

# RTV664-J-2S-drum-(495LBS-224.5KG)

版本 *2.0* 打印日期 2013/03/20 填表时间 2012/03/05 000000026578

一 化学品及企业标识

产品名称 : RTV664-J-2S-drum-(495LBS-224.5KG)

产品编号 : 000000026578

产品推荐及限制用途 : 有机硅弹性体

公司名称

Momentive Amer Ind.

地址 : 260 Hudson River Road, 12188

产品安全监管部 : Productstewardship-GC@momentive.com

二危险性概述

GHS分类 : 根据分类标准无需分类

紧急情况概述:

吸入 : 若吸入,对呼吸道有轻微危害。

皮肤 : 可能造成皮肤刺激。

眼睛。 : 导致眼睛发炎和刺激。

吞食 · 若吞食,对健康有轻微危害。

三 成分/组成信息

纯物质/混合物 : 混合物



# RTV664-J-2S-drum-(495LBS-224.5KG)

版本 *2.0* 打印日期 2013/03/20 填表时间 2012/03/05 000000026578

化学性质 : 有机硅混合物

四 急救措施

吸入 : 若吸入,转移患者至空气新鲜处并就医。

皮肤接触 : 用大量肥皂和水清洗。 如果冲洗后症状发生,立即就医。

眼睛接触 : 如果不小心接触到眼睛,立刻用大量的水冲洗,并进行治疗。

不能给无意识的人员口服任何物品。

五 消防措施

合适的灭火剂 : 用泡沫、二氧化碳或干粉来灭火。

特殊的灭火步骤 : 移走可燃源,使用上述列出的灭火剂。通过喷洒水来降低储罐、

建筑物等的温度以阻止火势蔓延。灭火时要站在上风向,如有必

要穿戴合适的呼吸保护器。

六 泄漏应急处理

个人防护措施、防护设备和 : 位于上风向。 使用个人防护设备。

应急程序

环境预防措施 : 无数据

清理方法 : 若大量溢出,使用沙子或沙袋防止溢出,然后放置到空容器中以

备回收。 若少量溢出,用擦或惰性物质浸透吸收,再放置到空

容器中以备回收。



# RTV664-J-2S-drum-(495LBS-224.5KG)

版本 *2.0* 打印日期 2013/03/20 填表时间 2012/03/05 000000026578

防止发生次生危害的预防措 : 消除点火源。

施

## 七 操作处置与储存

#### 操作处置

安全操作注意事项 : 远离火源,禁止吸烟。

避免与含有氮,硫,磷,锡和铅,焊接剂,聚氯乙烯,聚氨酯的

有机物接触,可能导致不完全固化。

分解导致产生氢气。避免升温和与碱接触。

防火防爆注意事项 : 物料会累积静电荷,后者可能会引起电气火花(点火源)。采用正

确的连接及/或接地程序。

存储

储存的基本条件和要求 : 容器密闭,储存于黑暗、阴凉的室内。

储存注意事项 : 无数据

其他数据 : 稳定的

## 八 接触控制/个人防护

工程测量 : 通风良好的区域。

呼吸防护 : 不适用。

手防护 : 建议:橡胶或塑胶手套

眼睛防护 : 带侧防护罩的安全眼镜



# RTV664-J-2S-drum-(495LBS-224.5KG)

版本 *2.0* 打印日期 2013/03/20 填表时间 2012/03/05 000000026578

皮肤和身体防护 : 耐化学物质衣物

穿橡胶防护靴。

养成良好的个人卫生习惯。离开工作场所时要用肥皂水洗手并冲

洗受污染的区域。

# 九 物理特性

形态 : 液体

颜色 : 深蓝

气味 : 微弱的气味

pH : 无数据

熔点 : 不适用。

沸点/沸程 : 不适用。

闪点 : 71 °C

自燃温度 : 无数据

爆炸下限 : 无数据

爆炸上限 : 无数据

饱和蒸气压 : 无数据

密度 : 1.05 g/cm3

溶解性/定性的 : 不溶解的



# RTV664-J-2S-drum-(495LBS-224.5KG)

版本 *2.0* 打印日期 2013/03/20 填表时间 2012/03/05 000000026578

水溶性 : 不溶解的

在其它溶剂中的溶解度 : 无数据

水混溶性 : 不易混溶(<10%)

# 十 稳定性和反应活性

要避免的条件 : 避免接触酸或氧化性物质。

应避免的材料 : 在强酸或碱的催化下会发生聚合或分解。

有害的分解产物 - 易燃氢气 二氧化碳 甲醛。 二氧化硅 该材料含有甲基聚硅氧

烷,当温度接近及高于300°F(150°C)且空气中含有氧气时, 甲基聚硅氧烷能产生甲醛。 甲醛为一种皮肤和呼吸致敏剂、眼 睛和喉咙刺激物、急性毒物并有可能致癌的危险。 Momentive

可以提供甲醛的MSDS。

# 十一 毒性资料

急性经口毒性 : 无数据

急性吸入毒性 : 无数据

急性经皮毒性 : 无数据

皮肤刺激 : 无数据

眼睛刺激 : 无数据

致敏性 : 无数据

进一步的信息 : 无数据



# RTV664-J-2S-drum-(495LBS-224.5KG)

版本 *2.0* 打印日期 2013/03/20 填表时间 2012/03/05 000000026578

# 十二 生态学资料

持久性和降解性 : 无数据

其他的生态信息 : 该产品无生态毒理学数据

# 十三 废弃处置

产品 : 符合地方法规的要求下能被焚烧。

受污染包装 : 作为未用过的产品处置。

## 十四 运输资料

进一步的信息: 远离食品和动物饲料

依照国家和国际的危险品运输法规,该产品未被列为危险品。但由于在特定条件下可能产生氢气,Momentive Performance Materials

建议不空运该产品(IATA-C,IATA-P)。

## 十五 法规资料

名录

 AICS (澳洲化学物质目录)
 y (列入或豁免)

 EINECS (欧洲现有上市化学物质名录)
 y (列入或豁免)

 ENCS (日本现有&新的化学物质目录)
 y (列入或豁免)

 IECSC (中国现有化学物质名录)
 y (列入或豁免)

 KECI (韩国现有化学物质目录)
 y (列入或豁免)

 DSL (加拿大国内化学物质目录)
 y (列入或豁免)



# RTV664-J-2S-drum-(495LBS-224.5KG)

版本 *2.0* 打印日期 2013/03/20 填表时间 2012/03/05 000000026578

NDSL (加拿大非国内化学物质目录) n (未列入) PICCS (菲律宾化学品和化学物质目录) y (列入或豁免)

TSCA (美国毒性物质控制法) y (列入或豁免) 在美国的有毒物质管理条款

(TSCA)的名单上

化学品名录如标记为限量或特殊情况,请联系迈图。

#### 中国适用法律和法规信息

危险化学品安全管理条例,第591号令

GB/T 16483: 《化学品安全技术说明书--内容和项目顺序》

GB15258:《化学品安全标签编写规定》

GB 20576~GB 20602:化学品分类、警示标签和警示性说明安全规范

GB 13690:《化学品分类和危险性公示通则》

GB 12268:《危险货物品名表》

GB 6944:《危险货物分类和品名编号》

GB 190《危险货物包装标志》

GB/T 15098:《危险货物运输包装类别划分原则》

GBZ 2.1《工作场所有害因素职业接触限值第1部分化学有害因素》

# 十六 其他资料

参考资料 : 化学物品ACGIH TLV

化学安全数据手册(化学日报)

预防措施 : 该材料的开发和生产仅作工业用途。如需用于医用或其他特殊用

途,须对产品进行安全测试并确保安全。 切勿用于人体,如植

入,注入或其他可能有体内残留的应用。

其他防范措施 : 其他(地址,电话和传真及其他参考信息)。本处提供的信息是

基于目前的参考,信息和其他数据。本处的描述仅针对普通用

途。对于特殊用途,使用前需准备适当的安全设施。

本文件所列物理特性及其他数值均为该产品的预期平均值,不能

视为担保。



# RTV664-J-2S-drum-(495LBS-224.5KG)

版本 *2.0* 打印日期 2013/03/20 填表时间 2012/03/05 000000026578

## 进一步的信息

此安全技术说明书提供的信息在其发布之日是准确无误的,所给出的信息仅作为安全搬运,储存,运输,处理等的指导,而不能被作为担保和质量指标,此信息仅用于指定的物质而不能用于其它相关的物质,除非特别指明。



# RTV664-J-2S

Version 1.0 Print Date 2013/12/10 Revision Date 2011/05/13 000000026577

# 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name : RTV664-J-2S

Product code : 000000026577

Recommended use of the

chemical and restrictions

on use

: Silicone Elastomer

Company Name : Momentive Performance Materials (Shanghai) Trading Co.,Ltd Street address : No. 227 Li Bing Road Zhang Jiang Hi-Tech Park, Pudong New

Area, Shanghai, 201203, China

Responsible Department : Product Stewardship & Compliance Group

Prepared by : Product Stewardship & Compliance

Telephone : 862138604500 Telefax : 862150793707 Emergency contact : +86-10-5100-3039

Product Stewardship &

Compliance Group

: Productstewardship-GC@momentive.com

#### HAZARDS IDENTIFICATION

GHS Classification : Not classified according to criteria

Summary of emergency:

Inhalation : Little hazard to respiratory tract if inhaled.

Skin : May cause skin irritation.

Eyes. : Cause eyes inflammation and irritation.

Ingestion : Little harmful to health if swallowed.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

Chemical nature : Silicone compound

**Hazardous components** 

Chemical Name CAS-No. EINECS-No. Concentration(%)



## RTV664-J-2S

Version 1.0 Print Date 2013/12/10 Revision Date 2011/05/13 000000026577

		ELINCS No.	
QUARTZ	14808-60-7	238-878-4	30.000 - 60.000
Limestone	471-34-1	207-439-9	< 10.000

#### 4. FIRST AID MEASURES

Inhalation : "If inhaled, move victim to fresh air and seek medical attention."

Skin contact : Wash with plenty of soap and water. Get medical attention if

symptoms occur.

Eye contact : In case of contact with eyes, rinse immediately with plenty of

water and seek medical advice.

Ingestion : Call a physician or poison control center immediately. Only

induce vomiting at the instruction of medical personnel. Never

give anything by mouth to an unconscious person.

Notes to physician

Most important symptoms/effects, acute

and delayed

Treatment is symptomatic and supportive.

## 5. FIRE-FIGHTING MEASURES

Suitable extinguishing

media

: Extinguish with foam, carbon dioxide or dry powder.

Special fire fighting

procedures

: Remove sources of combustibles. Extinguish the fire using firefighting media listed above. Cool surrounding tanks, buildings and so on by spraying with water to prevent the fire extension. The fire fighting should be done from the windward side, with

suitable respiratory protective device, if necessary.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Keep people away from the area. Keep upwind. Remove sources of ignition. Use personal protective equipment.

Environmental precautions : No data available.

Methods for cleaning up : Put in an empty container for recovery after preventing spill by

sand or sandbags,if the amount of spill is large. Put in an empty container for recovery after wiping or soaking up in an



## RTV664-J-2S

Version 1.0 Print Date 2013/12/10 Revision Date 2011/05/13 000000026577

inert material, if the amount of spill is small.

Prevention of secondary

hazards

: Remove sources of ignition.

#### 7. HANDLING AND STORAGE

#### Handling

Advice on safe handling : Keep away from sources of ignition - No smoking.

Avoid contact with organic compounds containing nitrogen, sulfur, phosphorus,tin and lead, soldering flux, polyvinyl chloride, polyurethane as it may lead to incomplete curing.

Advice on protection against fire and explosion

Provide adequate general and local exhaust ventilation.

Material can accumulate static charges which may cause an

electrical spark (ignition source). Use proper bonding and/or

grounding procedures.

#### **Storage**

Requirements for storage

areas and containers

: Store in a dark, cool place indoors, with container tightly

closed.

Further information on

storage conditions

Other data

No data available.

: Stable

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Exposure / Threshold Limit Values**

Components	CAS-No.	Control parameters
QUARTZ	14808-60-7	CN OEL; Update: 02 1995; Highest allowable concentration
		(MAC): 6 mg/m3
		CN OEL; Update: 02 1995; Highest allowable concentration
		(MAC): 3 mg/m3
		CN OEL; Update: 02 1995; Highest allowable concentration
		(MAC): 10 mg/m3
		CN OEL; Update: 02 1995; Highest allowable concentration
		(MAC): 2 mg/m3
		CN OEL; Update: 02 1995; Highest allowable concentration
		(MAC): 10 mg/m3
		CN OEL; Update: 02 1995; Highest allowable concentration
		(MAC): 2 mg/m3
		CN OEL; Update: 03 2008; Time Weighted Average (TWA): 0.3



# RTV664-J-2S

 Version 1.0
 Print Date 2013/12/10

 Revision Date 2011/05/13
 000000026577

	mg/m3 CN OEL; Update: 03 2008; Time Weighted Average (TWA): 0.7 mg/m3 CN OEL; Update: 03 2008; Time Weighted Average (TWA): 0.7 mg/m3 CN OEL; Update: 03 2008; Time Weighted Average (TWA): 1 mg/m3 CN OEL; Update: 03 2008; Time Weighted Average (TWA): 0.2 mg/m3 CN OEL; Update: 03 2008; Time Weighted Average (TWA): 0.5 mg/m3 ACGIH; Update: 01 2010; Time Weighted Average (TWA): 0.025 mg/m3
471-	CN OEL; Update: 02 1995; Highest allowable concentration (MAC): 10 mg/m3 CN OEL; Update: 02 1995; Highest allowable concentration (MAC): 6 mg/m3 CN OEL; Update: 02 1995; Highest allowable concentration (MAC): 6 mg/m3 CN OEL; Update: 02 1995; Highest allowable concentration (MAC): 3 mg/m3 CN OEL; Update: 02 1995; Highest allowable concentration (MAC): 10 mg/m3 CN OEL; Update: 02 1995; Highest allowable concentration (MAC): 2 mg/m3 CN OEL; Update: 02 1995; Highest allowable concentration (MAC): 10 mg/m3 CN OEL; Update: 02 1995; Highest allowable concentration (MAC): 10 mg/m3 CN OEL; Update: 02 1995; Highest allowable concentration (MAC): 2 mg/m3

Engineering measures : Well-ventilated area.

Eyewash bottle with clean water.

Respiratory protection : Not applied

Hand protection : Advice: Rubber or plastics gloves

Eye protection : Safety glasses with side shields

Skin and body protection : Chemical resistant clothing

Wear rubber boots.

Hygiene measures : Avoid contact with eyes, skin, and clothing.

Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the

work site.

Protective measures : Ventilation and other forms of engineering controls are



# RTV664-J-2S

Version 1.0 Print Date 2013/12/10 Revision Date 2011/05/13 000000026577

preferred for controlling exposures. Respiratory protection may be needed for non-routine or emergency situations.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Liquid

Colour : Pale blue

Odour : Faint

pH : No data available.

Melting Point : Not applied

Boiling point/boiling range : Not applied

Flash point : >204 °C

Autoignition temperature : No data available.

Upper explosion limit : Not applied

Vapour pressure : No data available.

Density : 1.28 g/cm3

Solubility/qualitative : Insoluble

Water solubility : Insoluble

Solubility in other solvents : No data available.

Thermal decomposition : No decomposition if stored and applied as directed.

Miscibility with water : immiscible

#### 10. STABILITY AND REACTIVITY

Conditions to avoid : None known.

Materials to avoid : The catalysis of strong acids or bases cause polymerization or

decomposition.



# RTV664-J-2S

Version 1.0 Print Date 2013/12/10 Revision Date 2011/05/13 000000026577

Further information : Combustible

Hazardous decomposition

products

Carbon dioxide Silicon dioxide. Formaldehyde. This product

contains methylpolysiloxanes which can generate

formaldehyde at approximately 300 degrees Fahrenheit (150'C) and above, in atmospheres which contain oxygen. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant, and potential cancer hazard. A

MSDS for formaldehyde is available from Momentive.

#### 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : No data available.

Acute inhalation toxicity : No data available.

Acute dermal toxicity : No data available.

Skin irritation. : No data available.

Eye irritation : No data available.

Sensitization : No data available.

Further information : No data available.

# 12. ECOLOGICAL INFORMATION

Persistence and degradability

Additional ecological

information

: No data available.

: Ecotoxicological data for this product is not available.

# 13. DISPOSAL CONSIDERATIONS

Product : Can be incinerated when in compliance with local regulations.

Contaminated packaging : Dispose of as unused product.



#### RTV664-J-2S

 Version 1.0
 Print Date 2013/12/10

 Revision Date 2011/05/13
 000000026577

#### 14. TRANSPORT INFORMATION

Further Information: This product is not regarded as dangerous goods according to the

national and international regulations on the transport of

dangerous goods.

Keep away from food, foodstuff, acids and bases.

#### 15. REGULATORY INFORMATION

#### **Inventories**

Australia Inventory of Chemical y (positive listing)

Substances (AICS)

EU list of existing chemical substances y (positive listing)
Japan Inventory of Existing & New y (positive listing)

Chemical Substances (ENCS)

China Inventory of Existing Chemical y (positive listing)

Substances

Korea Existing Chemicals Inventory (KECI) y (positive listing)
Canada DSL Inventory y (positive listing)
Canada NDSL Inventory n (Negative listing)
Philippines Inventory of Chemicals and y (positive listing)

Chemical Substances (PICCS)

TSCA list y (positive listing) On TSCA Inventory

For inventories that are marked as quantity restricted or special cases, please contact Momentive.

#### **Applicable Laws and Regulation Information for China**

Regulations on Safety Administration of Hazardous Chemicals, Decree No.591 of the State Council

GB/T 16483: 《Safety data sheet for chemical products - Content and order of sections》

GB 15258: 《General rules for preparation of precautionary label for industrial chemicals

GB 20576~GB 20602: Safety rules for classification, precautionary labelling and precautionary statements of chemicals

GB 13690: 《General rule for classification and hazard communication of chemicals》

GB 12268: 《List of dangerous goods》

GB 6944: 《Classification and code of dangerous goods》

GB 190 《Labels for packages of dangerous goods》

GB/T 15098: 《The principle of classification of transport packaging groups of dangerous goods》



# RTV664-J-2S

 Version 1.0
 Print Date 2013/12/10

 Revision Date 2011/05/13
 000000026577

GBZ 2.1  $\langle$  Occupational Exposure Limits for Hazardous Agents in the Workplace, Part 1, Chemical Hazardous Agents  $\rangle$ 

#### 16. OTHER INFORMATION

Literature Reference : ACGIH TLV for Chemical Substances

Chemical safe administration data book (The Chemical Daily

Co., Ltd.)

Precautions : This material is developed and manufactured for industrial

applications only. For medical or other special applications, use after performing safety testing on the product and confirming safety. Never use for human applications such as implant, impregnation, or where a residue may possibly remain in the

body.

Other precautions : Other (an address, and telephone and fax numbers for

information, references) The information herein is made based on references, information and data available at present. It may be revised when new information is available. The descriptions herein are for normal handling. For special applications, make

safety provisions suitable to them prior to use.

The physical properties and other values indicated on this document are average values expected for the product and are

not guaranteed.

#### **Further information**

Wear suitable protective clothing, gloves and eye/face protection. Ground container and transfer equipment to eliminate static electric sparks.

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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

# —— Product Data ———

# Silicone Rubber for Mold Making RTV664-J

RTV664-J is a two-component, addition cure liquid silicone rubber designed for mold making. This product cures at room temperature to a high strength, high hardness elastic rubber with the addition of curing agents.

## **KEY FEATURES**

- Excellent dimensional stability
- ♦ Excellent release characteristics
- Low shrinkage (room temperature cure)
- ♦ High strength

## **APPLICATIONS**

• Arts, crafts, architecture interiors and in the fabrication of buttons.

#### TYPICAL PROPERTY DATA

UNCURED PROPERTIES				
Base compound		RTV664A-J		
Appearance		White-beige		
Viscosity (23°C)	Pa·s {P}	150 {1,500}		
Curing agent		RTV664B-J		
Appearance		Blue		
Mix ratio wt	%	10		
Work life (25°C)	h	2.0		
Demold time (25°C)	h	24		
<b>CURED PROPERTIES (72</b>	hr @23°C)			
Appearance		Light blue		
Specific gravity (23°C)		1.27		
Hardness (Type A)		60		
Tensile strength	MPa {kgf/cm <sub>2</sub> }	5.4 {55}		
Elongation	%	240		
Tear strength*	N/mm {kgf/cm}	17 {17}		
Linear shrinkage (24h)	%	< 0.2		
Linear shrinkage (72h)	%	< 0.2		

<sup>\*</sup> Crescent

#### **APPLICATION INSTRUCTIONS**

- Mixing; Select a mixing container 4-5 times larger than the volume of silicone rubber compound to be used. Weigh out silicone rubber base and the appropriate amount of catalyst. With clean tools, thoroughly mix them, scraping the sides and the bottom of the container carefully to produce a homogenous mixture.
- ◆ Deaeration; Air entrapped during mixing should be removed to eliminate voids in the cured rubber. Expose the mixed material to a vacuum of about 20mm of mercury. The material will expand, crest, and recede to about the original level as the bubbles break. Degassing is usually complete about two minutes after frothing ceases.
- ♦ Curing; These products will cure sufficiently in 24 hours at 25°C. To achieve faster cure speeds, elevated temperatures may be used.
- ♦ Caution; These products will cure in contact with most clean and dry surfaces. However certain materials, such as butyl and chlorinated rubber, sulfur-containing materials, amines and certain metal soap-cured RTV silicone rubber compounds can cause cure inhibition.

#### HANDLING AND SAFETY

- Wear eye protection when handling uncured rubber as it can irritate eyes. In case of eye contact, immediately flush eyes well with water and contact a physician.
- Adequate ventilation must be maintained in the work place at all times.
- Extended contact with the skin may cause irritation and should be avoided.

#### **STORAGE**

- ♦ Store in a cool, dry, dark place.
- ♦ Keep out of the reach of children.

Issued May. 2004

#### FOR INDUSTRIAL USE ONLY

It is the responsibility of the user to determine the suitability of any Momentive Performance Materials Japan product for any intended application. NEVER USE ANY MOMENTIVE PERFORMANCE MATERIALS JAPAN PRODUCT FOR IMPLANTATION OR INJECTION INTO THE HUMAN BODY. Specifications are available by contacting Momentive Performance Materials Japan. Typical property data values should not be used as specifications. Inasmuch as Momentive Performance Materials Japan LLC has no control over the use to which others may put the material, it does not guarantee that the same results as those described herein will be obtained. Each user of the material should make his own tests to determine the suitability of the material for his own particular use. Statements concerning possible or suggested uses of the materials described herein are not to be construed as constituting a license under any Momentive Performance Materials Japan patent covering use or as recommendations for use of such materials in the infringement of any patent. Material Safety Data Sheets are available upon request from Momentive Performance Materials Japan. The contents of this catalog are subject to change without notice. No part of this data may be reproduced without the prior approval of Momentive Performance Materials Japan.



## **Momentive Performance Materials Japan LLC**

http://www.momentive.com

Technical Answer Center (Japan): Phone: +81-276-20-6182 FAX: +81-276-31-6259 Tokyo Head Office: Phone: +81-3-5544-3111 FAX: +81-3-5544-3122