按照GB/T 16483、GB/T 17519编制

DOW CORNING

DOW CORNING(R) 744 密封胶 白色

版才 1.6	x 修 20	订日期: 15/07/27	SDS约 7589	扁号: 145-00007	前次修订日期: 2015/06/25 最初编制日期: 2014/11/26	
1. ·	化学品及企业	业标识				
	产品名称		:	DOW CORNING	(R) 744 密封胶 白色	
	产品代码		:	0000000000332	21916	
	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		应商信息 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 邮编:215634	巷市扬子江国际化学工业园区北海路18	;号
	电话号码		:	400 880 7110		
	应急咨询电	话	:	(86 512) 5673204	49	
	电子邮件地	址	:	China.info@dowc	corning.com	
	推荐用途和 推荐用途	限制用途	:	粘接剂,结合剂		

2. 危险性概述

紧急情况概述

外观与性状	: 糊狀物
颜色	: 白色
气味	: 无数据资料
非危险物质或混合物。	

GHS危险性类别

非危险物质或混合物。

GHS标签要素

非危险物质或混合物。

防范说明

: 预防措施:

P271只能在室外或通风良好之处使用。

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物理和化学危险

根据现有信息无需进行分类。

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

未见报道。

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	浓度或浓度范围 (% w/w)
	No.)	
甲基三甲氧基硅烷	1185-55-3	>= 0.1 - < 1
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。
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

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	灭火方法及灭火剂	:	水喷淋 耐醇泡沫 二氧化碳(CO2) 化学干粉		
	不合适的灭火剂	:	未见报道。		
	特别危险性	:	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 金属氧化物		
	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 使用个人防护装备	给式呼吸器进行消防作业。 -。	
6.	泄漏应急处理				
	人员防护措施、防护装备和应 急处置程序	:	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 如能确保安全,可 保留并处置受污染 如果无法围堵严重	5境中。 「采取措施防止进一步的泄漏或溢出。 2的洗涤水。 1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	. :	用惰性材料吸收。 对于大量溢漏来说 材料扩散。如果可 料存放在合适的容 用适当的吸收剂清 地方或国家法规可 排放物时使用的权 本SDS的第13部分列 信息。	 ,进行围堵或采用其他恰当的防漏措施以免以用泵抽排被围堵的材料,则应将回收的材器中。 ;理残留的溢漏材料。 能适用于这种材料的释放和处置,以及清理 ;料和物品。您需要自行判定适用的法规。 和第15部分给出了特定地方或国家要求的相关 	

7. 操作处置与储存

操作处置

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	技术措施	: 请参阅"接触控	2制/个体防护"部分的工程控制。	
	局部或全面通风	: 只能在足够通	风的条件下使用。	
	安全处置注意事项	: 避免与皮肤长; 按照良好的工; 小心防止溢出;	期或反复接触。 业卫生和安全规范进行操作。 、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 按国家特定法:	际识的容器内。 规要求贮存。	
	禁配物	: 请勿与下列产, 强氧化剂	品类型共同储存:	
	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	数值的类型	控制参数 / 容许浓	依据		
	号(CAS No.)	(接触形式)	度			
甲基三甲氧基硅烷	1185-55-3	TWA	50 ppm	DCC OEL		
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 确保足够的通 尽可能降低工-	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。				
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 安全眼镜	穿戴下列个人防护装备: 安全眼镜				
皮肤和身体防护	: 皮肤接触后要	洗净。				
手防护						
备注	: 如长期的或重 洗手。	复的接触,要戴防	厨护手套。 休息前及□	工作结束时		
卫生措施	: 确保洗眼器和	安全淋浴器位于	工作场所附近。			
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		使用时,严禁饮 沾染的衣服清約 上述预防措施你 可能需要额外的	次食及吸烟。 先后方可重新使用。 2针对室温操作,加热使用或气雾剂/喷雾应用 5预防措施。
9. 3	理化特性		
	外观与性状	: 糊狀物	
	颜色	:白色	
	气味	: 无数据资料	
	气味阈值	: 无数据资料	
	pH值	: 不适用	
	熔点/凝固点	: 无数据资料	
	初沸点和沸程	: 不适用	
	闪点	: > 100 ° C 方法: 闭杯	
	蒸发速率	: 不适用	
	易燃性(固体,气体)	: 不属于易燃性;	危险物品
	爆炸上限	: 无数据资料	
	爆炸下限	: 无数据资料	
	蒸气压	: 不适用	
	蒸气密度	: 无数据资料	
	密度/相对密度	: 1.39	
	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	: 不适用			
	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	: 正常条件下税	急定。		
	危险反应	: 在升温条件下 可与强氧化齐 与水或湿空 ^生 在高温下,会	「使用,可形成高危害性化合物(参见第10章)。 〕发生反应。 〔接触生成甲醇。 ≳形成有害的分解产物。		
	应避免的条件	: 未见报道。			
	禁配物	: 氧化剂	: 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	 : 皮肤接触 食入 眼睛接触 			
	急性毒性 根据现有信息无需进行分类。 <u>成分:</u>				
	甲基三甲氧基硅烷: 急性经口毒性	: LD50 (大鼠): 1 评估: 此物质重 备注: 信息来》	2.3 ml/kg 艾混合物无急性口服毒性 原于参考书和文献资料。		
	急性吸入毒性	: LC50 (大鼠): > 暴露时间: 6 久 测试环境: 蒸 [▲] 评估: 此物质 备注: 根据测试	42.1 mg/1 卜时 〔 戊混合物无急性吸入毒性 式数据		
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	急性经皮毒性	: LD50 (家兔): > 9 评估: 此物质或灌 备注: 根据测试数	,500 mg/kg 昆合物无急性皮肤毒性 奴据
	八甲基环四硅氧烷: 急性经口毒性	: LD50 (大鼠): > 4 评估: 此物质或消 备注: 根据测试数	,800 mg/kg 混合物无急性口服毒性 牧据
	急性吸入毒性	: LC50 (大鼠): 297. 暴露时间:4 小时 测试环境:蒸气 评估:此物质或消 备注:根据测试数	5 ppm f 見合物无急性吸入毒性 女据
	急性经皮毒性	: LD50 (家兔): > 2 评估: 此物质或消 备注: 根据测试数	.5ml/kg 混合物无急性皮肤毒性 奴据
	皮肤腐蚀/刺激 根据现有信息无需进行分类。		
	<u>成分:</u> 甲基三甲氧基硅烷: 种属:家兔 结果:无皮肤刺激 备注:根据测试数据		
	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。

<u>成分:</u>

甲基三甲氧基硅烷: 种属:家兔 结果:无眼睛刺激 备注:根据测试数据

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

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呼吸或皮肤过敏

皮肤过敏:根据现有信息无需进行分类。 呼吸过敏:根据现有信息无需进行分类。

成分:

甲基三甲氧基硅烷:

评估:可能或者肯定对人类具有低到中等程度的的皮肤致敏率

SDS编号:

测试类型: Buehler 豚鼠试验 种属: 豚鼠 备注: 根据测试数据

八甲基环四硅氧烷:

评估:不引起皮肤过敏。

测试类型:最大反应试验 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: 甲基三甲氧基硅烷: 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:阳性 备注: 根据测试数据 : 测试类型: 体外染色体畸变试验 结果:阳性 备注: 根据测试数据 : 测试类型:哺乳动物红细胞微核试验(体内细胞遗传试验) 体内基因毒性 种属:小鼠 染毒途径: 食入 结果:阴性 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。

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)

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		结果: 阴性 备注: 根据测试	式数据
		: 测试类型:致9 结果:阴性 备注:根据测试	受性(体外哺乳动物细胞遗传试验)
		: 测试类型:体 结果:阴性 备注:根据测试	卜染色体畸变试验 式数据
		: 测试类型:体9 结果:阴性 备注:根据测证	h哺乳动物细胞姊妹染色单体交换试验 式数据
		 : 测试类型: 哺乳 合成 结果: 阴性 备注: 根据测证 	礼动物细胞(体外)DNA 损伤和修复、程序外 DNA 式数据
1	本内基因毒性	: 测试类型:哺乳 种属:大鼠 染毒途径:吸2 结果:阴性 备注:根据测证	礼动物红细胞微核试验(体内细胞遗传试验) 、(蒸气) 式数据
		测试类型:啮齿 种属:大鼠 染毒途径:食) 结果:阴性 备注:根据测试	5类动物显性致死试验(生殖细胞)(体内) 、 、
2	主殖细胞致突变性 - 评估	: 动物实验未见	任何致突变影响。
3 1	改癌性 根据现有信息无需进行分类。		
: 1	土 須 毋 吐 根据现有信息无需进行分类。		
<u>)</u> 1 2	<u>双分:</u> 甲基三甲氧基硅烷: 付繁殖性的影响	: 测试类型:重复 种属:大鼠,雄 染毒途径:食 症状:对生育 备注:根据测试	夏染毒毒性试验合并生殖/发育毒性筛选试验 性和雌性 C E影响。 式数据

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	对胎儿发育的影响	: 测试类型:重复染毒毒性试验合并生殖/发育毒性筛选 种属:大鼠,雄性和雌性 染毒途径:食入 症状:对胎儿发育无影响。 备注:根据测试数据	试验
	生殖毒性 - 评估	: 根据动物试验,没有对性功能,生殖或发育的不利影	响。
	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	Ō
	特异性靶器官系统毒性- 一汐 根据现有信息无需进行分类。	姜触	
	特异性靶器官系统毒性- 反复 根据现有信息无需进行分类。	安 触	
	<u>成分:</u> 甲基三甲氧基硅烷: 接触途径:吸入(蒸气) 评估:在浓度为1 mg/1/6h/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: 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。	
	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/1/6h/d司	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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DOW CORNING

DOW CORNING(R) 744 密封胶 白色

版本 修订日期: SDS编号: 1.6 2015/07/27 758945-00007

前次修订日期: 2015/06/25 最初编制日期: 2014/11/26

重复染毒毒性

<u>成分:</u>

甲基三甲氧基硅烷:

种属: 大鼠 染毒途径: 吸入(蒸气) 备注: 根据测试数据

种属: 大鼠 染毒途径: 食入 备注: 根据测试数据

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。

进一步信息

<u>成分:</u>

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。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: 甲基三甲氧基硅烷: 对鱼类的毒性

 : LC50 (Oncorhynchus mykiss (虹鳟)):> 100 mg/1 暴露时间:96 小时 方法: OECD测试导则203

按照GB/T 16483、GB/T 17519编制

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	对水溞和其他水生无脊椎动物 的毒性	:	EC50 (Daphnia sp. 暴露时间:48 小时 方法:0ECD测试导则	(溞类)): > 100 mg/1 - 则202
	对藻类的毒性	:	ErC50 (Pseudokiro mg/1 暴露时间:72 小时 方法:OECD测试导师	chneriella subcapitata (绿藻)) :> 100 则201
	细菌毒性	:	EC50: > 100 mg/1 方法: OECD测试导则	1月209
	八甲基环四硅氧烷: 对鱼类的毒性	:	LC50 (Oncorhynchu 暴露时间: 96 小时 备注: 在极限溶解ネ	us mykiss (虹鳟)) :> 0.022 mg/1 。 农度时无毒性
	对水溞和其他水生无脊椎动物 的毒性	:	EC50 (Daphnia sp. 暴露时间:48 小时 备注:在极限溶解ネ	(溞类)):> 0.015 mg/1 衣度时无毒性
	对藻类的毒性	:	EC50: > 0.022 mg/ 暴露时间: 96 小时 备注: 在极限溶解ネ	名 來度时无毒性
			NOEC: 0. 022 mg/1 暴露时间: 96 小时 备注: 在极限溶解ネ	农度时无毒性
	对鱼类的毒性 (慢性毒性)	:	NOEC (Oncorhynchu 备注: 在极限溶解ネ	us mykiss (虹鳟)) :>= 0.0044 mg/1 农度时无毒性
	对水溞和其他水生无脊椎动物 的毒性 (慢性毒性)	:	NOEC (Daphnia mag 暴露时间:21 天 备注:在极限溶解ネ	gna (水溞)):> 0.0079 mg/1 农度时无毒性
	细菌毒性	:	IC50:>10,000 mg 方法:ISO 8192	:/1
	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: 甲基三甲氧基硅烷: 水中的稳定性	:	水解半衰期: 2.2 /	小时 pH值: 7

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按照GB/T 16483、GB/T 17519编制

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	八甲基环四硅氧烷: 生物降解性	: 结果: 不易快速生 生物降解性: 3.7 暴露时间: 28 天 方法: 0ECD测试导	物降解的。 % 则310
	水中的稳定性	: 水解半衰期: 69.3 方法: 0ECD测试导	- 144 小时 (24.6 °C) pH值: 7 则111
	潜在的生物累积性		
	<u>成分:</u>		
	甲基三甲氧基硅烷: 正辛醇/水分配系数	: log Pow:-2.36	
	八甲基环四硅氧烷: 正辛醇/水分配系数	: log Pow: 6.48 (25	.1 ° C)
	土壤中的迁移性 无数据资料		
	其他环境有害作用		
	<u>成分:</u> 八甲基环四硅氧烷: PBT和vPvB的结果评价	: 备注:八甲基环四 XIII中规定的持夕 持久性和高生物累 被评估并被视为滞 已知的PBT物质/vi 明,水中和陆地上 空气中可以通过与 现分解。任何空气 会从空气中进入力	硅氧烷(D4)符合当前欧盟REACH法规附件 5.性,生物累积性和毒性化学物质(PBT)和高 3.积性物质(vPvB)的判断标准。D4在加拿大 5.4足PiT标准。但是,D4的化学性质并不类似于 PvB物质。大部分实地考察得来的科学证据表 5.的食物链中不存在D4的生物放大作用。D4在 5.5气中自然产生的羟基自由基发生作用而实 5.4、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	: 应将空容器送至译 如无另外要求: 持	F可的废弃物处理场所循环利用或处置。 G未使用产品处理。

按照GB/T 16483、GB/T 17519编制

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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 不作为危险品管理

15. 法规信息

适用法规				
职业纳防 宿 法 产品成分在下面 夕 录山的列夕信	:白			
NZIOC	: :	所有成分已列名或豁免。		
REACH	:	所有成分已(预)注册或豁免。		
AICS	:	所有成分已列名或豁免。		
IECSC	:	所有成分已列名或豁免。		
ENCS/ISHL	:	所有成分都在ENCS(现有化学物质和新化学物质)/ ISHL(工 业安全和健康法)名录上列名或因受到豁免而未列入名录。		
PICCS	:	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,且己在加拿 大DSL名录上列名或豁免。		
TSCA	:	该产品中的所有成分已在TSCA名录上列名或被豁免。		
KECI	:	所有成分已列名、豁免或申报。		
TCSI	:	所有成分已列名或豁免。		

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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/

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
DCC OEL / TWA	:	时间加权平均值

(Q) SAR - (定量)结构一活性关系; ANTT - 巴西国家陆路运输机构; ASTM - 美国材料实验协会; bw - 体重; CPR - 受管制产品法规; DIN - 德国标准化学会; ECx - 引起x%效应的浓度; ELx -引起x%效应的负荷率; EmS - 应急措施; ErCx - 引起x%生长效应的浓度; ERG - 应急指南; GHS -全球化学品统一分类和标签制度; IARC - 国际癌症研究机构; IATA - 国际航空运输协会; IBC -国际散装运输危险化学品船舶构造和设备规则; IC50 - 半抑制浓度; ICA0 - 国际民用航空组织; IMDG - 国际海运危险货物; IMO - 国际海事组织; ISO - 国际标准化组织; LC50 - 测试人群半数 致死浓度; LD50 - 测试人群半数致死量(半数致死量); MARPOL - 国际防止船舶造成污染公约; n.o.s. - 未另列明的; Nch - 智利认证; NO(A)EC - 无可见(有害)作用浓度; NO(A)EL - 无可 见(有害)作用剂量; NOELR - 无可见作用负荷率; NOM - 墨西哥安全认证; NTP - 国家毒理学规 划处; OECD - 经济合作与发展组织; OPPTS - 污染防治、杀虫剂和有毒物质办公室; PBT - 持久 性、生物累积性和毒性的物质; REACH - 欧洲议会和理事会关于化学品的注册、评估、授权和限制 法规 (EC) 1907/2006 号; SADT - 自加速分解温度; SDS - 安全技术说明书; TDG - 危险货物运 输; UN - 联合国; UNRTDG - 联合国关于危险货物运输的建议书; vPvB - 高持久性和高生物累积 性物质; WHMIS - 工作场所危险品信息系统; DSL - 加拿大国内化学物质名录; KECI - 韩国现有 化学物质名录; TSCA - 美国有毒物质控制法; AICS - 澳大利亚化学物质名录; IECSC - 中国现有 化学物质名录; ENCS - 日本现有和新化学物质名录; ISHL - 日本工业安全和健康法案; PICCS -菲律宾化学品与化学物质名录; NZIoC - 新西兰化学物质名录; TCSI - 台湾既有化学物质清册; CMR - 致癌、致突变性或生殖毒性物质; GLP - 合格实验室规范

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)。

按照GB/T 16483、GB/T 17519编制

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DOW CORNING(R) 744 ADHESIVE SEALANT WHITE

Version 1.12	Revision Date: 2017/03/22	SDS Number: 837096-00013	Date of last issue: 2017/03/09 Date of first issue: 2014/11/26
1. PRODU	ICT AND COMPANY	IDENTIFICATION	
Produ	uct name	: DOW CORM	NING(R) 744 ADHESIVE SEALANT WHITE
Produ	uct code	: 000000000	003321916

: Silicone elastomer

Manufacturer or supplier's details

Chemical nature

Company	:	Dow Corning (Zhangjiagang) Holding Company Limited			
Address	:	18 Beihai Road, Yangtze River International Chemical In- dustry Park, Zhangjiagang, Jiangsu Province, P.R.C., Post- al Code: 215634			
Telephone	:	400 880 7110			
Emergency telephone number	:	(86 512) 56732049			
E-mail address	:	China.info@dowcorning.com			
Recommended use of the chemical and restrictions on use					
Recommended use	:	Adhesive, binding agents			

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	: paste		
Colour	: white		
Odour	: No data available		
Not a hazardous substance or mixture.			

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Precautionary statements

Prevention:

1

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

Physical and chemical hazards

Not classified based on available information.



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Health hazards

Not classified based on available information.

Environmental hazards

Not classified based on available information.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Methyltrimethoxysilane	1185-55-3	>= 0.1 -< 1
Octamethylcyclotetrasiloxane	556-67-2	>= 0.1 -< 1

4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	None known.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists.



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	Notes t	o physician	:	Treat symptomation	cally and supportively.
5. FI	REFIGI	HTING MEASURES			
	Suitabl	e extinguishing media	:	Water spray Alcohol-resistant f Carbon dioxide (C Dry chemical	oam O2)
	Unsuita media	able extinguishing	:	None known.	
	Specific fighting	c hazards during fire-	:	Exposure to comb	ustion products may be a hazard to health.
	Hazard ucts	ous combustion prod-	:	Carbon oxides Metal oxides Formaldehyde Silicon oxides	
	Specifie ods	c extinguishing meth-	:	Use extinguishing cumstances and t Use water spray t Remove undamag so. Evacuate area.	measures that are appropriate to local cir- ne surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do
	Special for firef	l protective equipment ighters	:	In the event of fire Use personal prot	, wear self-contained breathing apparatus. ective equipment.
6. A	CCIDEN	NTAL RELEASE MEAS	SUF	RES	
	Person tive equ gency p	al precautions, protec- uipment and emer- procedures	:	Use personal prot Follow safe handl ment recommend	ective equipment. ng advice and personal protective equip- ations.
	Enviror	nmental precautions	:	Discharge into the Prevent further lea Retain and dispos Local authorities s cannot be contain	e environment must be avoided. akage or spillage if safe to do so. e of contaminated wash water. hould be advised if significant spillages ed.
	Methoo contain	ls and materials for ment and cleaning up	:	Soak up with inert For large spills, pr ment to keep mate be pumped, store Clean up remainir bent.	absorbent material. ovide dyking or other appropriate contain- erial from spreading. If dyked material can recovered material in appropriate container. og materials from spill with suitable absor-

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items



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			employed in the cleanup of releases. You will need to deter- mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regardin certain local or national requirements.		
7. HANI	DLING AND STORAGE				
Ha	ndling				
Тес	chnical measures	:	See Engineering	measures under EXPOSURE SONAL PROTECTION section.	
Loc	Local/Total ventilation : Use only with add		equate ventilation.		
Adv	vice on safe handling	:	 Do not swallow. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene and safet practice. Take care to prevent spills, waste and minimize release to th environment. 		
Avo	pidance of contact	:	Oxidizing agents		
Sto	orage				
Co	nditions for safe storage	:	Keep in properly labelled containers. Store in accordance with the particular national regulations.		
Ма	terials to avoid	:	 Do not store with the following product types: Strong oxidizing agents 		
Pad	ckaging material	:	: Unsuitable material: None known.		

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of	Control parame- ters / Permissible	Basis
Methyltrimethoxysilane	1185-55-3	TWA	7.5 ppm	DCC OEL
Octamethylcyclotetrasiloxane	556-67-2	TWA	10 ppm	US WEEL

Engineering measures	:	Processing may form hazardous compounds (see section 10)
		Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.



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F	Person	al protective equipme	ent		
Respiratory protection		:	Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines		
	Filte	r type	:	Organic vapour ty	pe
E	Eye/face protection		:	Wear the following Safety glasses	personal protective equipment:
Skin and body protection		:	Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Skin contact must be avoided by using impervious protectiv clothing (gloves, aprons, boots, etc).		
ł	Hand pi Mate	rotection erial	:	Chemical-resistan	t gloves
Remarks		:	For prolonged or repeated contact use protective gloves Choose gloves to protect hands against chemicals depe on the concentration and quantity of the hazardous sub- stance and specific to place of work. Breakthrough time determined for the product. Change gloves often! For sp applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with glove manufacturer. Wash hands before breaks and at the end of workday.		
ł	Hygiene	e measures	:	Ensure that eye flu located close to th When using do no Wash contaminate These precautions at elevated tempe require added prec	ushing systems and safety showers are e working place. t eat, drink or smoke. ed clothing before re-use. s are for room temperature handling. Use rature or aerosol/spray applications may cautions.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	paste
Colour	:	white
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	Not applicable
Melting point/freezing point	:	No data available

according to GB/T 16483 and GB/T 17519



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	Initial b range	oiling point and boiling	:	Not applicable	
	Flash p	point	:	> 100 °C Method: closed c	up
	Evapor	ation rate	:	Not applicable	
	Flamm	ability (solid, gas)	:	Not classified as	a flammability hazard
	Self-igr	nition	:	The substance or substance or mixt	mixture is not classified as pyrophoric. The ure is not classified as self heating.
	Upper flamma	explosion limit / Upper ability limit	:	No data available	
	Lower flamma	explosion limit / Lower ability limit	:	No data available	
	Vapour	pressure	:	Not applicable	
	Relativ	e vapour density	:	No data available	
	Relativ	e density	:	1.39	
	Solubil Wat	ity(ies) er solubility	-	No data available	
	Partitio octano	n coefficient: n- I/water	:	No data available)
	Auto-ig	nition temperature	:	No data available	
	Decom	position temperature	:	No data available)
	Viscosi Visc	ty cosity, dynamic	:	Not applicable	
	Explos	ive properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance of	r mixture is not classified as oxidizing.
	Molecu	ılar weight	:	No data available	
	Particle	e size	:	No data available	

10. STABILITY AND REACTIVITY

Reactivity

: Not classified as a reactivity hazard.

according to GB/T 16483 and GB/T 17519



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	Chemic	cal stability	:	Stable under normal conditions.			
	Possibi tions	lity of hazardous reac-	:	Use at elevated temperatures may form highly hazardous compounds. Can react with strong oxidizing agents. Methyl alcohol is formed upon contact with water or humid air. Hazardous decomposition products will be formed at elevated temperatures.			
	Conditio	ons to avoid	:	None known.			
	Incomp	atible materials	:	Oxidizing agents			
	Hazard Therma	lous decomposition p al decomposition	orod :	oducts : Formaldehyde			
11. 1	гохісо	LOGICAL INFORMAT	ION	l			
	Exposu	ire routes	:	Skin contact Ingestion Eye contact			
	Acute t Not clas	t oxicity ssified based on availa	ble i	information.			
	Compo	onents:					
	Methyl	trimethoxysilane:					
	Acute o	oral toxicity	:	LD50 (Rat): 12.3 Assessment: The icity Remarks: Informa literature.	nl/kg substance or mixture has no acute oral tox- tion taken from reference works and the		
	Acute ir	nhalation toxicity	:	LC50 (Rat): > 42. Exposure time: 6 Test atmosphere: Assessment: The tion toxicity Remarks: On bas	1 mg/l h vapour substance or mixture has no acute inhala- is of test data.		
	Acute d	lermal toxicity	:	LD50 (Rabbit): > 9 Assessment: The toxicity Remarks: On bas	9,500 mg/kg substance or mixture has no acute dermal is of test data.		
	Octame	ethylcyclotetrasiloxar	ie:				

according to GB/T 16483 and GB/T 17519



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		Assessment: T icity Remarks: On b	he substance or mixture has no acute oral tox- basis of test data.
Acute	inhalation toxicity	: LC50 (Rat): 29 Exposure time Test atmosphe Assessment: T tion toxicity Remarks: On b	75 ppm : 4 h are: vapour The substance or mixture has no acute inhala- basis of test data.
Acute	dermal toxicity	: LD50 (Rabbit): Assessment: T toxicity Remarks: On b	> 2.5 ml/kg he substance or mixture has no acute dermal basis of test data.

Skin corrosion/irritation

Not classified based on available information.

Components:

Methyltrimethoxysilane:

Species: Rabbit Result: No skin irritation Remarks: On basis of test data.

Octamethylcyclotetrasiloxane:

Species: Rabbit Result: No skin irritation Remarks: On basis of test data.

Serious eye damage/eye irritation

Not classified based on available information.

Components:

Methyltrimethoxysilane:

Species: Rabbit Result: No eye irritation Remarks: On basis of test data.

Octamethylcyclotetrasiloxane:

Species: Rabbit Result: No eye irritation Remarks: On basis of test data.



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Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Methyltrimethoxysilane:

Assessment: Probability or evidence of low to moderate skin sensitisation rate in humans

Test Type: Buehler Test Species: Guinea pig Result: positive Remarks: On basis of test data.

Octamethylcyclotetrasiloxane:

Assessment: Does not cause skin sensitisation.

Test Type: Maximisation Test Species: Guinea pig Result: negative Remarks: On basis of test data.

Germ cell mutagenicity

Not classified based on available information.

Components:

Methyltrimethoxysilane:

Genotoxicity in vitro :	Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: On basis of test data.
:	Test Type: Mutagenicity (in vitro mammalian cytogenetic test) Result: positive Remarks: On basis of test data.
:	Test Type: Chromosome aberration test in vitro Result: positive Remarks: On basis of test data.
Genotoxicity in vivo :	Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Ingestion Result: negative Remarks: On basis of test data.

according to GB/T 16483 and GB/T 17519

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Gern Asse	n cell mutagenicity - ssment	: Animal testi	: Animal testing did not show any mutagenic effects.					
Octa	methylcyclotetrasilox	ane:						
Geno	otoxicity in vitro	: Test Type: Result: neg Remarks: C	Bacterial reverse mutation assay (AMES) ative In basis of test data.					
		: Test Type: Result: neg Remarks: C	Mutagenicity (in vitro mammalian cytogenetic test) ative In basis of test data.					
		: Test Type: Result: neg Remarks: C	Chromosome aberration test in vitro ative In basis of test data.					
		: Test Type: malian cells Result: neg Remarks: C	In vitro sister chromatid exchange assay in mam- ative Dn basis of test data.					
		: Test Type: thesis in ma Result: neg Remarks: C	DNA damage and repair, unscheduled DNA syn- ammalian cells (in vitro) ative Dn basis of test data.					
Geno	otoxicity in vivo	: Test Type: cytogenetic Species: Ra Application Result: neg Remarks: C	Mammalian erythrocyte micronucleus test (in vivo assay) at Route: inhalation (vapour) ative On basis of test data.					
		Test Type: Species: Ra Application Result: neg Remarks: C	Rodent dominant lethal test (germ cell) (in vivo) at Route: Ingestion ative On basis of test data.					
Gern Asse	Germ cell mutagenicity - Assessment		ng did not show any mutagenic effects.					

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

Components:

Methyltrimethoxysilane:

according to GB/T 16483 and GB/T 17519

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Versio 1.12	on	Revision Date: 2017/03/22	SD 837	S Number: 7096-00013	Date of last issue: 2017/03/09 Date of first issue: 2014/11/26		
Effects on fertility		:	Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test Species: Rat, male and female Application Route: Ingestion Symptoms: No effects on fertility Remarks: On basis of test data.				
E	Effects on foetal develop- ment		:	Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test Species: Rat, male and female Application Route: Ingestion Symptoms: No effects on foetal development Remarks: On basis of test data.			
F	Reproductive toxicity - As- sessment		:	No evidence of adverse effects on sexual function and fertility or on development, based on animal experiments.			
C	Octame	ethylcyclotetrasiloxa	ne:				
E	Effects on fertility		:	Test Type: Two-generation reproduction toxicity study Species: Rat, male and female Application Route: inhalation (vapour) Symptoms: Effects on fertility Remarks: On basis of test data.			
E	Effects on foetal develop- : ment		:	Test Type: Prenatal development toxicity study (teratoge Species: Rabbit Application Route: inhalation (vapour) Symptoms: No effects on foetal development Remarks: On basis of test data.			
F	Reproductive toxicity - As- : sessment		:	Some evidence of adverse effects on sexual function and fertility, based on animal experiments.			

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Components:

Methyltrimethoxysilane:

Exposure routes: inhalation (vapour)

Assessment: No significant health effects observed in animals at concentrations of 1 mg/l/6h/d or less.

Exposure routes: Ingestion

Assessment: No significant health effects observed in animals at concentrations of 100 mg/kg bw or less.



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Octamethylcyclotetrasiloxane:

Exposure routes: Ingestion

Assessment: No significant health effects observed in animals at concentrations of 100 mg/kg bw or less.

Exposure routes: inhalation (vapour) Assessment: No significant health effects observed in animals at concentrations of 1 mg/l/6h/d or less.

Exposure routes: Skin contact Assessment: No significant health effects observed in animals at concentrations of 200 mg/kg bw or less.

Repeated dose toxicity

Components:

Methyltrimethoxysilane:

Species: Rat Application Route: inhalation (vapour) Remarks: On basis of test data.

Species: Rat Application Route: Ingestion Remarks: On basis of test data.

Octamethylcyclotetrasiloxane:

Species: Rat Application Route: Ingestion Remarks: On basis of test data.

Species: Rat Application Route: inhalation (vapour) Remarks: On basis of test data.

Species: Rabbit Application Route: Skin contact Remarks: On basis of test data.

Aspiration toxicity

Not classified based on available information.

Further information

Components:

Octamethylcyclotetrasiloxane:

Remarks: Results from a 2 year repeated vapour inhalation exposure study to rats of octamethylcyclotetrasiloxane (D4) indicate effects (benign uterine adenomas) in the uterus of female animals. This finding occurred at the highest exposure dose (700 ppm) only. Studies to



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date have not demonstrated if these effects occur through pathways that are relevant to humans. Repeated exposure in rats to D4 resulted in protoporphyrin accumulation in the liver. Without knowledge of the specific mechanism leading to the protoporphyrin accumulation the relevance of this finding to humans is unknown.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Methyltrimethoxysilane:	Methyltrimethoxysilane:						
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 110 mg/l Exposure time: 96 h					
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia sp. (water flea)): > 122 mg/l Exposure time: 48 h					
Toxicity to algae	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): > 120 mg/l Exposure time: 72 h Method: OECD Test Guideline 201					
Toxicity to microorganisms	:	EC50: > 100 mg/l Method: OECD Test Guideline 209					
Octamethylcyclotetrasiloxane	e:						
Toxicity to fish	:	LC50 (Cyprinodon variegatus (sheepshead minnow)): > 0.0063 mg/l Exposure time: 336 h Remarks: No toxicity at the limit of solubility					
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Mysidopsis bahia (opossum shrimp)): > 0.0091 mg/l Exposure time: 96 h Remarks: No toxicity at the limit of solubility					
Toxicity to algae	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): > 0.022 mg/l Exposure time: 72 h Remarks: No toxicity at the limit of solubility					
Toxicity to fish (Chronic tox- icity)	:	NOEC (Oncorhynchus mykiss (rainbow trout)): >= 0.0044 mg/l Remarks: On basis of test data. No toxicity at the limit of solubility					
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC (Daphnia magna (Water flea)): >= 0.0079 mg/l Exposure time: 21 d Remarks: On basis of test data. No toxicity at the limit of solubility					



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	Ecoto	kicology Assessment			
	Chronie	c aquatic toxicity	:	May cause long la	asting harmful effects to aquatic life.
	Persis	tence and degradabil	ity		
	Compo	onents:			
	Octam	ethylcyclotetrasiloxa	ne:		
	Biodeg	radability	:	Result: Not readily Biodegradation: 3 Exposure time: 28 Method: OECD T	y biodegradable. 3.7 % 3 d est Guideline 310
	Stabilit	y in water	:	Degradation half I Method: OECD T	ife: 69.3 - 144 h (24.6 °C) pH: 7 est Guideline 111
	Bioaco	cumulative potential			
	Compo	onents:			
	Methyl	trimethoxysilane:			
	Partitio octano	n coefficient: n- I/water	:	log Pow: -2.36	
	Octam	ethylcyclotetrasiloxa	ne:		
	Bioacc	umulation	:	Species: Pimepha Bioconcentration	ales promelas (fathead minnow) factor (BCF): 12,400
	Partitio octano	n coefficient: n- I/water	:	log Pow: 6.48 (25	.1 °C)
	Mobilit No data	t y in soil a available			
	Other a	adverse effects			
	Compo	onents:			
	Octam	ethylcyclotetrasiloxa	ne:		
	Results	s of PBT and vPvB ment	:	Remarks: Octame rent REACh Anne D4 has been asse However, D4 doe substances. The ies shows that D4 trial food webs. D occurring hydroxy that does not deg expected to depos organisms.	ethylcyclotetrasiloxane (D4) meets the cur- ex XIII criteria for PBT and vPvB. In Canada, essed and deemed to meet the PiT criteria. s not behave similarly to known PBT/vPvB weight of scientific evidence from field stud- is not biomagnifying in aquatic and terres- 4 in air will degrade by reaction with naturally d radicals in the atmosphere. Any D4 in air rade by reaction with hydroxyl radicals is not sit from the air to water, to land, or to living



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13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	:	Dispose of in accordance with local regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste han- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

GB 6944/12268 Not regulated as a dangerous good

15. REGULATORY INFORMATION

National regulatory information

Law on the Prevention and Control of Occupational Diseases

The components of this product are reported in the following inventories:

NZIoC	:	All ingredients listed or exempt.
AICS	:	All ingredients listed or exempt.
IECSC	:	All ingredients listed or exempt.
ENCS/ISHL	:	All components are listed on ENCS/ISHL or exempted from inventory listing.
PICCS	:	All ingredients listed or exempt.
DSL	:	All chemical substances in this product comply with the CEPA

according to GB/T 16483 and GB/T 17519



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			1999 and NSNR a Canadian Domest	and are on or exempt from listing on the ic Substances List (DSL).
REACH	I	:	For purchases from ents are currently Please refer to see chases from non-It tion to export into tive/local office.	m Dow Corning EU legal entities, all ingredi- pre/registered or exempt under REACH. ction 1 for recommended uses. For pur- EU Dow Corning legal entities with the inten- EEA please contact your DC representa-
TSCA		:	All chemical subst TSCA Inventory o exemption.	ances in this product are either listed on the r are in compliance with a TSCA Inventory
KECI		:	All ingredients liste	ed, exempt or notified.
TCSI		:	All ingredients liste	ed or exempt.

16. OTHER INFORMATION

Further information

Sources of key data used to compile the Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/
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Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Date format

: yyyy/mm/dd

Full text of other abbreviations

DCC OEL	:	Dow Corning Guide
US WEEL	:	USA. Workplace Environmental Exposure Levels (WEEL)
DCC OEL / TWA	:	Time weighted average
US WEEL / TWA	:	Time weighted average

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dan-

SAFETY DATA SHEET according to GB/T 16483 and GB/T 17519



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gerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC -No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS -Workplace Hazardous Materials Information System

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

CN / EN

Product Information Adhesives



Dow Corning[®] 744 RTV Sealant

FEATURES & BENEFITS

- Non-flowing
- Room temp cure
- High elongation for added stress relief
- No mixing required
- RT cure, no ovens required
- Faster in-line processing with optional heat acceleration
- Added reliability can result from lower cured stress

POTENTIAL USES

• Bonding large components such as batteries or capacitors to circuit boards

APPLICATION METHODS

• Automated or manual needle dispensing systems

One-part, white, non-flowing general purpose moisture cure adhesive

TYPICAL PROPERTIES

Specification Writers: These values are not intended for use in preparing specifications. Please contact your local Dow Corning sales office or your Global Dow Corning Connection before writing specifications on this product.

Property	Unit	Result
Extrusion Rate	g/min	184
Flow Rate - Slump	in	0.2
	cm	0.6
Tack-Free Time at 25°C	minutes	55
Specific Gravity (Cured)	-	1.42
Tensile Strength	psi	395
	MPa	2.7
	kg/cm ²	28
Elongation	%	590
Tensile Modulus	psi	70
	MPa	0.5
	kg/cm ²	5
Tear Strength (Die B)	ppi	30
	N/cm	20
Unprimed Adhesion - Lap Shear to Aluminum	psi	430
	MPa	3
	kg/cm ²	296
Durometer Shore A	-	37
Shelf Life at 25°C	months	12
UL Flammability Classification	NA	94-HB

DESCRIPTION

Dow Corning one-part moisture cure adhesives are generally cured at room temperature and in an environment of 30 to 80 percent relative humidity eliminating the need for curing ovens and the associated costs of energy and capital. Greater than 90 percent of full physical properties should be attained within 24 to 72 hours and varies according to product. Faster manufacturing throughput can be achieved since the adhesive and component can be handled in much shorter times of about 10 to 120 minutes, depending on the adhesive selected and the amount applied. These adhesives are not typically used in highly confined spaces or where a deep section cure is required as they generally cure from the exposed surface inward at a rate of 0.25 inch per seven days. Cure progresses from the outer exposed surface and is dependent on the moisture in the air. Working time is generally a few minutes to an hour for these products until a surface skin begins to form. Mild heat below 60°C (140°F) may be used to increase through-put by accelerating the cure. Dow Corning silicone adhesives retain their original physical and electrical properties over a broad range of operating conditions which enhance the reliability of and service life of electronic devices. The stable chemistry and versatile processing options of these adhesives offer benefits for a variety of electronics needs from increasing component safety and reliability. reducing total cost or increasing the performance envelope of devices or modules. Underwriters Laboratory (UL) 94 recognition is based on minimum thickness requirements. Please consult the UL Online Certifications Directory for the most accurate certification information.

PACKAGING

RTV Adhesives are typically packaged in 100 ml syringes and 330 ml cartridges, 1 kg tubs and pails (18 -25 kg). In general, Dow Corning adhesives/sealants are supplied in nominal 0.45-, 3.6-, 18- and 200-kg (1-, 8-, 40- and 440-lb) containers, net weight. Not all products may be available in all packages and some additional packages, such as a bladder packs or tubes, may be available for certain package sizes.

USABLE LIFE AND STORAGE

For best results, Dow Corning RTV adhesives should be stored at or below the storage temperature listed on the product label. Special precautions must be taken to prevent moisture from contacting these materials. Containers should be kept tightly closed with head or air space minimized. Partially filled containers should be purged with dry air or other gases, such as nitrogen. Shelf life is indicated by the "Use Before" date found on the product label.

PREPARING SURFACES

All surfaces should be thoroughly cleaned and/or degreased with Dow Corning[®] brand OS Fluids, naphtha, mineral spirits, methyl ethyl ketone (MEK) or other suitable solvent. Solvents such as acetone or isopropyl alcohol (IPA) do not tend to remove oils well, and any oils remaining on the surface may interfere with adhesion. Light surface abrasion is recommended whenever possible, because it promotes good cleaning and increases the surface area for bonding. A final surface wipe with acetone or IPA is also useful. Some cleaning techniques may provide better results than others; users should determine the best techniques for their particular applications.

SUBSTRATE TESTING

Due to the wide variety of substrate types and differences in substrate surface conditions, general statements on adhesion and bond strength are impossible. To ensure maximum bond strength on a particular substrate, 100 percent cohesive failure of the adhesive in a lap shear or similar adhesive strength test is desired. This ensures compatibility of the adhesive with the substrate being considered. Also, this test can be used to determine minimum cure time or can detect the presence of surface contaminants such as mold release agents, oils, greases and oxide films.

ADHESION

Dow Corning silicone adhesives are specially formulated to provide unprimed adhesion to many reactive metals, ceramics and glass, as well as to selected laminates, resins and plastics. However, good adhesion cannot be expected on non-reactive metal substrates or non-reactive plastic surfaces such as Teflon®, polyethylene or polypropylene. Special surface treatments such as chemical etching or plasma treatment can sometimes provide a reactive surface and promote adhesion to these types of substrates. Dow Corning® brand Primers can be used to increase the chemical activity on difficult substrates. Poor adhesion may be

experienced on plastic or rubber substrates that are highly plasticized, because the mobile plasticizers act as release agents. Small-scale laboratory evaluation of all substrates is recommended before production trials are made.

USEFUL TEMPERATURE RANGES

For most uses, silicone elastomers should be operational over a temperature range of -45 to 200°C (-49 to 392°F) for long periods of time. However, at both the low- and high temperature ends of the spectrum, behavior of the materials and performance in particular applications can become more complex and require additional considerations. For low-temperature performance, thermal cycling to conditions such as -55°C (-67°F) may be possible, but performance should be verified for your parts or assemblies. Factors that may influence performance are configuration and stress sensitivity of components, cooling rates and hold times, and prior temperature history. At the hightemperature end, the durability of the cured silicone elastomer is time and temperature dependent. As expected, the higher the temperature, the shorter the time the material will remain useable.

SOLVENT EXPOSURE

When liquid or vapor solvent or fuel exposure can occur in an application, the silicone adhesive discussed in this brochure is intended only to survive splash or intermittent exposures. It is not suited for continuous solvent or fuel exposure. Testing should be done to confirm performance of the adhesives under these conditions.

HANDLING PRECAUTIONS PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR

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HEALTH AND ENVIRONMENTAL INFORMATION

To support customers in their product safety needs, Dow Corning has an extensive Product Stewardship organization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available in each area.

For further information, please see our website, dowcorning.com or consult your local Dow Corning representative.

LIMITATIONS

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

LIMITED 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 our products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

Dow Corning's sole warranty is that our products will meet the 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.

TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, DOW CORNING SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY.

DOW CORNING DISCLAIMS LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.

HOW CAN WE HELP YOU TODAY?

Tell us about your performance, design and manufacturing challenges. Let us put our silicon-based materials expertise, application knowledge and processing experience to work for you.

For more information about our materials and capabilities, visit **dowcorning.com**.

To discuss how we could work together to meet your specific needs, email **electronics@dowcorning.com** or go to **dowcorning.com/contactus** for a contact close to your location. Dow Corning has customer service teams, science and technology centers, application support teams, sales offices and manufacturing sites around the globe.

We help you invent the future.TM

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