



DOW CORNING(R) 734 FLOWABLE SEALANT,
CLEAR

版本	修订日期:	SDS编号:	前次修订日期: 2015/02/17
1.1	2015/06/09	759034-00002	最初编制日期: 2015/02/17

1. 化学品及企业标识

产品名称 : DOW CORNING(R) 734 FLOWABLE SEALANT, CLEAR

产品代码 : 000000000001907506

产品类别 : 硅酮弹性体

制造商或供应商信息

制造商或供应商名称 : 道康宁 (张家港) 投资有限公司

地址 : 中国江苏省张家港市扬子江国际化学工业园区北海路18号
邮编 : 215634

电话号码 : 400 880 7110

应急咨询电话 : (86 512) 56732049

电子邮件地址 : China.info@dowcorning.com

推荐用途和限制用途

推荐用途 : 粘接剂, 结合剂

2. 危险性概述

紧急情况概述

外观与性状 : 粘性液体

颜色 : 无色

气味 : 乙酸

可燃液体。

GHS危险性类别

易燃液体 : 类别 4

GHS标签要素

象形图 : 无

信号词 : 警告

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危险性说明 : H227 可燃液体。

防范说明 : **预防措施:**
P210 远离热源/火花/明火。禁止吸烟。
P271 只能在室外或通风良好之处使用。
P280 戴防护手套/穿防护服/戴防护眼罩/戴防护面具。
储存:
P403 + P235 存放在通风良好的地方。保持低温。
废弃处置:
P501 将内装物/容器送到批准的废物处理厂处理。

物理和化学危险

可燃液体。

健康危害

根据现有信息无需进行分类。

环境危害

根据现有信息无需进行分类。

GHS未包括的其他危害

蒸气可能与空气形成爆炸性混合物。

3. 成分/组成信息

物质/混合物 : 混合物

危险组分

化学品名称	化学文摘登记号 (CAS No.)	浓度或浓度范围 (%)
无定型气相法二氧化硅	112945-52-5	>= 1 - < 10
八甲基环四硅氧烷	556-67-2	>= 0.1 - < 1

4. 急救措施

吸入 : 如吸入, 移至新鲜空气处。
如有症状, 就医。

皮肤接触 : 谨慎起见用水和肥皂清洗。
如有症状, 就医。

眼睛接触 : 谨慎起见用水冲洗眼睛。
如果刺激发生并持续, 就医。

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食入	: 如吞咽: 不要引吐。 如有症状, 就医。 用水彻底漱口。
最重要的症状和健康影响	: 未见报道。
对保护施救者的忠告	: 对于急救员, 不需要特定的预防措施。
对医生的特别提示	: 对症辅助治疗。

5. 消防措施

灭火方法及灭火剂	: 水喷淋 耐醇泡沫 二氧化碳 (CO ₂) 化学干粉
不合适的灭火剂	: 大量水喷射
特别危险性	: 不要使用强实水流, 因为它可能使火势蔓延扩散。 火舌回闪有可能穿过相当长的距离。 蒸气可能与空气形成爆炸性混合物。 接触燃烧产物可能会对健康有害。
有害燃烧产物	: 碳氧化物 硅氧化物 甲醛
特殊灭火方法	: 根据当时情况和周围环境采用适合的灭火措施。 喷水冷却未打开的容器。 在安全的情况下, 移出未损坏的容器。 撤离现场。
消防人员的特殊保护装备	: 如有必要, 佩戴自给式呼吸器进行消防作业。 使用个人防护装备。

6. 泄漏应急处理

人员防护措施、防护装备和应急处置程序	: 消除所有火源。 遵循安全处置建议和个人防护装备建议。
环境保护措施	: 避免排放到周围环境中。 如能确保安全, 可采取措施防止进一步的泄漏或溢出。

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防止大范围的扩散（例如：用围挡或用油栏）。
保留并处置受污染的洗涤水。
如果无法围堵严重的溢出，应通报当地主管当局。

泄漏化学品的收容、清除方法及所使用的处置材料：

- 应使用无火花的工具。
- 用惰性材料吸收。
- 喷水压制气体/蒸气/雾滴。
- 对于大量溢漏来说，进行围堵或采用其他恰当的防漏措施以免材料扩散。如果可以用泵抽排被围堵的材料，则应将回收的材料存放在合适的容器中。
- 用适当的吸收剂清理残留的溢漏材料。
- 地方或国家法规可能适用于这种材料的释放和处置，以及清理排放物时使用的材料和物品。您需要自行判定适用的法规。
- 本SDS的第13部分和第15部分给出了特定地方或国家要求的相关信息。

7. 操作处置与储存

操作处置

技术措施：请参阅“接触控制/个体防护”部分的工程控制。

局部或全面通风：使用局部排气通风系统。
仅可在装有防爆排气通风设备的地方使用。

安全处置注意事项：按照良好的工业卫生和安全规范进行操作。
保持容器密闭。
远离热源和火源。
采取预防措施防止静电释放。
小心防止溢出、浪费并尽量防止将其排放到环境中。

防止接触禁配物：氧化剂

储存

安全储存条件：存放在有适当标识的容器内。
保持密闭。
在阴凉、通风良好处储存。
按国家特定法规要求贮存。
远离热源和火源。

禁配物：请勿与下列产品类型共同储存：
强氧化剂

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包装材料 : 不适合的材料: 未见报道。

8. 接触控制和个体防护

危害组成及职业接触限值

成分	化学文摘登记号 (CAS No.)	数值的类型 (接触形式)	控制参数 / 容许浓度	依据
无定型气相法二氧化硅	112945-52-5	PC-TWA (总粉尘)	5 mg/m ³	GBZ 2.1-2007
八甲基环四硅氧烷	556-67-2	TWA	10 ppm	DCC OEL

工程控制 : 加工可形成危险品化合物 (见第10节)。确保足够的通风, 特别在封闭区域内。尽可能降低工作场所的接触浓度。仅可在装有防爆排气通风设备的地方使用。

个体防护装备

呼吸系统防护 : 一般来说无需个人呼吸防护设备。

眼面防护 : 穿戴下列个人防护装备:
安全眼镜

皮肤和身体防护 : 根据耐化学性资料和潜在局部暴露的风险评估, 选择适当的防护服。
穿戴下列个人防护装备:
阻燃防静电防护服。
必须使用防渗的防护服 (手套、围裙、靴子等) 以避免皮肤接触。

手防护
材料 : 阻燃手套

备注 : 根据有害物质的浓度与数量及特定的工作场所, 选择专用的手套保护手不受化学药剂损伤。休息前及工作结束时洗手。

卫生措施 : 确保洗眼器和安全淋浴器位于工作场所附近。
使用时, 严禁饮食及吸烟。
沾染的衣服清洗后方可重新使用。
上述预防措施仅针对室温操作, 加热使用或气雾剂/喷雾应用可能需要额外的预防措施。
关于消费品气雾剂中有机硅/有机油类使用的进一步相关信息, 请参考有机硅行业制定的消费品气雾剂应用中使用此类材料的相关指南 (www.SEHSC.com), 或者联系 Dow Corning 客

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户服务团队。

9. 理化特性

外观与性状	: 粘性液体
颜色	: 无色
气味	: 乙酸
气味阈值	: 无数据资料
pH值	: 无数据资料
熔点/凝固点	: 无数据资料
初沸点和沸程	: > 100 ° C
闪点	: 87 ° C 方法: 闭杯
蒸发速率	: 无数据资料
易燃性(固体, 气体)	: 不适用
爆炸上限	: 无数据资料
爆炸下限	: 无数据资料
蒸气压	: 无数据资料
蒸气密度	: 无数据资料
密度/相对密度	: 1.03
溶解性	
水溶性	: 无数据资料
正辛醇/水分配系数	: 无数据资料
自燃温度	: 无数据资料
分解温度	: 无数据资料
黏度	

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动力黏度	: 45,000 mPa. s
爆炸特性	: 无爆炸性
氧化性	: 此物质或混合物不被分类为氧化剂。
分子量	: 无数据资料

10. 稳定性和反应性

反应性	: 未被分类为反应性危害。
稳定性	: 正常条件下稳定。
危险反应	: 可燃液体。 蒸气可能与空气形成爆炸性混合物。 在升温条件下使用, 可形成高危害性化合物 (参见第10章)。 可与强氧化剂发生反应。 与水或湿空气接触生成乙酸。 在高温下, 会形成有害的分解产物。
应避免的条件	: 热、火焰和火花。
禁配物	: 氧化剂
危险的分解产物	
热分解	: 甲醛

11. 毒理学信息

接触途径	: 吸入 皮肤接触 食入 眼睛接触
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急性毒性

根据现有信息无需进行分类。

成分:

无定型气相法二氧化硅:

急性经口毒性	: LD50 (大鼠): > 20,000 mg/kg 评估: 此物质或混合物无急性口服毒性 备注: 信息来源于参考书和文献资料。
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八甲基环四硅氧烷:

急性经口毒性 : LD50 (大鼠): > 4,800 mg/kg
评估: 此物质或混合物无急性口服毒性
备注: 根据测试数据

急性吸入毒性 : LC50 (大鼠): 2975 ppm
暴露时间: 4 小时
测试环境: 蒸气
评估: 此物质或混合物无急性吸入毒性
备注: 根据测试数据

急性经皮毒性 : LD50 (家兔): > 2.5 ml/kg
评估: 此物质或混合物无急性皮肤毒性
备注: 根据测试数据

皮肤腐蚀/刺激

根据现有信息无需进行分类。

产品:

结果: 无皮肤刺激
备注: 基于类似物中的数据

成分:

八甲基环四硅氧烷:

种属: 家兔
结果: 无皮肤刺激
备注: 根据测试数据

严重眼睛损伤/眼刺激

根据现有信息无需进行分类。

产品:

结果: 无眼睛刺激
备注: 基于类似物中的数据

成分:

八甲基环四硅氧烷:

种属: 家兔
结果: 无眼睛刺激
备注: 根据测试数据

呼吸或皮肤过敏

皮肤过敏: 根据现有信息无需进行分类。



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呼吸过敏: 根据现有信息无需进行分类。

成分:

八甲基环四硅氧烷:

评估: 不引起皮肤过敏。

测试类型: 豚鼠最大反应试验 (GPMT)

种属: 豚鼠

备注: 根据测试数据

生殖细胞致突变性

根据现有信息无需进行分类。

成分:

八甲基环四硅氧烷:

体外基因毒性

- : 测试类型: 细菌回复突变试验 (AMES)
结果: 阴性
备注: 根据测试数据
- : 测试类型: 致突变性 (体外哺乳动物细胞遗传试验)
结果: 阴性
备注: 根据测试数据
- : 测试类型: 体外染色体畸变试验
结果: 阴性
备注: 根据测试数据
- : 测试类型: 体外哺乳动物细胞姊妹染色单体交换试验
结果: 阴性
备注: 根据测试数据
- : 测试类型: 哺乳动物细胞 (体外) DNA 损伤和修复、程序外 DNA 合成
结果: 阴性
备注: 根据测试数据

体内基因毒性

- : 测试类型: 哺乳动物红细胞微核试验 (体内细胞遗传试验)
种属: 大鼠
染毒途径: 吸入 (蒸气)
结果: 阴性
备注: 根据测试数据
- 测试类型: 啮齿类动物显性致死试验 (生殖细胞) (体内)
种属: 大鼠
染毒途径: 食入
结果: 阴性

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备注: 根据测试数据

生殖细胞致突变性 - 评估 : 动物实验未见任何致突变影响。

致癌性

根据现有信息无需进行分类。

生殖毒性

根据现有信息无需进行分类。

成分:

八甲基环四硅氧烷:

对繁殖性的影响 : 测试类型: 两代繁殖毒性试验
种属: 大鼠, 雄性和雌性
染毒途径: 吸入 (蒸气)
症状: 对生育的影响。
备注: 根据测试数据

对胎儿发育的影响 : 测试类型: 孕期发育毒性试验 (致畸性)
种属: 家兔
染毒途径: 吸入 (蒸气)
症状: 对胎儿发育无影响。
备注: 根据测试数据

生殖毒性 - 评估 : 根据动物试验, 有一些对性功能和生殖的影响的证据。

特异性靶器官系统毒性- 一次接触

根据现有信息无需进行分类。

特异性靶器官系统毒性- 反复接触

根据现有信息无需进行分类。

成分:

八甲基环四硅氧烷:

接触途径: 食入

评估: 在浓度为100 mg/kg体重或以下时, 未在动物身上观察到产生了明显的健康影响。

接触途径: 吸入 (蒸气)

评估: 在浓度为1 mg/l/6h/d或以下时, 未在动物身上观察到产生了明显的健康影响。

接触途径: 皮肤接触

评估: 在浓度为200 mg/kg体重或以下时, 未在动物身上观察到产生了明显的健康影响。

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重复染毒毒性

成分:

八甲基环四硅氧烷:

种属: 大鼠

染毒途径: 食入

备注: 根据测试数据

种属: 大鼠

染毒途径: 吸入 (蒸气)

备注: 根据测试数据

种属: 家兔

染毒途径: 皮肤接触

备注: 根据测试数据

吸入危害

根据现有信息无需进行分类。

产品:

无吸入毒性分类

进一步信息

成分:

八甲基环四硅氧烷:

备注: 为期2年的反复蒸气吸入研究发现, 大鼠反复吸入八甲基环四硅氧烷 (D4) 可影响雌性动物的子宫 (子宫良性腺瘤)。这一研究结果只出现在最高剂量 (700ppm) 使用的情况下。目前研究尚未表明, 这些影响是否可能出现在人类相关途径。根据现有与该物质危害人类健康可能性相关的信息, 加拿大卫生署在2008年的筛选评估中做出以下总结, 八甲基环四硅氧烷尚未以一定的数量或浓度, 者在一定条件下进入环境或尚未对加拿大境内的人类生命或健康构成或可能构成危险 (<http://www.ec.gc.ca/ese-ees/default.asp?lang=En&n=2481B508-1>)。大白鼠反复接触 D4, 导致肝脏内原卟啉积聚。缺乏原卟啉堆积的具体机制信息, 这些研究发现与人类相关性尚不清楚。

12. 生态学信息

生态毒性

成分:

八甲基环四硅氧烷:

对鱼类的毒性

: LC50 (Oncorhynchus mykiss (虹鳟)): > 0.022 mg/l
暴露时间: 96 小时

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备注: 在极限溶解浓度时无毒性

对水蚤和其他水生无脊椎动物的毒性 : EC50 (Daphnia sp. (蚤类)): > 0.015 mg/l
暴露时间: 48 小时
备注: 在极限溶解浓度时无毒性

对藻类的毒性 : EC50: > 0.022 mg/l
暴露时间: 96 小时
备注: 在极限溶解浓度时无毒性
NOEC: 0.022 mg/l
暴露时间: 96 小时
备注: 在极限溶解浓度时无毒性

对鱼类的毒性 (慢性毒性) : NOEC (Oncorhynchus mykiss (虹鳟)): >= 0.0044 mg/l
备注: 在极限溶解浓度时无毒性

对水蚤和其他水生无脊椎动物的毒性 (慢性毒性) : NOEC (Daphnia magna (水蚤)): > 0.0079 mg/l
暴露时间: 21 天
备注: 在极限溶解浓度时无毒性

细菌毒性 : IC50: > 10,000 mg/l
方法: ISO 8192

生态毒理评估
慢性水生毒性 : 可能对水生生物造成长期持续有害影响。

持久性和降解性

成分:

八甲基环四硅氧烷:

生物降解性 : 结果: 不易快速生物降解的。
生物降解性: 3.7 %
暴露时间: 28 天
方法: OECD测试导则310

水中的稳定性 : 水解半衰期: 69.3 - 144 小时 (24.6 ° C) pH值: 7
方法: OECD测试导则111

潜在的生物累积性

成分:

八甲基环四硅氧烷:

正辛醇/水分配系数 : log Pow: 6.48 (25.1 ° C)

DOW CORNING(R) 734 FLOWABLE SEALANT, CLEAR

版本	修订日期:	SDS编号:	前次修订日期: 2015/02/17
1.1	2015/06/09	759034-00002	最初编制日期: 2015/02/17

土壤中的迁移性

无数据资料

其他环境有害作用

成分:

八甲基环四硅氧烷:

PBT和vPvB的结果评价

: 备注: 八甲基环四硅氧烷 (D4) 符合当前欧盟REACH法规附件XIII中规定的持久性, 生物累积性和毒性化学物质 (PBT) 和高持久性和高生物累积性物质 (vPvB) 的判断标准。D4在加拿大被评估并被视为满足PiT标准。但是, D4的化学性质并不类似于已知的PBT物质/vPvB物质。大部分实地考察得来的科学证据表明, 水中和陆地上的食物链中不存在D4的生物放大作用。D4在空气中可以通过与大气中自然产生的羟基自由基发生作用而实现分解。任何空气中未能与羟基自由基发生反应的D4预期将不会从空气中进入水体、陆地或进入生物体内。

13. 废弃处置

处置方法

残余废弃物

: 按当地法规处理。

污染包装物

: 按未用产品处置。
应将空容器送至许可的废弃物处理场所循环利用或处置。
禁止焚烧或用割炬切割空桶。

14. 运输信息

国际法规

陆运 (UNRTDG)

不作为危险品管理

空运 (IATA-DGR)

不作为危险品管理

海运 (IMDG-Code)

不作为危险品管理

按《MARPOL73/78公约》附则II和IBC规则

不适用于供应的产品。

国内法规

GB 6944/12268

DOW CORNING(R) 734 FLOWABLE SEALANT, CLEAR

版本	修订日期:	SDS编号:	前次修订日期: 2015/02/17
1.1	2015/06/09	759034-00002	最初编制日期: 2015/02/17

不作为危险品管理

15. 法规信息

适用法规

固体废物污染环境防治法
危险化学品安全管理条例
工作场所安全使用化学品规定
化学品分类和标签规范 (GB 30000)
职业病防治法
消防法

产品成分在下面名录中的列名信息:

NZIoC	: 所有成分已列名或豁免。
REACH	: 所有成分已 (预) 注册或豁免。
TSCA	: 该产品中的所有成分已在TSCA名录上列名或被豁免。
PICCS	: 所有成分已列名或豁免。
KECI	: 所有成分已列名、豁免或申报。
ENCS/ISHL	: 所有成分都在ENCS (现有化学物质和新化学物质) / ISHL (工业安全与健康法) 名录上列名或因受到豁免而未列入名录。
IECSC	: 所有成分已列名或豁免。
AICS	: 所有成分已列名或豁免。
DSL	: 本产品中的所有成分符合CEPA 1999和NSNR的规定, 且已在加拿大DSL名录上列名或豁免。

名录

AICS (澳大利亚)、DSL (加拿大)、IECSC (中国)、REACH (欧盟)、ENCS (日本)、ISHL (日本)、KECI (韩国)、NZIoC (新西兰)、PICCS (菲律宾)、TCSI (台湾)、TSCA (美国)

16. 其他信息

进一步信息

参考文献 : 内部技术数据, 数据来源于原料 SDS、OECD eChem 门户网站搜索结果, 以及欧洲化学品管理局, <http://echa.europa.eu/>

DOW CORNING(R) 734 FLOWABLE SEALANT, CLEAR

版本	修订日期:	SDS编号:	前次修订日期: 2015/02/17
1.1	2015/06/09	759034-00002	最初编制日期: 2015/02/17

文件左侧双垂直线: 表示对前一版本内容进行了修订。

日期格式 : 年/月/日

缩略语和首字母缩写

DCC OEL	: 道康宁指南
GBZ 2.1-2007	: 工作场所有害因素职业接触限值 - 化学有害因素
DCC OEL / TWA	: 时间加权平均值
GBZ 2.1-2007 / PC-TWA	: 时间加权平均容许浓度

免责声明

据我们所知及确信, 本安全技术说明书(SDS)于发布之日提供的信息均准确无误。此信息只用作安全操作、使用、加工、存储、运输、处置和发布的指南, 不代表任何类型的保证书或质量说明书。除文本规定外, 此表提供的信息只与本 SDS 顶部确定的特定材料有关, 当 SDS 中的材料与任何其他材料混合使用或用于任何流程时, 此表的信息将无效。材料用户应审查在特定环境下所需使用的操作、使用、加工和存储方式相关的信息和建议, 包括用户最终产品 SDS 材料的适用性评估(如适用)。

CN / ZH



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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This SDS has been prepared according to GB/T 16483 and GB/T 17519.

DOW CORNING(R) 734 FLOWABLE SEALANT, CLEAR

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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DOW CORNING(R) 734 FLOWABLE SEALANT, CLEAR

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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This SDS has been prepared according to GB/T 16483 and GB/T 17519.

DOW CORNING(R) 734 FLOWABLE SEALANT, CLEAR

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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DOW CORNING(R) 734 FLOWABLE SEALANT, CLEAR

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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This SDS has been prepared according to GB/T 16483 and GB/T 17519.

DOW CORNING(R) 734 FLOWABLE SEALANT, CLEAR

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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Material Safety Data Sheet**

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Last Revision Date: 2014/06/28

Version No.: GHS 1.6

This SDS has been prepared according to GB/T 16483 and GB/T 17519.

DOW CORNING(R) 734 FLOWABLE SEALANT, CLEAR

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

**Dow Corning (Zhangjiagang) Holding Company
Limited
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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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