颗粒特征	无数据资料

第十部分 稳定性和反应性

反应性: 无

化学稳定性: 储存正常的温度和压力条件下。

第一章 緒論

一、緒論

本書之目的，在於探討我國經濟發展之歷程，並分析其對社會之影響。本書共分三卷，第一章為緒論，第二章為經濟發展之歷程，第三章為經濟發展對社會之影響。

第二章 經濟發展之歷程

第二章之內容，主要探討我國經濟發展之歷程，包括農業、工業、服務業之發展，以及對外貿易之發展。

第三章 經濟發展對社會之影響

第三章之內容，主要探討經濟發展對社會之影響，包括就業、收入分配、社會福利、環境保護等。

第四章 結論

第四章之內容，主要總結本書之研究結果，並提出政策建議。本書之研究結果顯示，我國經濟發展之歷程，是一個不斷進步的過程，但仍有許多問題需要解決。政策建議方面，應加強對農業、工業、服務業之支持，並加強對外貿易之發展。

第五章 附錄

第六章 參考文獻

第七章 索引



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可能的危险反应

危险的聚合反应：无

危险反应：正常加工条件下不存在。

避免接触的条件：不相容的材料，过热、暴露在潮湿空气和水中。

不兼容的材料：强氧化剂、强碱。

危害的分解产物：着火条件下释放有毒的烟雾。氮的氧化物、硫的氧化物。

第十一部分 毒理学信息

毒理学影响的信息

急性毒性

氨基磺酸

LD50: 1312 mg/kg (小鼠经口);

LD50: 3160 mg/kg (大鼠经口);

LD50: 1050 mg/kg (豚鼠经口);

皮肤腐蚀/刺激

氨基磺酸

皮肤-兔 - 严重的皮肤刺激 (500 mg/24H);

严重眼损伤/眼刺激

氨基磺酸

眼睛-兔 - 严重的眼睛刺激 (250 µg/24H);

呼吸道或皮肤过敏

无数据资料

生殖细胞诱变

无数据资料

致癌性

氨基磺酸 - IARC: 国际癌症研究机构没有证实含该物质0.1%或以上的产品，可能或被认定是人类致癌物质。

生殖毒性

无数据资料

特异性靶器官系统毒性（一次接触）

无数据资料

特异性靶器官系统毒性（反复接触）

无数据资料

吸入危害

无数据资料

潜在的健康危害

眼睛：眼睛直接接触该物质可造成化学灼伤。蒸气或气雾可能有强烈刺激性。眼睛直接接触酸性腐蚀物可能引起疼痛、流泪、畏光以及灼伤。

皮肤：皮肤直接接触本物质可造成化学灼伤。暴露氨基磺酸可以引起皮肤相关的损伤包括烧伤取决于剂量和持续时间。未愈合的伤口、擦伤的或受刺激的皮肤都不应该暴露于本物质。皮肤接触酸性腐蚀性物质可能引起疼痛和灼伤；这种灼伤比较深并有明显的边缘，往往愈合较慢，并会形成疤痕。

食入：食入本物质可对口腔和胃肠道造成化学灼伤。吸入氨基磺酸可导致呕吐、腹泻、血压降低和呼吸困难等症状。超过10%的浓度可能导致胃的病变。发热后的恢复初期可能表明胸腔和腹腔的炎症，通常是由于咽喉和胃穿孔引起的。

吸入：吸入氨基磺酸可引起痰血、呼吸困难、血压低、头痛、头晕、皮肤发蓝和肺充血。有呼吸功能障碍、呼吸道疾病如肺气肿或慢性气管炎的人如果吸入过高浓度的微粒可能引起进一步的功能丧失。如果先前就已经存在循环或神经系统的损坏，或者一直存在肾损伤，且处理或使用该物质导致过度暴露的话，应当对那些可能暴露于更大风险中的人进行适当的筛查。酸性腐蚀物能引起呼吸道刺激，伴有咳嗽、呼吸道阻塞



Pony Testing International Group

产品名称：氨基磺酸

修订日期：/

MSDS 编号：GOIXK49V16086516

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和粘膜损伤。

接触后的征兆和症状

有限的证据表明反复或长期职业接触可能会产生涉及器官或生化系统累积性的健康影响。反复或长时间接触酸类物质，可能引起牙齿的腐蚀、口腔粘膜的肿胀和/或溃疡。刺激呼吸道及肺部，并通常伴有咳嗽和肺部组织炎症。长期接触可能导致皮炎或结膜炎。长期接触高浓度粉尘能引起肺功能病变，即尘肺。在人们认知范围内，该物质的物理、化学和毒理学性质没有被充分研究。

附加信息：

RTECS#: CAS# 5329-14-6: WO5950000

第十二部分 生态学信息**毒性：**

氨基磺酸 鱼类：黑头鱼：LC50：70.3 mg/l/96 h;

持久性和降解性：无数据资料

潜在的生物积累：无数据资料

土壤中的迁移：无数据资料

PBT 和 vPvB 的结果评价：无数据资料

其它不利影响：不要直接进入排水系统。对水生生物有害并具有长期持续影响。

第十三部分 废弃处置**废弃处理方法**

残余废弃物/不用的产品：废弃时，必须确定该物质是否属于危险废弃物质。处置前应参阅国家和地方有关法规，以确保正确的废弃物归类。

受污染的包装：包装材料可能含有该物质残留，应和该物质的废弃物一样处理。清洁后的包装材料应根据当地法规进行回收或再利用处理。

第十四部分 运输信息

	IATA	IMDG	RID/ADR
运输专用名称	Sulphamic acid	SULPHAMIC ACID	SULPHAMIC ACID
类或项	8	8	8
联合国编号	UN2967	UN2967	UN2967
包装等级	III	III	III

第十五部分 法规信息

专门对此物质或混合物的安全，健康和环境的规章 / 法规



Pony Testing International Group

 产品名称: 氨基磺酸
 修订日期: /

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法规信息: 参考当地的, 美国, 中国, 加拿大和欧盟等法规

成份	CAS 号	TSCA	IECSC	DSL/NDSL
氨基磺酸	5329-14-6	列入	列入	DSL 列入

第十六部分 其他信息

MSDS 编制日期: 2020 年 02 月 21 日

本份 MSDS 中的信息只是基于我们当前的所拥有的相关材料的信息而编制的, 只是为了描述本品的健康、安全与环境需求, 以使各有关方面能更好地了解和信任本产品。这些信息只是提供给您, 以供考虑、研究和确认。其中的一些危害预防措施描述并非唯一的。

所以本份 MSDS 不能作为使用本品实现任何特定目的的保证。各有关使用者有责任预先完成本品的安全性及其他方面的测试, 以评判其是否满足您的使用目的。

第三部分中提到的 H-声明

Eye Irrit. 2: 眼睛刺激(类别 2)

Skin Irrit. 2: 皮肤刺激 (类别 2)

Aquatic Chronic 3: 慢性水生毒性(类别 3)

H315 引起皮肤刺激。

H319 引起严重的眼睛刺激。

H412 对水生生物有害并具有长期持续影响。

其他信息:

ACGIH: 美国政府及工业卫生协会 (American Conference of Governmental Industrial Hygienists); CAS: 化学文摘社 (Chemical Abstracts Service); DSL: 加拿大国内物质目录 (the Domestic Substances List of Canada); EC: 欧洲委员会 (European Commission); IARC: 国际癌症研究中心 (International Agency for Research on Cancer); IATA: 国际航空运输协会 (International Air Transport Association); IMDG: 国际海运危险货物 (International Maritime Dangerous Goods); ADR: 欧洲国家关于道路运输危险货物协议 (European Agreement Concerning the International Carriage of Dangerous Goods by Road); RID 国际铁路运输危险货物规则 (Regulations Concerning the International Carriage of Dangerous Goods by Rail); LD50: 半数致死剂量; NDSL: 加拿大非国内物质目录 (the Non-Domestic Substances List of Canada); NIOSH: 美国国家职业安全健康研究所 (US National Institute for Occupational Safety and Health); NTP: 美国国家毒理学项目 (US National Toxicology Program); OSHA: 美国职业安全与卫生管理局 (US Occupational Safety and Health); PC-STEL: 短时间接触容许浓度; PC-TWA: 时间加权平均容许浓度; PEL: 容许暴露限值 (Permissible Exposure Level); REL: 建议接触限值 (Recommended Exposure Limit); RTECS: 化学物质毒性作用登记 (Registry of Toxic Effects of Chemical Substances); STEL: 短期接触限值 (Short Term Exposure Limit); TDG: 联合国关于危险货物运输的建议书规章范本 (Recommendations on the TRANSPORT OF DANGEROUS GOODS Model Regulations); TSCA: 美国有毒物质控制法 (Toxic Substances Control Act of USA); IECSC: 中国现有化学物质名录 (Inventory of Existing Chemical Substances Produced or Imported in China); TWA: 时间加权平均 (Time Weighted Average); TLV: 阈值 (Threshold Limit Value)

扫二维码
关注谱尼测试

PONY-BG186-2-012-1-2017A



Pony Testing International Group

Report No.: GOIXK49V16086516

MSDS Report

Sample Description

Sulfamic acid

Applicant

Shandong Xingda Chemical Co., Ltd.

Pony Testing International Group

www.ponytest.com



Code: 7kzq5q4

PONY 谱尼测试
Pony Testing International Group

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武汉实验室: (027)83997127
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广州实验室: (020)89224310
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成都实验室: (028)87702708

声 明 Statement

1. 本证明/报告的结论仅对委托方所送样品负责。
The conclusion of the certificate/report is responsible for the provided sample only.
2. 委托方必须如实提供样品, 申报和声明资料, 并保证与实际相符, 否则由委托方承担由此导致的全部后果和责任。
The applicant shall provide accurately and truly the description and statement of the sample, shall guarantee to match the sample and real situation which they provided and declared. Otherwise the application shall bear any relevant consequences and responsibility.
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In case the sample and documents provided involved in the situation of fake and forgery, any consequences and responsibility caused by this shall be undertaken by applicant.
4. 本证明/报告私自转让、盗用、冒用、涂改、未经本单位批准的复制(全文复制除外)或以其它任何形式的篡改均属无效, 本单位将对上述行为追究其相应的法律责任。
The certificate/report is invalid in case of illegal transfer, embezzlement, imposture, modification or any altering, reproducing except in full, without approval of PONY. PONY shall investigate and affix the applicant's legal liability accordingly.
5. 本证明/报告不考虑国家及经营人差异。
The certificate/report takes no account of the differences of countries and applicants.
6. 本单位有权在完成证明/报告后处理委托方所送样品。
PONY has the right to dispose the provided sample after approval of the certificate/report.

▲ 防伪说明:

- (1) 报告编号是唯一的;
 - (2) 报告采用特制防伪纸张印制, 纸张表面带有“PONY”防伪纹路, 该防伪纹路不支持复印, 即复制件不会带有“PONY”防伪纹路;
 - (3) 报告采用的防伪纸张内部亦加带有高科技“PONY”防伪水印, 只有在验钞机等紫外线照射下方可显出无色荧光防伪字样。
- *****



全国服务热线
400-819-5688

WWW.PONYTEST.COM

扫描二维码

关注谱尼测试微信

公众号 PONY4008195688



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青岛实验室: (0532) 88706866	大连实验室: (0411) 87336618	乌鲁木齐实验室: (0991) 6684186
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		合肥实验室: (0551) 63843474
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Pony Testing International Group

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Material Safety Data Sheet

According to: ST/SG/AC.10/30/Rev.7 (GHS)

Sulfamic acid

Section 1 - Identification of the substance/preparation and of the company/undertaking

Product Identifier

Product name: Sulfamic acid

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

Identified uses: It is widely used in many industrial equipment and civil cleaning agents, oil treatment agents and cleaning agents, electroplating agents, electrochemical polishing agents, asphalt emulsifiers, etchers, dye pharmaceuticals and pigment industry sulfonating agents, dyeing agents, efficient bleaching agents, fiber, paper flame retardants, softeners, resin crosslinking promoters, herbicides, orange preventers and Standard analytical reagents and other fields.

Details of the supplier of the safety data sheet

Supplier: Shandong Xingda Chemical Co., Ltd.

Address: The South Side of Innovation Street, The East Side of Zhaotu Main Road, National High & New Technology Industrial Development Zone, Dezhou (Yucheng), Shandong, P.R. China

TEL: +86-15863313211

FAX: +86-534-8279176

E-mail: 15863313211@163.com

Emergency Phone: +86-534-8215094

Section 2 - Hazards Identification

Classification of the substance or mixture

Classification according to GHS

Eye irritation (Category 2)

Skin irritation (Category 2)

Chronic aquatic toxicity (Category 3)

GHS label elements:

Pictogram



Signal word Warning

Hazard statement(s)

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P271 Use only outdoors or in a well-ventilated area.

P234 Keep only in original container.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.



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P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards

Physical and chemical hazards: See Section 10

Human health hazards: See Section 11

Environmental hazards: See Section 12

Section 3 - Composition/Information on Ingredient

Chemical composition

Component	CAS No.	Formula	Composition	EC No.	GHS CLASS
Sulfamic acid	5329-14-6	H ₃ NO ₃ S	≥99.5%	226-218-8	Eye Irrit. 2 Skin Irrit. 2 Aquatic Chronic 3 H315 H319 H412

For the full text of H-Statements mentioned in this Section, see Section 16.

Section 4-First Aid Measures

Description of first aid measures

Eye Contact: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes. Occasionally lifting the upper and lower eyelids. Get medical attention if irritation occurs.

Skin Contact: Immediately wash skin with soap and copious amounts of water. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation develops and persists, seek medical attention.

Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. Wash out mouth with water. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive.

Inhalation: Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if irritation develops or persists. **WARNING:** It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.

Personal protective equipment for first-aid responders:

No further relevant information available.

Most important symptoms/effects, acute and delayed:

No further relevant information available.

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Indication of immediate medical attention and special treatment needed:

Treat symptomatically.

Section 5 - Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture:

Non combustible. Acids may react with metals to produce hydrogen, a highly flammable and explosive gas. Heating may cause expansion or decomposition leading to violent rupture of containers. Heating with nitrates or nitrites can result in a violent reaction. Keep product and empty container away from heat and sources of ignition.

Advice for firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

If packages rupture. Ensure adequate ventilation. Use personal protective equipment. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas. Spilled or released at long industrial condition: Remove ignition sources, Keep away from heat and flame, evacuate area. Avoid dust formation. Avoid breathing dust. Shut off source of the leak only if it is easy to do so. Do not get water inside containers.

Environmental precautions

Take precautions to ensure product does not contaminate the ground or enter the drainage system, surface water, sanitary sewer or ground water system. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

Sweep up and place in suitable containers for recycle or disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Section 7 - Handling and Storage

Precautions for safe handling

Dust generated in handling of this product can be explosive if sufficient quantities are mixed in air. In accordance with good industrial practice, handle with care and avoid unnecessary personal contact. Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid breathing dust. Avoid physical damage to the container. Empty containers retain product residue, (dust and/or solid), and can be dangerous. Do not eat, drink or smoke while handling the product. Keep



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away from heat. Keep away from sources of ignition. Do not allow water to get into the container.

Conditions for safe storage, including any incompatibilities

Keep away from heat and flame. Store in a cool, dry, well-ventilated away from incompatible substances. Store in a tightly closed container. Keep away from moisture and water. Keep out of the reach of children. Do not use aluminium or galvanised containers.

Specific end uses

No data available

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure limits No data available

Exposure controls

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source.

Personal Protective Equipment

Eyes Protection: Wear chemical splash goggles.

Skin Protection: Wear appropriate protective gloves.

Body Protection: Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respirators Protection: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Other Protection: Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. To maintain good health habits.

Section 9 - Physical and Chemical Properties

Physical State

White crystalline

Colour

White

Odour

Odorless

pH

No data available

Melting point/freezing point

205°C

Boiling point or initial boiling point and boiling range

No data available

Flash point

Not applicable

Flammability (solid, gas)

No data available

Lower and upper explosion limit/ flammability limit

No data available

Vapour pressure

No data available



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Relative vapour density	No data available
Density/Relative density	2.15
Solubility	Soluble
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Kinematic viscosity	No data available
Particle characteristics	No data available

Section 10 - Stability and Reactivity

Reactivity	No data available
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	
Hazardous Polymerization	Will not occur.
Hazardous Reactions	None under normal processing.
Conditions to avoid	Incompatible materials. Excess heat, Exposure to moist air or water.
Incompatible materials	Strong oxidizing agents, Strong bases.
Hazardous decomposition products	Under fire conditions toxic fumes may be released. Nitrogen oxides (NOx), Sulphur oxides.

Section 11 - Toxicological Information

Information on toxicological effects

Acute toxicity:

CAS# 5329-14-6:

Oral, mouse: LD50 = 1312 mg/kg;

Oral, rat: LD50 = 3160 mg/kg;

Oral, guinea pig : LD50 = 1050 mg/kg;

Skin corrosion/irritation

CAS# 5329-14-6: Skin - rabbit- Severe skin irritation (500 mg/24H);

Serious eye damage/eye irritation

CAS# 5329-14-6: Eyes - rabbit - Severe eyes irritation (250 µg/24H);

Respiratory or skin sensitization No data available

Germ cell mutagenicity No data available

Carcinogenicity

Sulfamic acid- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity No data available

Specific target organ toxicity - single exposure No data available

Specific target organ toxicity - repeated exposure No data available

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Aspiration hazard No data available

Potential Health Effects

Eye: The material can produce chemical burns to the eye following direct contact. Vapours or mists may be extremely irritating. Direct eye contact with acid corrosives may produce pain, tears, sensitivity to light and burns.

Skin: The material can produce chemical burns following direct contact with the skin. Exposure to sulfamic acid can cause dose and duration dependent injury to the skin including burns. Open cuts, abraded or irritated skin should not be exposed to this material. Skin contact with acidic corrosives may result in pain and burns; these may be deep with distinct edges and may heal slowly with the formation of scar tissue.

Ingestion: The material can produce chemical burns within the oral cavity and gastrointestinal tract following ingestion. Ingestion of sulfamic acid precipitates vomiting, diarrhoea, reduced blood pressure and breathing difficulty from swelling of the voice box. It may cause lesion of the stomach at a concentration of more than 10%. Fever following initial recovery may indicate inflammation of the chest and abdominal cavities usually from perforation of gullet and stomach.

Inhalation: Inhalation of sulfamic acid may cause bloody sputum, difficulty in breathing, low blood pressure, headache, dizziness, bluish skin colouration and lung congestion. Persons with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis, may incur further disability if excessive concentrations of particulate are inhaled. If prior damage to the circulatory or nervous systems has occurred or if kidney damage has been sustained, proper screenings should be conducted on individuals who may be exposed to further risk if handling and use of the material result in excessive exposures. Corrosive acids can cause irritation of the respiratory tract, with coughing, choking and mucous membrane damage.

Signs and Symptoms of Exposure

Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. Repeated or prolonged exposure to acids may result in the erosion of teeth, swelling and/or ulceration of mouth lining. Irritation of airways to lung, with cough, and inflammation of lung tissue often occurs. Long term exposure may cause dermatitis or conjunctivitis. Long term exposure to high dust concentrations may cause changes in lung function i.e. pneumoconiosis. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional Information

RTECS#: CAS# 5329-14-6: WO5950000

Section 12 - Ecological Information

Toxicity

CAS# 5329-14-6: Fish: Pimephales promelas (fathead minnow): LC50 = 70.3 mg/l/96 h;

Persistence and degradability No data available

Bioaccumulative potential No data available

Mobility in soil No data available

Results of PBT and vPvB assessment No data available

Other adverse effects Do not empty into drains. Harmful to aquatic life with long lasting effects.

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Section 13 - Disposal Considerations

Waste treatment methods

Waste from Residues / Unused Products: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

Contaminated packaging: Contaminated packaging material should be treated equivalent to residual chemical. Clean packaging material should be subjected to waste management schemes (recovery recycling, reuse) according to local legislation.

Section 14 - Transport Information

	IATA	IMDG	RID/ADR
Proper shipping name	Sulphamic acid	SULPHAMIC ACID	SULPHAMIC ACID
Hazard class	8	8	8
Un number	UN2967	UN2967	UN2967
Packing group	III	III	III

Section 15 - Regulatory Information

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

Regulatory information: Reference to the local, national, US, EU, CA and international regulations.

Canada

CAS# 5329-14-6 is listed on Canada's DSL List.

US Federal

Toxic Substance Control Act (TSCA)

CAS# 5329-14-6 is listed on the TSCA Inventory.

China

Inventory of Existing Chemical Substances Produced or Imported in China (IECSC)

CAS# 5329-14-6 is listed on the IECSC Inventory.

Section 16 - Additional Information

MSDS Creation Date: Feb 21, 2020

The above information is based on the data of which we are aware and is believed to be correct as of the data hereof. Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since data made available subsequent to the data hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon



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condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

Text of H-code(s) mentioned in Section 3

Eye Irrit. 2: Eye irritation(Category 2)

Skin Irrit. 2: Skin irritation (Category 2)

Aquatic Chronic 3: Chronic aquatic toxicity (Category 3)

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Other Information:

ACGIH: (American Conference of Governmental Industrial Hygienists); CAS: (Chemical Abstracts Service);
DSL: (the Domestic Substances List of Canada); EC: (European Commission); IARC: (International Agency
for Research on Cancer); IATA: (International Air Transport Association); IMDG: (International Maritime
Dangerous Goods); ADR: (European Agreement Concerning the International Carriage of Dangerous Goods by
Road); RID: (Regulations Concerning the International Carriage of Dangerous Goods by Rail); LD50: (Lethal dose,
50 percent kill); NDSL: (the Non-domestic Substances List of Canada); NIOSH: (US National Institute for
Occupational Safety and Health); NTP: (US National Toxicology Program); OSHA: (US Occupational Safety and
Health); PEL: (Permissible Exposure Level); REL: (Recommended Exposure Limit); RTECS: (Registry of
Toxic Effects of Chemical Substances); STEL: (Short Term Exposure Limit); TDG: (Recommendations on the
TRANSPORT OF DANGEROUS GOODS Model Regulations); TSCA: (Toxic Substances Control Act of USA);
IECSC: (Inventory of Existing Chemical Substances Produced or Imported in China); TWA: (Time Weighted
Average); TLV: (Threshold Limit Value)

