

XIAMETER (R) 物质安全资料表

页码: 1/8
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版本号: GHS 1.1


DOW CORNING (R) 734 可流动密封胶 白色

一、化学品及企业识别

- | | | |
|------------|---|-------------------------------|
| 1.1 | 产品名称: | DOW CORNING (R) 734 可流动密封胶 白色 |
| 1.2 | 产品编码: | 04102962 |
| 1.3 | 化学品分类: | 硅酮弹性体 |
| 1.4 | 产品使用建议和使用限制: | 密封剂和胶粘剂 |
| 1.5 | 公司介绍

制造商/供应商名称: 道康宁（中国）投资有限公司
地址: 中国上海市张江高科技园区张衡路1077号 邮编: 201203
电话: (86 21) 38995200 ext. 2 传真电话: (86 21) 50796571
电邮地址: asia.tech@xiameter.com
应急电话: (86 512) 56732049 | |
| 1.6 | 首次制作日期: | 2011/11/17 |

二、危险性鉴别

- | | | |
|------------|-----------------|---|
| 2.1 | 危险性分类: | 易燃液体类别4
皮肤腐蚀/刺激类别2
严重眼睛损伤/眼睛刺激性类别2A |
| 2.2 | 标签包括防范说明 | 图形符号: <div style="text-align: center; margin: 10px 0;">  </div> 信号词: 警告 |
| | 危险风险声明: | 可燃液体。
引起皮肤刺激。
引起严重的眼睛刺激。 |
| | 防范说明: | 远离火源例如热源/火星/明火-禁止吸烟。
穿戴适当的防护衣物、手套及眼睛/面部防护用品。
操作后彻底洗手。
仅在室外或通风良好的区域使用。
如遇火灾, 使用适当的消防措施灭火。
如果接触眼睛: 用水小心地反复冲洗。戴隐形眼镜者如方便, 先取下隐形眼镜, 然后继续冲洗眼睛。
如果接触皮肤: 用大量肥皂和水温和冲洗。
如果眼睛刺激持续存在, 应及时求医/就诊。
如果皮肤刺激发生, 应及时求医/就诊。 |

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脱去已污染的衣服，再次使用前需要洗涤。
贮存在通风良好之处。保持阴凉。
按照当地法规进行废弃处理。

2.3 其他危险: 未知。

三、成分 / 组成信息

3.1 化学类别: 混合物

3.2 危险组分

化学品名称	CAS 编号	% (w/w)
非晶形的烟化的二氧化硅	112945-52-5	<10
甲基三乙氧基硅烷	4253-34-3	<10
二氧化钛	13463-67-7	<10
乙基三乙氧基硅烷	17689-77-9	<1
八甲基环四硅氧烷	556-67-2	<1
甲基-乙基乙氧基硅烷的低聚体	-	<1

四、急救措施

4.1 急救措施

眼睛: 立即用水冲洗15分钟，并就医处理。
皮肤: 从皮肤上抹去并用肥皂和水或无水洗液彻底清洗。如果刺激症状或其它症状产生且持续不消失时，就医处理。
吸入: 移至新鲜空气处，假如症状持续应就医处理。
经口: 就医处理。
注释: 根据患者的状况及具体的暴露处理。

4.2 重要症状及危害效应: 造成皮肤和严重眼睛刺激。

4.3 急救或救援人员人身保护

呼吸系统防护: 使用自给式呼吸器(SCBA)或其它供气式呼吸器。
眼睛防护: 使用全面罩型呼吸器。
皮肤防护: 进餐前和下班时进行冲洗。尽可能快地去除被污染的衣物和鞋子，在下次使用前需要进行充分清洗；推荐使用化学防护手套。

4.4 对医生的提示: 对症医治。如果您想进一步地了解信息，请打第一部分所列电话号码联络。

五、消防措施

5.1 适当的灭火介质: 大火时使用干粉或泡沫。小火时使用二氧化碳或干粉。可以水冷却暴露于火灾中

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	的容器。
5.2 禁止使用的灭火剂:	水。 避免灭火剂与容器内物质接触。
5.3 特殊危害:	无。
5.4 特殊灭火程序:	根据当地紧急计划, 决定是否需要撤离或隔离该区域。 用水冷却受火灾影响的容器。
5.5 消防人员的特殊保护设备:	扑灭涉及化学物品的大火时, 应佩戴自给式呼吸器及防护衣物。

六、泄漏应急处理

6.1 个人防护注意事项:	避免接触皮肤及眼睛。 避免吸入气雾, 保持容器密封。 不可内服。
6.2 环境保护注意事项:	用沙、土或其它合适的抑制物来防止扩散或进入下水道、排水沟或河流。
6.3 消除方法:	根据当地紧急计划, 决定是否需要撤离或隔离该区域。 遵守在本物质安全资料表中所列的所有个人防护设备使用建议。假如围堵的物品可以被吸起, 应将其装入合适的容器内。 用适当的吸收剂清理泄漏残余物。 适当清理泄漏区域, 因为即使少量泄露物也会产生滑腻危害。要求使用蒸汽、溶剂或清洁剂作最终清理。 适当处理浸透饱和的吸收剂或清洁物品, 因为其可能产生自热。 有关法律规定可能适用于本物品的泄漏与释放, 同样也适用于用来清理泄漏的材料物品。您需要确定较合适的法律法规。

七、操作处置与储存

7.1 操作注意事项:	使用充分的通风排气设备。 产品暴露于水或湿空气时, 会释放出乙酸(HOAc)。使用时应提供通风排气设备, 将乙酸(HOAc)控制在标准范围内或使用呼吸防护设备。避免接触皮肤及眼睛。 避免吸入气雾, 保持容器密封。 不可内服。 施行良好工业卫生措施, 请于操作后进行清洗, 尤其是在饮食或抽烟之前。
7.2 储存提示:	静电将会累积并可能点燃气雾, 应通过并联接地、惰性气体保护等防止可能的燃烧危害。保持容器密封, 远离火星及火焰。 保持容器密封, 储存时避免水或湿气。
7.3 不适合的包装材料:	未确定。

八、接触控制/个体防护

8.1 工业卫生标准:	
组分	CAS 编号 接触极限
非晶形的烟化的二氧化硅	112945-52-5 OSHA PEL (final rule): TWA 80 mg/m3/%SiO2.

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甲基三乙氧基硅烷	4253-34-3	见乙酸注释。
二氧化钛	13463-67-7	中国: TWA 8 mg/m ³ Total dust. 遵循二氧化钛暴露极限 OSHA PEL (final rule): TWA 15 mg/m ³ and ACGIH TLV: TWA 10 mg/m ³ .
乙基三乙氧基硅烷	17689-77-9	见乙酸注释。
八甲基环四硅氧烷	556-67-2	道康宁管理标准: TWA 10 ppm.
甲基-乙基乙氧基硅烷的低聚体	-	见乙酸注释。

当接触到水或湿空气时将形成乙酸。应提供充分的通风排气设备, 将暴露控制在 OSHA PEL: TWA 10 ppm 及 ACGIH TLV: TWA 10 ppm, STEL 15 ppm。

8.2 工程控制

局部通风设备:	建议使用。
普通通风设备:	建议使用。

8.3 常规操作的个人防护设备

呼吸系统防护:	使用呼吸防护设备, 除非有充分的局部通风排气设备或暴露评估证明暴露程度在其建议的标准范围内。“工业卫生部门”可协助判断现有的机械控制设备是否适当。
使用适当的呼吸器:	有机气雾/酸性气体型。
眼睛防护:	使用化学安全护目镜。
手防护:	应佩戴化学防护手套。
皮肤防护:	进餐前和下班时进行冲洗。尽可能快地去除被污染的衣物和鞋子, 在下次使用前需要进行充分清洗; 推荐使用化学防护手套。
个人卫生措施:	施行良好工业卫生措施, 请于操作后进行清洗, 尤其是在饮食或抽烟之前。

8.4 泄漏的个人防护设备

呼吸系统防护:	使用自给式呼吸器(SCBA)或其它供气式呼吸器。
眼睛防护:	使用全面罩型呼吸器。
皮肤防护:	进餐前和下班时进行冲洗。尽可能快地去除被污染的衣物和鞋子, 在下次使用前需要进行充分清洗; 推荐使用化学防护手套。
预防措施:	避免接触皮肤及眼睛。避免吸入气雾, 保持容器密封。不可内服。采取适度的防护。
注释:	产品暴露于水或湿空气时, 会释放出乙酸(HOAc)。使用时应提供通风排气设备, 将乙酸(HOAc)控制在标准范围内或使用呼吸防护设备。

备注: 这些操作注意事项都是基于常温常规操作。如果在高温使用或以气溶胶状态被使用时, 需遵守其他的注意事项。关于气溶胶吸入性毒性的进一步相关信息, 请参阅美国硅酮工业协会(www.SEHSC.com)所制定关于硅酮制品于气溶胶用途的使用指导方针, 或请和道康宁客户服务部门联络。

九、理化性质

9.1 物理形态:	粘性液体
9.2 颜色:	白色
9.3 气味:	乙酸气味
9.4 pH 值:	无数据。

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9.5	熔点:	无数据。
9.6	沸点/范围:	> 100 °C
9.7	闪点:	82.2 °C闭杯测试法
9.8	爆炸极限:	无数据。
9.9	蒸气压 (25°C):	< 6.66445 hPa
9.10	相对蒸气压 (空气=1):	无数据。
9.11	比重:	1.04 g/cm ³
9.12	水溶性:	水溶性 < 0.1 克/升
9.13	分配系数 (正辛醇/水):	无数据。
9.14	引燃温度:	无数据。
9.15	分解温度:	无数据。
9.16	气味阈值:	无数据。
9.17	蒸发率:	无数据。
9.18	燃烧性 (固体, 气体):	不适用。

以上资料仅供参考, 不用于准备产品资料。

十、稳定性和反应性

10.1	稳定性:	稳定的。
10.2	危险反应的可能性:	不会产生危害的聚合反应。
10.3	避免接触的条件:	无。
10.4	禁配物:	水、湿气或湿空气可引起危害性气雾的形成。 可与强氧化剂发生反应。
10.5	分解产物:	二氧化碳及微量的未完全燃烧的碳化物。 二氧化硅。 甲醛。 金属氧化物。

十一、毒理学资料

11.1	暴露途径:	吸入，皮肤接触和意外吞食。			
11.2	过分接触的影响和症状:	造成皮肤和严重眼睛刺激。			
11.3	急性毒性:				
	化学品名称	CAS 编号	LD50 (经口)	LD50 (经皮肤)	LC50 (吸入)

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非晶形的烟化的二氧化硅	112945-52-5	> 20,000 mg/kg (大鼠)	-	-
甲基三乙氧基硅烷	4253-34-3	1,550 mg/kg (大鼠)	-	-
二氧化钛	13463-67-7	> 10,000 mg/kg (大鼠)	> 10,000 mg/kg (兔子)	-
乙基三乙氧基硅烷	17689-77-9	380 mg/kg (大鼠)	-	-
八甲基环四硅氧烷	556-67-2	> 4,800 mg/kg (大鼠)	> 2.5 ML/KG (兔子)	2975 PPM (大鼠; 4小时 蒸气)
甲基-乙基乙氧基硅烷的低聚体	-	1,460 mg/kg	-	-

眼睛: 气雾可能刺激眼睛。 直接接触可能引起严重的刺激。
皮肤: 可能引起中等程度的刺激。
食入: 正常使用时只具很低的摄入危害。
吸入: 气雾可能刺激鼻子及咽喉。

11.4 慢性毒性

皮肤: 反复或长时间暴露可能引起严重的刺激。
食入: 反复或大量摄入可能造成身体内部伤害。
吸入: 反复或长时间暴露吸入可能造成内部伤害。

11.5 其它健康危害信息: 无适合的资料。

以上所列举的潜在的危害是建立对产品或类似产品的组分研究所得数据或专家对产品的评审的基础上。

十二、生态学资料

12.1 水生和陆生生态毒性

生态毒性效应:

急性影响: 对水生有机体无有害影响。

慢性影响: 对水生有机体无有害影响。

对废水处理厂的影响: 对细菌无有害影响。 通过与污水淤泥粘合, 可被去除 90% 以上。 本产品中的硅氧烷不是BOD的一部分。

12.2 持久性和降解性

降解性: 硅氧烷在土壤中退化降解。

12.3 生物蓄积性潜力

生物积累性: 无生物累积能力。

12.4 在土壤中流动性: 通过沉积或粘合至污水淤泥, 将硅氧烷从水中分离出来。

12.5 进一步的环境补充资料: 可根据要求提供额外的有关硅氧烷化合物的环境资料。

十三、废弃处置

13.1 产品废弃物处置方法: 按照当地法规进行废弃处理。

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13.2 包装废弃物处置方法: 按照当地法规进行废弃处理。

十四、运输信息

14.1 公路和铁路运输

不适用。

14.2 海运 (IMDG)

不属 IMDG 编码。

14.3 空运 (IATA)

不属 IATA 规定。

14.4 特殊要求和其他资料 : 无。

十五、法规信息

15.1 适用法规: 工作场所安全使用化学品规定[(1996)劳部发423号]
危险化学品安全管理条例[2002年2月1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〕667号]
化学品分类和危险性公示通则[GB 13690-2009]

15.2 化学品库存

EINECS: 所有组份均列入或予以豁免。
TSCA: 本物品中的所有化学成分都被列入TSCA化学物质目录或获得TSCA化学物质目录的豁免。
AICS: 所有组份均列入或予以豁免。
IECSC: 所有组份均列入或予以豁免。
KECL: 所有成份均被列出、予以免除或公告。
DSL: 本物品中的所有化学成分都被列入DSL化学物质目录或获得DSL化学物质目录的豁免。
ENCS/ISHL: 未评估。
PICCS: 未评估。
HSNO: 未评估。

十六、其他信息

16.1 联络处: 技术信息中心 (86 21)38995200 ext. 2

16.2 制作者: 道康宁(中国)投资有限公司

图例:
- 没有具体的资料



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这个资料不是产品说明书，而是为了提供有代表性价值的概念。这里没有担保、表白或暗示。推荐的工业卫生和安全处理程序相信已基本适用。然而，每位用户应于使用前审阅此产品预定使用方式的建议并决定是否适用。

XIAMETER(R) is a trademark of Dow Corning Corporation

<http://www.xiameter.com>



DOW CORNING® 734 Flowable Adhesive/Sealant

FEATURES

- One-component adhesive/sealant
- Cures at room temperature when exposed to moisture in the air
- Acetoxy cure system
- Flowable and self-levelling
- Easy to apply
- Cures to a tough, flexible rubber
- Fast tack-free time
- Good adhesion to many substrates
- Stable and flexible from -65°C to +180°C
- Excellent dielectric properties
- Complies with MIL-A-46106B

Flowable silicone adhesive/sealant

APPLICATIONS

- General industrial sealing and bonding applications requiring a flowable product.
- Particularly suitable for sealing assemblies with fine joints as well as cable entries and connectors, to ensure that they remain water tight.
- Due to its good adhesion to other silicone rubbers, ideally suited for making field repairs on existing equipment where a part of an existing silicone encapsulant has been removed.

TYPICAL PROPERTIES

Specification writers: These values are not intended for use in preparing specifications. Please contact your local Dow Corning sales representative prior to writing specifications on this product.

CTM*	ASTM*	Property	Unit	Value
		As supplied		
0176		Appearance		Flowable liquid
		Color		White or clear
0050	D1084	Viscosity at 25°C	mPa.s	45,000
0098		Skin-over time	minutes	7
0095		Tack-free time	minutes	13
0208		Non-volatile content after 24 hours at 70°C	%	95
		Physical properties measured on 2mm thick sheet after 7 days cure in air at 25°C and 50% relative humidity		
0022	D792	Specific gravity		1.03
0099	D2240	Durometer hardness, Shore A		27
0137A	D412	Tensile strength	MPa	1.5
0137A	D412	Elongation at break	%	315
0159A	D624	Tear strength - die B	kN/m	3.0
0057		Brittle point	°C	-65
		Electrical properties, after 7 days cure in air at 25°C and 50% relative humidity		
0114	D149	Dielectric strength	kV/mm	17
0249	D257	Volume resistivity	Ohm.cm	1x10 ¹⁴
0112	D150	Permittivity at 100Hz		2.7
0112	D150	Permittivity at 100kHz		2.7
0112	D150	Dissipation factor at 100Hz		0.00034
0112	D150	Dissipation factor at 100kHz		0.00019

* CTM: Corporate Test Method, copies of CTMs are available on request.
ASTM: American Society for Testing and Materials.

HOW TO USE

Substrate preparation

All surfaces must be clean and dry. Degrease and wash off any contaminants that could impair adhesion. Suitable solvents include isopropyl alcohol, acetone or methyl ethyl ketone.

Unprimed adhesion may be obtained on many substrates such as glass, metals and most common engineering plastics. Substrates to which good adhesion is normally not obtained include PTFE, polyethylene, polypropylene and related materials.

For maximum adhesion, the use of DOW CORNING® 1200 OS Primer is recommended. After solvent cleaning, a thin coat of DOW CORNING 1200 OS Primer is applied by dipping, brushing or spraying. Allow primer to dry for 15 to 90 minutes at room temperature and a relative humidity of 50% or higher.

How to apply

Apply DOW CORNING 734 Flowable Adhesive/Sealant to the prepared surfaces in a uniform thickness of 0.25 to 0.75mm. If the adhesive is to be used to bond two surfaces, apply it only to one surface and allow it to establish a uniform contact before putting the other surface in place. When placing the second, use enough pressure to spread the adhesive and displace any trapped air.

On exposure to moisture, the freshly applied material will "skin over" in about 7 minutes at room temperature and 50% relative humidity. Any tooling should be completed before this skin forms.

Cure time

After skin formation, cure continues inward from the surface. In 24 hours (at room temperature and 50% relative humidity) DOW CORNING 734 Flowable Adhesive/Sealant will cure to a depth of about 3mm. Very deep sections, especially when access to atmospheric moisture is restricted, will take longer to cure completely. Cure time is extended at lower

humidity levels.

Before handling and packaging bonded components, users are advised to wait a sufficiently long time to ensure that the integrity of the adhesive seal is not affected. This will depend on many factors and should be determined by the user for each specific application.

Compatibility

DOW CORNING 734 Flowable Adhesive/Sealant releases a small amount of acetic acid during cure. This may cause corrosion on some metallic parts or substrates, especially in direct contact or when the cure is carried out in a totally enclosed configuration which would not allow cure by-products to escape.

HANDLING PRECAUTIONS

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE FROM YOUR LOCAL DOW CORNING SALES REPRESENTATIVE.

USABLE LIFE AND STORAGE

When stored at or below 32°C in the original unopened containers DOW CORNING 734 Flowable Adhesive/Sealant has a usable life of 24 months from the date of production.

As DOW CORNING 734 Flowable Adhesive/Sealant cures by reaction with moisture in air, keep the container tightly sealed when not in use. A plug of used material may form in the tip of a tube or cartridge during storage. This is easily removed and does not affect the remaining contents.

PACKAGING

This product is available in standard industrial container sizes. For details

please refer to your Dow Corning sales office.

LIMITATIONS

This product is neither tested nor represented as suitable for medical, food contact or pharmaceutical uses.

HEALTH AND ENVIRONMENTAL INFORMATION

To support customers in their product safety needs, Dow Corning has an extensive Product Stewardship organization and a team of Health, Environment and Regulatory Affairs specialists available in each area.

For further information, please consult your local Dow Corning representative.

WARRANTY INFORMATION - PLEASE READ CAREFULLY

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that Dow Corning's products are safe, effective, and fully satisfactory for the intended end use. Dow Corning's sole warranty is that the product will meet the Dow Corning sales specifications in effect at the time of shipment. Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted. Dow Corning specifically disclaims any other express or implied warranty of fitness for a particular purpose or merchantability. Unless Dow Corning provides you with a specific, duly signed endorsement of fitness for use, Dow Corning disclaims liability for any incidental or consequential damages. Suggestions of use shall not be taken as inducements to infringe any patent.

**Dow Corning (Zhangjiagang) Holding Company
Limited
Material Safety Data Sheet****DOW CORNING(R) 734 FLOWABLE SEALANT, CLEAR****1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY**

- 1.1 Product Name:** DOW CORNING(R) 734 FLOWABLE SEALANT, CLEAR
- 1.2 Product Code:** 01907506
- 1.3 Chemical Classification:** Silicone elastomer
- 1.4 Recommended Product Usage and Limited Use:** Sealant and adhesive
- 1.5 Company Details**
- Manufacturer/Supplier:** Dow Corning (Zhangjiagang) Holding Company Limited
Address: 18 Beihai Road, Yangtze River International Chemical Industry Park, Zhangjiagang, Jiangsu Province, P.R.C., Postal Code: 215634
- Telephone Number:** 400 880 7110
Email Address: China.info@dowcorning.com
Emergency Telephone Number: (86 512) 56732049
- 1.6 First Issuing Date:** 2010/03/10

2. HAZARD IDENTIFICATION**Emergency Overview:**

Physical Form: Viscous Liquid
Color: Colorless
Odor: Acetic acid odor

Combustible liquid. Causes skin irritation. Causes serious eye irritation.

- 2.1 Hazard Classification:** Flammable liquid: Category 4
Skin corrosion/irritation: Category 2
Serious eye damage/eye irritation: Category 2A

2.2 Label Elements Including Precautionary Statements**Symbol:**

Signal Word: Warning

Hazard Risk Statement: Combustible liquid.
Causes skin irritation.
Causes serious eye irritation.

Precautionary Statement: Keep away from ignition sources such as heat/sparks/open flame - No smoking.
Wear suitable protective clothing, gloves and eye/face protection.
Wash hands thoroughly after handling.

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Use only outdoors or in a well-ventilated area.

In case of fire, use appropriate fire-fighting measures for extinguishing.

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

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

If eye irritation persists, get medical advice/attention.

If skin irritation occurs, get medical advice/attention.

Take off contaminated clothing and wash before reuse.

Store in a well-ventilated place. Keep cool.

Dispose of in accordance with local regulations.

2.3 Physical-chemical Hazards:

Combustible liquid.

2.4 Health Hazards:

Causes skin and serious eye irritation.

2.5 Environmental Hazards:

Acute: No adverse effects on aquatic organisms. Chronic: No adverse effects on aquatic organisms.

2.6 Other Hazard:

None known.

3. COMPOSITION / INFORMATION ON INGREDIENTS**3.1 Chemical characterization:** Mixture**3.2 Hazardous Ingredients**

<u>Chemical Name</u>	<u>CAS No.</u>	<u>% (w/w)</u>
Amorphous fumed silica	112945-52-5	<10
Methyltriacetoxysilane	4253-34-3	<10
Ethyltriacetoxysilane	17689-77-9	<1
Octamethylcyclotetrasiloxane	556-67-2	<1
Oligomers of methyl-ethyl acetoxysilane	-	<1

4. FIRST AID MEASURES**4.1 First Aid Measures**

Eyes: Immediately flush with water for 15 minutes. Get medical attention.
Skin: Remove from skin and wash thoroughly with soap and water or waterless cleanser. Get medical attention if irritation or other ill effects develop or persist.
Inhalation: Remove to fresh air. Get medical attention if ill effects persist.
Oral: Get medical attention.
Comments: Treat according to person's condition and specifics of exposure.

4.2 Important Symptoms and Hazard Effects: Causes skin and serious eye irritation.**4.3 Personal Protection for First Aid or Rescue Personnel**

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Respiratory Protection: Use self-contained breathing apparatus (SCBA) or other supplied-air respirator.
Eye Protection: Use full face respirator.
Skin Protection: Wash at mealtime and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse. Chemical protective gloves are recommended.

4.4 Note to physicians: Treat symptomatically. For further information, the medical practitioner should contact Dow Corning (China) Holding Company Limited.

5. FIRE-FIGHTING MEASURES

- 5.1 Suitable Extinguishing Media:** On large fires use dry chemical or foam. On small fires use CO2 or dry chemical. Water can be used to cool fire exposed containers.
- 5.2 Unsuitable Extinguishing Media:** Water. Do not allow extinguishing medium to contact container contents.
- 5.3 Specific Hazards:** None.
- 5.4 Special Fire Fighting Procedures:** Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.
- 5.5 Special protective equipment for the Fire Fighters:** Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals.

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal Precautions:** Avoid skin and eye contact. Avoid breathing vapor. Keep container closed. Do not take internally.
- 6.2 Environmental Precautions:** Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers.
- 6.3 Methods for Cleaning up:** Determine whether to evacuate or isolate the area according to your local emergency plan. Observe all personal protective equipment recommendations described in this MSDS. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbant. Clean area as appropriate since spilled materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbant or cleaning materials appropriately, since spontaneous heating may occur. Laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which laws and regulations are applicable.

7. HANDLING AND STORAGE

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7.1 Handling Precautions:	Use with adequate ventilation. Product evolves acetic acid (HOAc) when exposed to water or humid air. Provide ventilation during use to control HOAc exposures within exposure guidelines or use respiratory protection. Avoid skin and eye contact. Avoid breathing vapor. Keep container closed. Do not take internally. Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.
7.2 Storage Conditions:	Static electricity will accumulate and may ignite vapors. Prevent a possible fire hazard by bonding and grounding or inert gas purge. Keep container closed and away from heat, sparks, and flame. Keep container closed and store away from water or moisture.
7.3 Unsuitable Packaging Materials:	None established.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**8.1 Industrial Hygiene Standards:**

<u>Ingredients</u>	<u>CAS No.</u>	<u>Exposure Limits</u>
Amorphous fumed silica	112945-52-5	OSHA PEL (final rule): TWA 80 mg/m ³ /SiO ₂ .
Methyltriacetoxysilane	4253-34-3	See acetic acid comments.
Ethyltriacetoxysilane	17689-77-9	See acetic acid comments.
Octamethylcyclotetrasiloxane	556-67-2	Dow Corning guide: TWA 10 ppm.
Oligomers of methyl-ethyl acetoxysilane	-	See acetic acid comments.

Acetic acid is formed upon contact with water or humid air. Provide adequate ventilation to control exposures within guidelines of OSHA PEL: TWA 10 ppm and ACGIH TLV: TWA 10 ppm, STEL 15 ppm.

8.2 Engineering Controls

Local Ventilation:	Recommended.
General Ventilation:	Recommended.

8.3 Personal Protective Equipment for Routine Handling

Respiratory protection:	Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. IH personnel can assist in judging the adequacy of existing engineering controls.
Suitable Respirator:	Organic Vapor/Acid Gas Type.
Eye protection:	Use chemical worker's goggles.
Hand protection:	Chemical protective gloves should be worn.
Skin protection:	Wash at mealtime and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse. Chemical protective gloves are recommended.
Hygiene Measures:	Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.

8.4 Personal Protective Equipment for Spills

Respiratory protection:	Use self-contained breathing apparatus (SCBA) or other supplied-air respirator.
Eye protection:	Use full face respirator.

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Skin protection:	Wash at mealtime and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse. Chemical protective gloves are recommended.
Precautionary Measures:	Avoid skin and eye contact. Avoid breathing vapor. Keep container closed. Do not take internally. Use reasonable care.
Comments:	Product evolves acetic acid (HOAc) when exposed to water or humid air. Provide ventilation during use to control HOAc exposures within exposure guidelines or use respiratory protection.

Note: These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions. For further information regarding aerosol inhalation toxicity, please refer to the guidance document regarding the use of silicone-based materials in aerosol applications that has been developed by the silicone industry (www.SEHSC.com) or contact the Dow Corning customer service group.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Physical Form:	Viscous Liquid
9.2 Color:	Colorless
9.3 Odor:	Acetic acid odor
9.4 pH:	Not determined.
9.5 Melting Point:	Not determined.
9.6 Boiling point/range:	> 100 °C
9.7 Flash Point:	87 °C(Closed Cup)
9.8 Explosive Limit:	Not determined.
9.9 Vapor Pressure @ 25°C:	no data available
9.10 Vapour Density (air=1):	Not determined.
9.11 Specific Gravity:	1.03 g/cm3
9.12 Water Solubility:	Not determined.
9.13 Partition Coefficient (n-Octanol/Water):	no data available
9.14 Autoignition temperature:	Not determined.
9.15 Decomposition Temperature :	Not determined.
9.16 Odor Threshold:	Not determined.
9.17 Evaporation Rate:	Not determined.
9.18 Flammability (Solid, Gas):	Not applicable.

The above information is not intended for use in preparing product specifications. Contact Dow Corning before writing specifications.

10. STABILITY AND REACTIVITY

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10.1 Stability:	Stable.
10.2 Possibility of Hazardous Reactions:	Hazardous polymerization will not occur.
10.3 Conditions to Avoid:	None.
10.4 Materials to Avoid:	Water, moisture or humid air can cause hazardous vapors to form. Can react with strong oxidising agents.
10.5 Hazardous Decomposition Products:	Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Formaldehyde.

11. TOXICOLOGICAL INFORMATION

11.1 Route of Exposure:	Inhalation, skin contact and accidental ingestion.			
11.2 Signs and Symptoms of Overexposure:	Causes skin and serious eye irritation.			
11.3 Acute Toxicity:				
Chemical Name	CAS No.	LD50 (Oral)	LD50 (Dermal)	LC50 (Inhalation)
Amorphous fumed silica	112945-52-5	> 20,000 mg/kg (Rat)	-	-
Methyltriacetoxysilane	4253-34-3	1,550 mg/kg (Rat)	-	-
Ethyltriacetoxysilane	17689-77-9	380 mg/kg (Rat)	-	-
Octamethylcyclotetrasiloxane	556-67-2	> 4,800 mg/kg (Rat)	> 2.5 ML/KG (Rabbit)	2975 PPM (Rat; 4hr vapor)
Oligomers of methyl-ethyl acetoxysilane	-	1,460 mg/kg	-	-
Eyes:	Vapor may cause eye irritation. Direct contact may cause severe irritation.			
Skin:	May cause moderate irritation.			
Ingestion:	Low ingestion hazard in normal use.			
Inhalation:	Vapor may irritate nose and throat.			
11.4 Chronic Toxicity				
Skin:	Repeated or prolonged exposure may irritate seriously.			
Ingestion:	Repeated ingestion or swallowing large amounts may injure internally.			
Inhalation:	Prolonged or repeated exposure by inhalation may injure internally.			
11.5 Other Health Hazard Information:	No known applicable information.			

The above listed potential effects of overexposure are based on actual data, the results of studies performed upon similar compositions, component data, and/or expert review of the products.

12. ECOLOGICAL INFORMATION

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12.1 Aquatic and Terrestrial Ecotoxicity

Ecotoxicity Effects:

Acute: No adverse effects on aquatic organisms.

Chronic: No adverse effects on aquatic organisms.

Fate and Effects in Waste Water Treatment Plants: No adverse effects on bacteria. Removed > 90% by binding onto sewage sludge. The siloxanes in this product do not contribute to the BOD.

12.2 Persistence and Degradability

Degradation: In soil, siloxanes are degraded.

12.3 Bioaccumulative Potential

Bioaccumulation: No bioaccumulation potential.

12.4 Mobility in Soil:

Siloxanes are removed from water by sedimentation or binding to sewage sludge.

12.5 Additional Environmental Information:

Additional environmental information on the silicone component is available on request.

13. DISPOSAL CONSIDERATIONS

13.1 Product Disposal:

Dispose of in accordance with local regulations.

13.2 Packaging Disposal:

Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

14.1 Road and Rail Transport

Not applicable.

14.2 Sea Transport (IMDG)

Not subject to IMDG code.

14.3 Air Transport (IATA)

Not subject to IATA regulations.

14.4 Special Requirements and Additional Information :

None.

15. REGULATORY INFORMATION

15.1 Applicable Laws:

Provisions of the Regulations for the Safe Handling of Chemicals in the Workplace
The Regulations for Safe Management of Dangerous Chemicals.
Code of Practice for Safe Management of Dangerous Chemicals
General rule for classification and hazard communication of chemicals

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DOW CORNING(R) 734 FLOWABLE SEALANT, CLEAR**15.2 Chemical Inventories**

EINECS:	All ingredients listed or exempt.
TSCA:	All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.
AICS:	All ingredients listed or exempt.
IECSC:	All ingredients listed or exempt.
ENCS/ISHL:	All components are listed on ENCS/ISHL or its exempt rule.
KECL:	All ingredients listed, exempt or notified.
HSNO:	All ingredients listed or exempt.
PICCS:	All ingredients listed or exempt.
DSL:	All chemical substances in this material are included on or exempted from the DSL.

16. OTHER INFORMATION

16.1 Contact Point: Technical Information Center 400 880 7110

16.2 Prepared by: Dow Corning (Zhangjiagang) Holding Company Limited

Legend:

- No specific information available

This information is offered in good faith as typical values and not as a product specification. No warranty, expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

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