

# SAFETY DATA SHEET

FOR INDUSTRIAL USE ONLY

RTV11

## Section 1. Product and company identification

**Product name** : RTV11  
**Chemical name** : Tin Catalyst (DBT)

**Manufacturer/Importer** : Momentive Amer Ind.

**Distributor Information** : DC Products Pty Limited  
Unit 117 45 Gilby Road  
Mount Waverley 3149 Australia

**Contact person** : Viren Kumar

**Telephone** : +61 3 95588898

**Emergency telephone number**  
**Supplier** : 61 418 529 118

## Section 2. Hazards identification

**Classification of the substance or mixture** : SKIN CORROSION/IRRITATION - Category 2  
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1  
SKIN SENSITIZATION - Category 1  
GERM CELL MUTAGENICITY - Category 2  
TOXIC TO REPRODUCTION - Category 1B  
TOXIC TO REPRODUCTION - Category 1B  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)  
[Respiratory tract irritation] - Category 3  
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) [immune system] - Category 1

### GHS label elements

#### Hazard pictograms



#### Signal word

#### Hazard statements

: Danger

: H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H317 May cause an allergic skin reaction.  
H341 Suspected of causing genetic defects.  
H360F May damage fertility.  
H360 May damage the unborn child.  
H335 May cause respiratory irritation.  
H372 Causes damage to organs through prolonged or repeated exposure: (immune system)

**Precautionary statements**

<b>General</b>	:	Not applicable.
<b>Prevention</b>	:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves. Wear eye or face protection. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
<b>Response</b>	:	Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. <b>IF INHALED:</b> Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. <b>IF ON SKIN:</b> Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. <b>IF IN EYES:</b> Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.
<b>Storage</b>	:	Store locked up.
<b>Disposal</b>	:	P501 Dispose of contents and container in accordance with all local, regional, national and international regulations.
<b>Other hazards which do not result in classification</b>	:	None known.

**Section 3. Composition/information on ingredients**

<b>Substance/mixture</b>	:	Substance
<b>Chemical name</b>	:	Not available

**CAS number/other identifiers**

<b>CAS number</b>	:	77-58-7
<b>EC number</b>	:	201-039-8

Hazardous ingredients	% by weight	CAS number
Dibutyltin Dilaurate	70 - 100	77-58-7

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

- |                     |   |  |
|---------------------|---|--|
| <b>Eye contact</b>  | : | Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician.   |
| <b>Inhalation</b>   | : | Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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. 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.  |
| <b>Skin contact</b> | : | Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and 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. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.   |
| <b>Ingestion</b>    | : | Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician. 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

- |  |   |   |
|--|---|---|
| <b>Notes to physician</b>                | : | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.   |
| <b>Specific treatments</b>               | : | No specific treatment.  |
| <b>Protection of first aid personnel</b> | : | 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, CO<sub>2</sub>, 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.

<b>Section 6. Accidental release measures</b>
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**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. Do not breathe 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). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. 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 get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. 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
Dibutyltin Dilaurate	<p><b>NIOSH REL (2005-09-30)</b></p> <p><b>OSHA PEL (1993-06-30) Calculated as Sn</b> Time Weighted Average (TWA) 0.1 mg/m<sup>3</sup></p> <p><b>OSHA PEL 1989 Vacated (1989-03-01) Calculated as Sn</b> Time Weighted Average (TWA) 0.1 mg/m<sup>3</sup> Form: Organic</p> <p><b>ACGIH TLV (1996-05-18) Calculated as Sn</b> Time Weighted Average (TWA) 0.1 mg/m<sup>3</sup></p> <p><b>ACGIH TLV (1994-09-01) Calculated as Sn</b> Short Term Exposure Limit (STEL) 0.2 mg/m<sup>3</sup></p>

- Appropriate engineering controls** : Use only with adequate ventilation. 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. Contaminated work clothing should not be allowed out of the workplace. 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. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
- 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.

**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** : 205 °C (401.00 °F) (other methods)
- Flash point** : 191 °C (375.80 °F) (other methods)
- Burning time** : Not available
- Burning rate** : Not available
- Evaporation rate** : Not available

<b>Flammability (solid, gas)</b>	:	Not available
<b>Lower and upper explosive (flammable) limits</b>	:	<b>Lower:</b> Not available <b>Upper:</b> Not available
<b>Vapor pressure</b>	:	Negligible
<b>Vapor density</b>	:	Not available
<b>Relative density</b>	:	1.28
<b>Density</b>	:	1.066 g/cm <sup>3</sup>
<b>Solubility</b>	:	Not available
<b>Solubility in water</b>	:	Slightly Soluble
<b>Partition coefficient: n-octanol/water</b>	:	4.44 @ 20.8 °C (69.44 °F) pH 6.1 (OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method))
<b>Auto-ignition temperature</b>	:	300 °C (572.00 °F)
<b>Decomposition temperature</b>	:	Not available
<b>SADT</b>	:	Not available
<b>Viscosity</b>	:	<b>Dynamic:</b> Not available <b>Kinematic:</b> Not applicable.
<b>Volatile organic content</b>	:	27 g/l

**Other information**

No additional information.

## Section 10. Stability and reactivity

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

## Section 11. Toxicological information

**Information on toxicological effects****Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Dibutyltin Dilaurate	LD50 Oral	Rat	2,071 mg/kg	-
	LC50 Inhalation	Rat	10 mg/l	2.00h
	LD50 Dermal	Rat	750 mg/kg	-

**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
Dibutyltin Dilaurate	Category 3		Respiratory tract irritation

**Specific target organ toxicity (repeated exposure)**

Product/ingredient name	Category	Route of exposure	Target organs
Dibutyltin Dilaurate	Category 1		immune system

**Aspiration hazard**

Not available

**Information on the likely routes of exposure** : Not available

**Potential acute health effects**

**Eye contact** : Causes serious eye damage.  
**Inhalation** : May cause respiratory irritation.  
**Skin contact** : Causes skin irritation. May cause an allergic skin reaction.  
**Ingestion** : May cause burns to mouth, throat and stomach.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Eye contact** : Adverse symptoms may include the following:  
 pain  
 watering  
 redness  
**Inhalation** : Adverse symptoms may include the following:  
 respiratory tract irritation



		coughing reduced fetal weight increase in fetal deaths skeletal malformations
<b>Skin contact</b>	:	Adverse symptoms may include the following: pain or irritation redness blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations
<b>Ingestion</b>	:	Adverse symptoms may include the following: stomach pains 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**

<b>Potential immediate effects</b>	:	Not available
<b>Potential delayed effects</b>	:	Not available

#### **Long term exposure**

<b>Potential immediate effects</b>	:	Not available
<b>Potential delayed effects</b>	:	Not available

### **Potential chronic health effects**

<b>Conclusion/Summary</b>	:	Not determined
<b>General</b>	:	Causes damage to organs through prolonged or repeated exposure: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
<b>Carcinogenicity</b>	:	No known significant effects or critical hazards.
<b>Mutagenicity</b>	:	Suspected of causing genetic defects.
<b>Teratogenicity</b>	:	May damage the unborn child.
<b>Developmental effects</b>	:	No known significant effects or critical hazards.
<b>Fertility effects</b>	:	May damage fertility.

### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Not available

## **Section 12. Ecological information**

### **Ecotoxicity**

<b>Conclusion/Summary</b>	:	Not available
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**Persistence/degradability**

**Conclusion/Summary** : Not available

**Bioaccumulative potential**

Product/ingredient name	Species	Exposure	LogPow	BCF	Potential
Dibutyltindilaurate (DBT)			4.44	-	high

**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.

## Section 14. Transport information

**DOT SHIPPING NAME:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(dibutyltin dilaurate)

**DOT HAZARD CLASS:** 9

**DOT LABEL (S):** 9

**UN/NA NUMBER:** UN3082

**PACKING GROUP:** III

**IMDG SHIPPING NAME:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(dibutyltin dilaurate)

**CLASS:** 9

**IMDG-Labels:** 9

**UN NUMBER:** UN3082

**PACKING GROUP:** III

**EmS No.:** F-A; S-F

**IATA:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(dibutyltin dilaurate)

**CLASS:** 9

ICAO-Labels: 9MI  
 UN NUMBER: UN3082  
 PACKING GROUP: III

Special precautions for user : This substance/preparation meets the criteria of a Marine Pollutant (see IMDG paragraph 2.9.3.3) but is not identified in the IMDG Code (Marpol list). As such, substance/preparation shall be transported as a marine pollutant in accordance with the IMDG code.

## 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(e) - Substances consent order:** Not listed  
**United States - TSCA 5(a)2 - Proposed significant new use rules:** Not listed

### SARA 311/312

Classification : Immediate (acute) health hazard  
 Delayed (chronic) health hazard

California Prop. 65: : None required.

### Canada

WHMIS (Canada) : Class D-1B: Material causing immediate and serious toxic effects (Toxic).

### International regulations

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

## Section 16. Other information

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

Health	2
Flammability	1
Physical hazard	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

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**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

#### Notice to reader

Unless otherwise specified in section 1, Momentive Products are intended for industrial application only. They are not intended for specific medical applications, neither for long-lasting (> 30 days) implantation into the human body, injected or directly ingested, nor for the manufacture of multiple usable contraceptives. Keep out of the reach of children.

#### Further Information

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.

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