

SAFETY DATA SHEET

FOR INDUSTRIAL USE ONLY

RTV615

Section 1. Product and company identification

Product name : RTV615

:
, ,**Section 2. Hazards identification**Classification of the substance or mixture : TOXIC TO REPRODUCTION - Category 1A
TOXIC TO REPRODUCTION - Category 2**GHS label elements**

Hazard pictograms

:



Signal word

:

Danger

Hazard statements

:

H360F May damage fertility.

H361d Suspected of damaging the unborn child.

Precautionary statements

General

:

Not applicable.

Prevention

:

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Use personal protective equipment as required.

Response

:

IF exposed or concerned:

Get medical attention.

Storage

:

Store locked up.

Disposal

:

P501 Dispose of contents and container in accordance with all local, regional, national and international regulations.

Other hazards which do not result in classification

:

None known.

Section 3. Composition/information on ingredients

Substance/mixture

:

Mixture

Chemical name

:

Not available

INVESTIGATION REPORT

DATE: 10/10/1948

BY: [illegible]

TO: [illegible]

FROM: [illegible]

DATE: 10/10/1948

RE: [illegible]

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18. [illegible]
19. [illegible]

20. [illegible]

Hazardous ingredients	% by weight	CAS number
Toluene	0.1 - 1	108-88-3

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first aid personnel** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

- Suitable extinguishing media** : Use dry chemical, CO₂, alcohol-resistant foam or water spray (fog).
Unsuitable extinguishing media : water jet
- Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products : Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.
- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Use water spray to keep fire-exposed containers cool. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Firefighters must wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and material for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Note: see section 1 of SDS for emergency contact information and section 13 of SDS for waste disposal.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13 of SDS). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 of SDS for emergency contact information and section 13 of SDS for waste disposal.

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Section 1

Section 2

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Section 3

Section 4

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Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see section 8 of SDS). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Store in original container to avoid contamination with incompatibles. Packages that have contained other materials should not be reused to store SiH siloxanes due to the potential for contamination and resulting unwanted chemical reactions. Keep away from heat, sparks, and open flame. Small amounts of hydrogen may be evolved during shipping and storage, creating a potential for container swelling. Excessive swelling may result in rupturing of the container. Accordingly, if containers swell, vent containers to relieve pressure. Take appropriate precautionary measures when opening to prevent ignition of any hydrogen present.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10 of SDS) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Avoid contact with acidic, basic or oxidizing agents and metallic catalysts like tin soaps and noble metals (Pt, Rh etc.) Recommended storage in original container in a cool, well ventilated place

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Toluene	OSHA PEL 1989 Vacated (1989-03-01) Time Weighted Average (TWA) 375 mg/m³ 100 ppm Short Term Exposure Limit value for a 15-minute reference period expressed in parts per million or in mg/m³. 560 mg/m³ 150 ppm OSHA PEL Z2 (1993-06-30) Time Weighted Average (TWA) 200 ppm Ceiling 300 ppm Acceptable Maximum Peak (AMP) 500 ppm NIOSH REL (1994-06-01)

	Time Weighted Average (TWA) 375 mg/m ³ 100 ppm Short Term Exposure Limit value for a 15-minute reference period expressed in parts per million or in mg/m³. 560 mg/m³ 150 ppm ACGIH TLV (2006-11-17) Time Weighted Average (TWA) 20 ppm
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- Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Skin protection

- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If exposure limits are exceeded or respiratory irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Supplied air respirators may be required for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA regulations (see 29CFR 1910.134). Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance

Physical state	: Liquid
Color	: colorless.
Odor	: Faint odor.
Odor threshold	: Not available
pH	: Not available
Melting point	: Not applicable.
Boiling point	: Not available
Flash point	: > 121 °C (249.80 °F)
Burning time	: Not available
Burning rate	: Not available
Evaporation rate	: 1
Flammability (solid, gas)	: Not available
Lower and upper explosive (flammable) limits	: Lower: Not available Upper: Not available
Vapor pressure	: Negligible
Vapor density	: 1.0 [Air = 1]
Relative density	: 0.99
Density	: 0.99 g/cm3
Solubility	: Soluble in toluene
Solubility in water	: Insoluble
Partition coefficient: n-octanol/water	: Not available
Auto-ignition temperature	: Not applicable.
Decomposition temperature	: Not available
SADT	: Not available
Viscosity	: Dynamic: Not available Kinematic: Not available
Volatile organic content	: < 1 % (w/w) 137 g/l

Other information

No additional information.

Section 10. Stability and reactivity

Reactivity	: Stable under normal conditions.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Product generates flammable gas on contact with acids, bases or

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oxidizing substances.

Incompatible materials : Evolves hydrogen on contact with acids, alkalis, alcohols, powdered metals or, as the case may be, metal oxides.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Conclusion/Summary : Not determined

Irritation/Corrosion

Conclusion/Summary

Skin : Not determined

eyes : Not determined

Respiratory : Not determined

Sensitization

Conclusion/Summary

Skin : Not determined

Respiratory : Not determined

Mutagenicity

Conclusion/Summary : Not determined

Carcinogenicity

Conclusion/Summary : Not determined

Reproductive toxicity

Conclusion/Summary : Not determined

Teratogenicity

Conclusion/Summary : Not determined

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Toluene	Category 3		Respiratory tract irritation Narcotic effects

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Toluene	Category 1		central nervous system (CNS)
	Category 2		kidneys liver heart

1. The first part of the document is a list of names and addresses of the members of the committee. The names are listed in alphabetical order, and the addresses are listed in the order in which they were received.

2. The second part of the document is a list of the names and addresses of the members of the committee who have been elected to the office of the secretary. The names are listed in alphabetical order, and the addresses are listed in the order in which they were received.

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Mr. John O. Olson	9090 Willow St., New York, N.Y.
Mr. William P. Peterson	9191 Hickory St., New York, N.Y.
Mr. Charles Q. Quinn	9292 Maple St., New York, N.Y.
Mr. Thomas R. Reed	9393 Poplar St., New York, N.Y.
Mr. Harry S. Scott	9494 Sycamore St., New York, N.Y.
Mr. George T. Taylor	9595 Chestnut St., New York, N.Y.
Mr. Frank U. Underhill	9696 Walnut St., New York, N.Y.
Mr. Albert V. Vance	9797 Elm St., New York, N.Y.
Mr. Louis W. Ward	9898 Oak St., New York, N.Y.
Mr. John X. Xanthopoulos	9999 Pine St., New York, N.Y.

Mr. John A. Smith	123 Main St., New York, N.Y.
Mr. James B. Jones	456 Elm St., New York, N.Y.
Mr. Robert C. Brown	789 Oak St., New York, N.Y.
Mr. William D. White	101 Pine St., New York, N.Y.
Mr. Charles E. Green	202 Cedar St., New York, N.Y.
Mr. Thomas F. Black	303 Birch St., New York, N.Y.
Mr. Harry G. Gray	404 Spruce St., New York, N.Y.
Mr. George H. Hall	505 Ash St., New York, N.Y.
Mr. Frank I. Hill	606 Willow St., New York, N.Y.
Mr. Albert J. King	707 Hickory St., New York, N.Y.
Mr. Louis K. Lewis	808 Maple St., New York, N.Y.
Mr. John L. Long	909 Poplar St., New York, N.Y.
Mr. William M. Martin	1010 Sycamore St., New York, N.Y.
Mr. Charles N. Miller	1111 Chestnut St., New York, N.Y.
Mr. Thomas O. Moore	1212 Walnut St., New York, N.Y.
Mr. Harry P. Parker	1313 Elm St., New York, N.Y.
Mr. George Q. Quinn	1414 Oak St., New York, N.Y.
Mr. Frank R. Reed	1515 Pine St., New York, N.Y.
Mr. Albert S. Scott	1616 Cedar St., New York, N.Y.
Mr. Louis T. Taylor	1717 Birch St., New York, N.Y.
Mr. John U. Underhill	1818 Spruce St., New York, N.Y.
Mr. William V. Vance	1919 Ash St., New York, N.Y.
Mr. Charles W. Ward	2020 Willow St., New York, N.Y.
Mr. Thomas X. Xanthopoulos	2121 Hickory St., New York, N.Y.
Mr. Harry Y. Young	2222 Maple St., New York, N.Y.
Mr. George Z. Zerkow	2323 Poplar St., New York, N.Y.
Mr. Frank A. Adams	2424 Sycamore St., New York, N.Y.
Mr. Albert B. Baker	2525 Chestnut St., New York, N.Y.
Mr. Louis C. Clark	2626 Walnut St., New York, N.Y.
Mr. John D. Davis	2727 Elm St., New York, N.Y.
Mr. William E. Evans	2828 Oak St., New York, N.Y.
Mr. Charles F. Fisher	2929 Pine St., New York, N.Y.
Mr. Thomas G. Gibson	3030 Cedar St., New York, N.Y.
Mr. Harry H. Harris	3131 Birch St., New York, N.Y.
Mr. George I. Ingram	3232 Spruce St., New York, N.Y.
Mr. Frank J. Jackson	3333 Ash St., New York, N.Y.
Mr. Albert K. Kelly	3434 Willow St., New York, N.Y.
Mr. Louis L. Lamb	3535 Hickory St., New York, N.Y.
Mr. John M. Mason	3636 Maple St., New York, N.Y.
Mr. William N. Nelson	3737 Poplar St., New York, N.Y.
Mr. Charles O. Olson	3838 Sycamore St., New York, N.Y.
Mr. Thomas P. Peterson	3939 Chestnut St., New York, N.Y.
Mr. Harry Q. Quinn	4040 Walnut St., New York, N.Y.
Mr. George R. Reed	4141 Elm St., New York, N.Y.
Mr. Frank S. Scott	4242 Oak St., New York, N.Y.
Mr. Albert T. Taylor	4343 Pine St., New York, N.Y.
Mr. Louis U. Underhill	4444 Cedar St., New York, N.Y.
Mr. John V. Vance	4545 Birch St., New York, N.Y.
Mr. William W. Ward	4646 Spruce St., New York, N.Y.
Mr. Charles X. Xanthopoulos	4747 Ash St., New York, N.Y.
Mr. Thomas Y. Young	4848 Willow St., New York, N.Y.
Mr. Harry Z. Zerkow	4949 Hickory St., New York, N.Y.
Mr. George A. Adams	5050 Maple St., New York, N.Y.
Mr. Frank B. Baker	5151 Poplar St., New York, N.Y.
Mr. Albert C. Clark	5252 Sycamore St., New York, N.Y.
Mr. Louis D. Davis	5353 Chestnut St., New York, N.Y.
Mr. John E. Evans	5454 Walnut St., New York, N.Y.
Mr. William F. Fisher	5555 Elm St., New York, N.Y.
Mr. Charles G. Gibson	5656 Oak St., New York, N.Y.
Mr. Thomas H. Harris	5757 Pine St., New York, N.Y.
Mr. Harry I. Ingram	5858 Cedar St., New York, N.Y.
Mr. George J. Jackson	5959 Birch St., New York, N.Y.
Mr. Frank K. Kelly	6060 Spruce St., New York, N.Y.
Mr. Albert L. Lamb	6161 Ash St., New York, N.Y.
Mr. Louis M. Mason	6262 Willow St., New York, N.Y.
Mr. John N. Nelson	6363 Hickory St., New York, N.Y.
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Mr. Harry R. Reed	6767 Chestnut St., New York, N.Y.
Mr. George S. Scott	6868 Walnut St., New York, N.Y.
Mr. Frank T. Taylor	6969 Elm St., New York, N.Y.
Mr. Albert U. Underhill	7070 Oak St., New York, N.Y.
Mr. Louis V. Vance	7171 Pine St., New York, N.Y.
Mr. John W. Ward	7272 Cedar St., New York, N.Y.
Mr. William X. Xanthopoulos	7373 Birch St., New York, N.Y.
Mr. Charles Y. Young	7474 Spruce St., New York, N.Y.
Mr. Thomas Z. Zerkow	7575 Ash St., New York, N.Y.
Mr. Harry A. Adams	7676 Willow St., New York, N.Y.
Mr. George B. Baker	7777 Hickory St., New York, N.Y.
Mr. Frank C. Clark	7878 Maple St., New York, N.Y.
Mr. Albert D. Davis	7979 Poplar St., New York, N.Y.
Mr. Louis E. Evans	8080 Sycamore St., New York, N.Y.
Mr. John F. Fisher	8181 Chestnut St., New York, N.Y.
Mr. William G. Gibson	8282 Walnut St., New York, N.Y.
Mr. Charles H. Harris	8383 Elm St., New York, N.Y.
Mr. Thomas I. Ingram	8484 Oak St., New York, N.Y.
Mr. Harry J. Jackson	8585 Pine St., New York, N.Y.
Mr. George K. Kelly	8686 Cedar St., New York, N.Y.
Mr. Frank L. Lamb	8787 Birch St., New York, N.Y.
Mr. Albert M. Mason	8888 Spruce St., New York, N.Y.
Mr. Louis N. Nelson	8989 Ash St., New York, N.Y.
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Mr. Albert V. Vance	9797 Elm St., New York, N.Y.
Mr. Louis W. Ward	9898 Oak St., New York, N.Y.
Mr. John X. Xanthopoulos	9999 Pine St., New York, N.Y.

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Aspiration hazard

Product/ingredient name	Result
Toluene	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure : Not available

Potential acute health effects

Eye contact : No known significant effects or critical hazards.
 Inhalation : No known significant effects or critical hazards.
 Skin contact : No known significant effects or critical hazards.
 Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.
 Inhalation : Adverse symptoms may include the following:
 reduced fetal weight
 increase in fetal deaths
 skeletal malformations
 Skin contact : Adverse symptoms may include the following:
 reduced fetal weight
 increase in fetal deaths
 skeletal malformations
 Ingestion : Adverse symptoms may include the following:
 reduced fetal weight
 increase in fetal deaths
 skeletal malformations

Delayed and immediate effects and also chronic effects from short and long term exposure**Short term exposure**

Potential immediate effects : Not available
 Potential delayed effects : Not available

Long term exposure

Potential immediate effects : Not available
 Potential delayed effects : Not available

Potential chronic health effects

Conclusion/Summary : Not determined
 General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : Suspected of damaging the unborn child.
 Developmental effects : No known significant effects or critical hazards.
 Fertility effects : May damage fertility.

Numerical measures of toxicity**Acute toxicity estimates**

Not available

Section 12. Ecological information

Ecotoxicity

Conclusion/Summary : Not available

Persistence/degradability

Conclusion/Summary : Not available

Bioaccumulative potential

Product/ingredient name	Species	Exposure	LogPow	BCF	Potential
Toluene			2.73	-	low

Mobility in soil

Soil/water partition coefficient (KOC) : Not available

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. See Section 8 for information on appropriate personal protective equipment.

Section 14. Transport information

Special precautions for user : This product is not regulated by the DOT for transport within the

Page 3

Page 4

Page 5

Page 6

Page 7

Page 8

Page 9

Page 10

Page 11

Page 12	Page 13	Page 14	Page 15	Page 16	Page 17	Page 18	Page 19	Page 20	Page 21	Page 22	Page 23	Page 24	Page 25	Page 26	Page 27	Page 28	Page 29	Page 30	Page 31	Page 32	Page 33	Page 34	Page 35	Page 36	Page 37	Page 38	Page 39	Page 40	Page 41	Page 42	Page 43	Page 44	Page 45	Page 46	Page 47	Page 48	Page 49	Page 50	Page 51	Page 52	Page 53	Page 54	Page 55	Page 56	Page 57	Page 58	Page 59	Page 60	Page 61	Page 62	Page 63	Page 64	Page 65	Page 66	Page 67	Page 68	Page 69	Page 70	Page 71	Page 72	Page 73	Page 74	Page 75	Page 76	Page 77	Page 78	Page 79	Page 80	Page 81	Page 82	Page 83	Page 84	Page 85	Page 86	Page 87	Page 88	Page 89	Page 90	Page 91	Page 92	Page 93	Page 94	Page 95	Page 96	Page 97	Page 98	Page 99	Page 100
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Page 101

Page 102

Page 103

Page 104

Page 105

Page 106

Page 107

Page 108

Page 109

Page 110

Page 111

Page 112

Page 113

Page 114

Page 115

United States. This product is not prohibited for air shipment by national or international regulations on the transport of dangerous goods. However, as a result of the potential formation of hydrogen gas under certain conditions, Momentive Performance Materials recommends that this product should be shipped using a mode of transportation other than air (IATA-C, IATA-P).

15. Regulatory information

United States

U.S. Federal regulations : **United States - TSCA 12(b) - Chemical export notification:** None required.
United States - TSCA 5(a)2 - Final significant new use rules: Not listed
United States - TSCA 5(a)2 - Proposed significant new use rules: Not listed
United States - TSCA 5(e) - Substances consent order: Not listed

SARA 311/312

Classification : Delayed (chronic) health hazard

California Prop. 65: : WARNING: This product contains less than 0.1% of a chemical known to the State of California to cause cancer., WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Canada

WHMIS (Canada) : Class D-2A: Material causing other toxic effects (Very toxic).

International regulations

International lists : **Australia inventory (AICS):** All components are listed or exempted.
Canada inventory: All components are listed or exempted.
Japan inventory: All components are listed or exempted.
China inventory (IECSC): All components are listed or exempted.
Korea inventory: All components are listed or exempted.
New Zealand Inventory (NZIoC): All components are listed or exempted.
Philippines inventory (PICCS): All components are listed or exempted.
United States inventory (TSCA 8b): All components are listed or exempted.
Taiwan inventory (CSNN): All components are listed or exempted.
Japan inventory: All components are listed or exempted.

Section 16. Other information

Label requirements : May damage fertility.
Hazardous Material Information System III (U.S.A.):

Health	1
Flammability	1
Physical hazards	1

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1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.

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 2. Government has been unable to secure the
 3. necessary funds to carry out its policy.
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Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868. The customer is responsible for determining the PPE code for this material.

Full text of abbreviated H statements : Not applicable.

History

Date of printing : 03/21/2016
Date of issue/Date of revision : 01/25/2016
Date of previous issue : 04/10/2015
Version : 1.1
Prepared by : Product Safety Stewardship
Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
UN = United Nations
References : Not available

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SAFETY DATA SHEET

FOR INDUSTRIAL USE ONLY

RTV615

Section 1. Product and company identification

Product name : RTV615

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Section 2. Hazards identification

Classification of the substance or mixture : TOXIC TO REPRODUCTION - Category 2

GHS label elements

Hazard pictograms



Signal word

: Warning

Hazard statements

: H361f Suspected of damaging fertility.

Precautionary statements

General

: Not applicable.

Prevention

: Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Use personal protective equipment as required.

Response

: IF exposed or concerned:
Get medical attention.

Storage

: Store locked up.

Disposal

: P501 Dispose of contents and container in accordance with all local, regional, national and international regulations.

Other hazards which do not result in classification

: None known.

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Chemical name

: Not available

STATE OF TEXAS

COUNTY OF DALLAS

2004

NOTICE OF PUBLIC HEARING

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Hazardous ingredients	% by weight	CAS number
Octamethylcyclotetrasiloxane	0.1 - 1	556-67-2

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first aid personnel** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

- Suitable extinguishing media** : Use dry chemical, CO₂, alcohol-resistant foam or water spray (fog).
- Unsuitable extinguishing media** : water jet

- Specific hazards arising from the** : In a fire or if heated, a pressure increase will occur and the

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1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

[illegible]

1. *Phragmites australis* (Cav.) Trin. ex Steud. (Common reed)

1. The first step is to identify the problem. In this case, the problem is that the company is not meeting its sales targets.

6. Philip J. Smith, Jr. and Robert L. Smith, "The Role of the
Board of Directors in the Management of a Corporation," *Journal of
Business*, Vol. 4, No. 1, Spring 1931, pp. 1-10.

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific information required.

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

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1. The first step in the process of the investigation is the identification of the problem. This is done by the investigator who is responsible for the study. The investigator must first identify the problem that is being studied. This is done by the investigator who is responsible for the study. The investigator must first identify the problem that is being studied.

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1. Working with a partner, do your own and your partner's
 2. Working with a partner, do your own and your partner's

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19. *Yoghurt* (100 g) 100

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

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1944-1945

the 1990s, the number of people in the United States who are 65 years of age or older has increased by 50% (U.S. Census Bureau, 1997). The number of people aged 65 and older is projected to increase to 20% of the total population by the year 2020 (U.S. Census Bureau, 1997). The number of people aged 65 and older is projected to increase to 20% of the total population by the year 2020 (U.S. Census Bureau, 1997). The number of people aged 65 and older is projected to increase to 20% of the total population by the year 2020 (U.S. Census Bureau, 1997).

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the 1990s, the number of people in the world who are undernourished has declined from 1.1 billion to 800 million. The number of people who are malnourished has declined from 1.5 billion to 1 billion. The number of people who are obese has increased from 100 million to 300 million. The number of people who are overweight has increased from 100 million to 300 million. The number of people who are obese and overweight has increased from 100 million to 300 million. The number of people who are obese and overweight has increased from 100 million to 300 million.

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...and the fact that the *Journal* is a journal of the American Psychological Association, the largest and most influential of the professional organizations in the field of psychology, is a source of great strength and authority. The *Journal* is a journal of the American Psychological Association, the largest and most influential of the professional organizations in the field of psychology, is a source of great strength and authority.

09-01-2008

1. *Journal of the American Medical Association*, 1997; 277: 103-107.

10. *Chlorophyll *a** and *Chlorophyll *b** were determined by the method of Arar and Collins (1971) using a Shimadzu 1601 UV-Visible Spectrophotometer.

- chemical**
Hazardous thermal decomposition products : container may burst.
Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.
- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Use water spray to keep fire-exposed containers cool. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Firefighters must wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and material for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Note: see section 1 of SDS for emergency contact information and section 13 of SDS for waste disposal.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13 of SDS). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 of SDS for emergency contact information and section 13 of SDS for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see section 8 of SDS). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10 of SDS) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection**Control parameters****Occupational exposure limits**

Ingredient name	Exposure limits
Octamethylcyclotetrasiloxane	0 Recommended exposure limit (REL): 5 ppm

- Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Skin protection

- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If exposure limits are exceeded or respiratory irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Supplied air respirators may be required for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA regulations (see 29CFR 1910.134).
Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties**Appearance**

- Physical state** : Liquid
Color : colorless.
- Odor** : Faint odor.
Odor threshold : Not available
pH : Not available
Melting point : Not applicable.
- Boiling point** : Not available
Flash point : 121 °C (249.80 °F)
- Burning time** : Not available
Burning rate : Not available
Evaporation rate : 1
- Flammability (solid, gas)** : Not available
Lower and upper explosive (flammable) limits : Lower: Not available
Upper: Not available
Vapor pressure : Negligible
- Vapor density** : 1.0 [Air = 1]
Relative density : 0.99

Density	:	0.99 g/cm ³
Solubility	:	Toluene
Solubility in water	:	Insoluble
Partition coefficient: n-octanol/water	:	Not available
Auto-ignition temperature	:	Not applicable.
Decomposition temperature	:	Not available
SADT	:	Not available
Viscosity	:	Dynamic: Not available Kinematic: Not available
Volatile organic content	:	< 1 % (w/w) 137 g/l

Other information

No additional information.

Section 10. Stability and reactivity

Reactivity	:	Stable under normal conditions.
Chemical stability	:	The product is stable.
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:	No specific data.
Incompatible materials	:	No specific data.
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information
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Information on toxicological effects**Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Octamethylcyclotetrasiloxane				
	LD50 Oral	Rat	4,800 mg/kg OECD-Guideline 401 (Acute Oral Toxicity)	-
	LC50 Inhalation	Rat	> 12.1 mg/l	4 h
	LC50 Inhalation	Rat	36 mg/l OECD Test Guideline 403	4 h
	LD50 Dermal	Rat	> 2,400 mg/kg OECD Test Guideline 402	-

Conclusion/Summary	:	Not determined
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Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Octamethylcyclotetrasiloxane	Skin OECD- Guideline 404 (Acute Dermal Irritation/C orrosion)	Rat			-
Remarks:	Non-irritating to the skin.				
	eyes OECD- Guideline 405 (Acute Eye Irritation/C orrosion)	Rabbit			-
Remarks:	Non-irritating to the eyes.				

Conclusion/Summary

Skin : Not determined
eyes : Not determined
Respiratory : Not determined

Sensitization

Product/ingredient name	Route of exposure	Species	Result
Octamethylcyclotetrasiloxane	-	Guinea pig	Not sensitizing OECD- Guideline 406 (Skin Sensitisation)

Conclusion/Summary

Skin : Not determined
Respiratory : Not determined

Mutagenicity

Product/ingredient name	Test	Experiment	Result
Octamethylcyclotetrasiloxane	OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)	In vitro	Negative
	Mouse Lymphoma Assay (OECD Guideline 476)	In vitro	Negative
	OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test)	In vivo	Negative

Conclusion/Summary : Not determined

Carcinogenicity

Product/ingredient name	Result	Species	Dose	Exposure
Octamethylcyclotetrasiloxane	Inhalation - OECD 453	Rat - Female	150 mg/kg	24 months
Remarks:	NOAEC			
	Inhalation - OECD 453	Rat - Male	> 700 mg/kg	24 months
Remarks:	NOAEC			

Conclusion/Summary : Not determined

Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
Octamethylcyclotetrasiloxane	-	-	-	Rat	Inhalation: 300 mg/kg OECD 416	-
Remarks:	NOAEL parents					
	-	-	-	Rat	Inhalation: 300 mg/kg OECD 416	-
Remarks:	NOAEL F1					

Conclusion/Summary : Not determined

Teratogenicity

Product/ingredient name	Result	Species	Dose	Exposure
Octamethylcyclotetrasiloxane	- Inhalation OECD Test Guideline 414	Rabbit	500 mg/kg	18 days
Remarks:	NOAEL			
	- Inhalation OECD Test Guideline 414	Rabbit	300 mg/kg	18 days
Remarks:	NOAEL maternity			

Conclusion/Summary : Not determined

Specific target organ toxicity (single exposure)

Not available

Specific target organ toxicity (repeated exposure)

Not available

Aspiration hazard

Not available

Information on the likely routes of exposure : Not available

Potential acute health effects

Eye contact : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.
Inhalation : Adverse symptoms may include the following:
 reduced fetal weight
 increase in fetal deaths
 skeletal malformations
Skin contact : Adverse symptoms may include the following:
 reduced fetal weight
 increase in fetal deaths
 skeletal malformations
Ingestion : Adverse symptoms may include the following:
 reduced fetal weight

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1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.

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1126 JOURNAL OF POST KEYNESIAN ECONOMICS

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1944-1945

1. The first step is to identify the problem. This involves understanding the current situation and the goals that need to be achieved.

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increase in fetal deaths
skeletal malformations

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available
Potential delayed effects : Not available

Long term exposure

Potential immediate effects : Not available
Potential delayed effects : Not available

Potential chronic health effects

Product/ingredient name	Result	Species	Dose	Exposure
Octamethylcyclotetrasiloxane	NOAEC Inhalation	Rat	150 mg/kg OECD 453	24 months
Remarks:	NOAEC			
	NOAEL Dermal	Rabbit	> 1 mg/kg OECD 410	3 weeks
Remarks:	NOAEL			

Conclusion/Summary : Not determined

General : No known significant effects or critical hazards.
Carcinogenicity : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.
Teratogenicity : No known significant effects or critical hazards.
Developmental effects : No known significant effects or critical hazards.
Fertility effects : Suspected of damaging fertility.

Numerical measures of toxicity

Acute toxicity estimates

Not available

Other information

Octamethylcyclotetrasiloxane (D4) Ingestion: Rodents given large doses via oral gavage of Octamethylcyclotetrasiloxane (1600mg/kg/day, 14 days), developed increased liver weights relative to unexposed control animals due to hepatocellular hyperplasia (increased number of liver cells which appear normal) as well as hypertrophy (increased cell size). Inhalation: In inhalation studies, laboratory rodents exposed to Octamethylcyclotetrasiloxane (300 ppm five days/week, 90 days) developed increased liver weights in female animals relative to unexposed control animals. When the exposure was stopped, liver weights returned to normal. Microscopic examination of the liver cells did not show any evidence of pathology. This response in rats, which does not affect the animal's health, is well-documented and widely recognized. It is related to an increase of liver enzymes that metabolize and eliminate a material from the body. The increased liver weight reverses even while the D4 exposure continues. The finding is not adverse, but is considered a natural adaptive change in rats, and does not represent a hazard to humans. Inhalation studies utilizing laboratory rabbits and guinea pigs showed no effects on liver weights. Inhalation exposures typical of industrial usage (5-10 ppm) showed no toxic effects in rodents. Range finding reproductive studies were conducted (whole body inhalation, 70 days prior to mating, through mating, gestation and lactation), with D4. Rats were exposed to 70 and 700 ppm. In the 700 ppm group, there was a statistically significant reduction in mean litter size and in implantation sites. No D4 related clinical signs were observed in the pups and no exposure related pathological findings were found. A two-year, combined chronic/carcinogenicity study, during which rats were

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exposed to D4 by inhalation, data showed a statistically significant increase in a benign uterine tumor in female rats exposed at the highest level--a level much higher than the low levels that consumers or workers may encounter. An expert panel of independent scientists who have reviewed the results of this research concur that the finding seen in the two-year study occurred through a biological pathway that is specific to the rat and is not relevant to humans. Therefore, this observed effect does not indicate a potential health hazard to humans. In developmental toxicity studies, rats and rabbits were exposed to D4 at concentrations up to 700 ppm and 500 ppm, respectively. No teratogenic effects (birth defects) were observed in either study.

Section 12. Ecological information

Ecotoxicity

Conclusion/Summary : Not available

Persistence/degradability

Product/ingredient name	Test	Result	Dose	Inoculum
octamethylcyclotetrasiloxane	310 Ready Biodegradability - CO ₂ in Sealed Vessels (Headspace Test)	3.7 % - 29 d		Activated sludge
Remarks:		Not readily biodegradable.		

Conclusion/Summary : Not available

Bioaccumulative potential

Product/ingredient name	Species	Exposure	LogPow	BCF	Potential
Octamethylcyclotetrasiloxane	Fathead minnow	28 d		12.40	low

Mobility in soil

Soil/water partition coefficient (KOC) : Not available

Other adverse effects : No known significant effects or critical hazards.

Other information

Octamethylcyclotetrasiloxane (D4) meets the current REACH Annex XIII criteria for PBT and vPvB. However, D4 does not behave similarly to known PBT/vPvB substances. The silicones industries interpretation of the available data is that the weight of scientific evidence from field studies shows that D4 is not biomagnifying in aquatic and terrestrial food webs. D4 in air will degrade by reaction with naturally occurring hydroxyl radicals in the atmosphere. Any D4 in air that does not degrade by reaction with hydroxyl radicals is not expected to deposit from the air to water, to land, or to living organisms.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products

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should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. See Section 8 for information on appropriate personal protective equipment.

Section 14. Transport information

Special precautions for user : This product is not regarded as dangerous goods according to the national and international regulations on the transport of dangerous goods.

15.Regulatory information

United States

U.S. Federal regulations : **United States - TSCA 12(b) - Chemical export notification:** One time notification Cyclotetrasiloxane, 2,2,4,4,6,6,8,8-octamethyl-
United States - TSCA 5(a)2 - Final significant new use rules: Not listed
United States - TSCA 5(a)2 - Proposed significant new use rules: Not listed
United States - TSCA 5(e) - Substances consent order: Not listed

SARA 311/312

Classification : Delayed (chronic) health hazard

California Prop. 65: : **WARNING:** This product contains less than 0.1% of a chemical known to the State of California to cause cancer., **WARNING:** This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

Canada

WHMIS (Canada) : Class D-2A: Material causing other toxic effects (Very toxic).

International regulations

International lists : **Australia inventory (AICS):** All components are listed or exempted.
Canada inventory: All components are listed or exempted.
Japan inventory: All components are listed or exempted.
China inventory (IECSC): All components are listed or exempted.
Korea inventory: All components are listed or exempted.

New Zealand Inventory (NZIoC): All components are listed or exempted.
Philippines inventory (PICCS): All components are listed or exempted.
United States inventory (TSCA 8b): All components are listed or exempted.
Taiwan inventory (CSNN): All components are listed or exempted.

Section 16. Other information

Label requirements : Contains octamethylcyclotetrasiloxane which may cause reproductive effects based on animal data.

Hazardous Material Information System III (U.S.A.) :

Health	1
Flammability	1
Physical hazards	0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868. The customer is responsible for determining the PPE code for this material.

Full text of abbreviated H statements : Not applicable.

History

Date of printing : 03/21/2016
Date of issue/Date of revision : 01/25/2016
Date of previous issue : 04/10/2015
Version : 1.2
Prepared by : Product Safety Stewardship
Key to abbreviations : ATE = Acute Toxicity Estimate
 BCF = Bioconcentration Factor
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC = Intermediate Bulk Container
 IMDG = International Maritime Dangerous Goods
 LogPow = logarithm of the octanol/water partition coefficient
 MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
 RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
 UN = United Nations
References : Not available

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