



# SAFETY DATA SHEET

AVS AV515  
Revision Number 3

Revision date 07-Sep-2021  
Supersedes Date: 10-Jul-2019

## Section 1: Identification: Product identifier and chemical identity

### Product identifier

Product Name AVS AV515

### Product Code(s)

30804697  
30804697

### Other means of identification

Pure substance/mixture Mixture

### Recommended use of the chemical and restrictions on use

Recommended use Adhesive

Uses advised against No information available

### Details of manufacturer or importer

#### Supplier

Bostik Australia Pty Ltd  
51-71 High Street,  
Thomastown Victoria  
Australia  
Tel: 613 9279-9333  
Fax: 613 9279-9342

ABN: 79 003 893 838

E-mail address au-bostik-sds@bostik.com

### Emergency telephone number

Emergency telephone number 24-hr Emergency: 1800 033 111

## Section 2: Hazard(s) identification

### GHS Classification

Based on available information, this material is classified as hazardous according to criteria of Safe Work Australia

Acute toxicity - Inhalation (Vapors)	Category 4 - (H332)
Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2A - (H319)
Respiratory sensitization	Category 1 - (H334)
Skin sensitization	Category 1 - (H317)
Carcinogenicity	Category 2 - (H351)
Specific target organ toxicity (single exposure)	Category 3 - (H335)
Specific target organ toxicity (repeated exposure)	Category 2 - (H373)

### Label elements

Exclamation mark  
Health hazard

# SAFETY DATA SHEET

AVS AV515  
Revision Number 3

Revision date 07-Sep-2021  
Supersedes Date: 10-Jul-2019



**Signal word**  
Danger

## Hazard statements

H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation  
H332 - Harmful if inhaled  
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled  
H335 - May cause respiratory irritation  
H351 - Suspected of causing cancer  
H373 - May cause damage to organs through prolonged or repeated exposure

## Precautionary Statements - Prevention

P201 - Obtain special instructions before use  
P202 - Do not handle until all safety precautions have been read and understood  
P281 - Use personal protective equipment as required  
P271 - Use only outdoors or in a well-ventilated area  
P264 - Wash face, hands and any exposed skin thoroughly after handling  
P284 - In case of inadequate ventilation wear respiratory protection  
P272 - Contaminated work clothing should not be allowed out of the workplace  
P260 - Do not breathe dust/fume/gas/mist/vapors/spray

## Precautionary Statements - Response

P308 + P313 - IF exposed or concerned: Get medical advice/attention  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P337 + P313 - If eye irritation persists: Get medical advice/attention  
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water  
P362 - Take off contaminated clothing and wash before reuse  
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention  
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

## Precautionary Statements - Storage

P405 - Store locked up  
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

## Precautionary Statements - Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant

## Other hazards which do not result in classification

## Standard for Uniform Scheduling of Medicines and Poisons (SUSMP)

Classified as a scheduled poison according to the Standard for Uniform Scheduling of Medicines and Poisons (SUSMP)

**Poison Schedule Number** S6

## Label requirements in accordance with SUSMP

POISON  
KEEP OUT OF REACH OF CHILDREN  
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

## **Section 3: Composition and information on ingredients, in accordance with Schedule 8**

## Substance

# SAFETY DATA SHEET

AVS AV515  
Revision Number 3

Revision date 07-Sep-2021  
Supersedes Date: 10-Jul-2019

Not applicable

## Mixture

Chemical name	CAS No	Weight-%
Isocyanic acid, polymethylenepolyphenylene ester	9016-87-9	10 - <30
Morpholine, 4,4'-(oxydi-2,1-ethanediyl)bis-	6425-39-4	< 2%
4,4'-Methylenediphenyl diisocyanate	101-68-8	< 1%
Non-hazardous ingredients	Proprietary	Balance

## **Section 4: First aid measures**

**Emergency telephone number** Poisons Information Center, Australia: 13 11 26  
Poisons Information Center, New Zealand: 0800 764 766

### **Description of first aid measures**

**General advice** Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention.

**Inhalation** May cause allergic respiratory reaction. If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Get immediate medical advice/attention.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.

**Skin contact** May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician. Wash off immediately with soap and plenty of water for at least 15 minutes.

**Ingestion** May produce an allergic reaction. Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.

**Self-protection of the first aider** Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. See section 8 for more information. Avoid breathing vapors or mists.

### **Most important symptoms and effects, both acute and delayed**

**Symptoms** May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/or wheezing. Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation. Difficulty in breathing.

### **Indication of any immediate medical attention and special treatment needed**

**Note to physicians** May cause sensitization in susceptible persons. Treat symptomatically.

## **Section 5: Firefighting measures**

### **Suitable extinguishing media**

**Suitable extinguishing media** Water spray, fog or regular foam. Alcohol resistant foam. Dry chemical or CO<sub>2</sub>.

**Unsuitable extinguishing media** No information available.

# SAFETY DATA SHEET

AVS AV515  
Revision Number 3

Revision date 07-Sep-2021  
Supersedes Date: 10-Jul-2019

## Specific hazards arising from the chemical

**Specific hazards arising from the chemical** Product is or contains a sensitizer. May cause sensitization by inhalation and skin contact. May cause sensitization by skin contact.

**Hazardous combustion products** Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>). Hydrogen cyanide. Isocyanates.

## Special protective actions for fire-fighters

**Special protective equipment for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## **Section 6: Accidental release measures**

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid breathing vapors or mists.

**Other information** Refer to protective measures listed in Sections 7 and 8.

**For emergency responders** Use personal protection recommended in Section 8.

### Environmental precautions

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

### Precautions to prevent secondary hazards

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## **Section 7: Handling and storage, including how the chemical may be safely used**

### Precautions for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Provide extract ventilation to points where emissions occur. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Take off contaminated clothing and wash before reuse. Avoid breathing vapors or mists.

**General hygiene considerations** Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and immediately after handling the product.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children. Protect from moisture.

**Recommended storage temperature** Keep at temperatures between 50 and 95 °F / 10 and 35 °C.

# SAFETY DATA SHEET

AVS AV515  
Revision Number 3

Revision date 07-Sep-2021  
Supersedes Date: 10-Jul-2019

**Incompatible materials** Strong acids. Strong bases. Strong oxidizing agents.

This material is a scheduled poison and must be stored, maintained and used in accordance with the relevant regulations

## Section 8: Exposure controls and personal protection

### Control parameters

#### Exposure Limits

Chemical name	Australia
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	0.02 mg/m <sup>3</sup> TWA 0.07 mg/m <sup>3</sup> STEL
4,4'-Methylenediphenyl diisocyanate 101-68-8	0.02 mg/m <sup>3</sup> TWA 0.07 mg/m <sup>3</sup> STEL

OEL as published by Safe Work Australia

### Appropriate engineering controls

**Engineering controls** Showers, eyewash stations, and ventilation systems.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing.

**Hand protection** Wear suitable gloves. Impervious gloves.

**Respiratory protection** Wear a respirator conforming to EN 140 with Type A/P2 filter or better. Organic gases and vapors filter conforming to EN 14387.

**Environmental exposure controls** No information available.

## Section 9: Physical and chemical properties

### Information on basic physical and chemical properties

**Physical state** Liquid  
**Appearance** Very viscous  
**Color** Cream  
**Odor** Slight  
**Odor threshold** No information available

Property	Values	Remarks • Method
<b>pH</b>	No data available	
<b>pH (as aqueous solution)</b>	No data available	
<b>Melting point / freezing point</b>	No data available	
<b>Initial boiling point and boiling range</b>	301 °C	
<b>Flash point</b>	No data available	
<b>Evaporation rate</b>	No data available	
<b>Flammability</b>	Not applicable for liquids .	
<b>Flammability Limit in Air</b>		
<b>Upper flammability or explosive limits</b>	No data available	
<b>Lower flammability or explosive limits</b>	No data available	
<b>Vapor pressure</b>	No data available	
<b>Relative vapor density</b>	No data available	

# SAFETY DATA SHEET

AVS AV515  
Revision Number 3

Revision date 07-Sep-2021  
Supersedes Date: 10-Jul-2019

Relative density	1.03	
Water solubility	Insoluble in water	
Solubility(ies)	No data available	
Partition coefficient	No data available	
Autoignition temperature	>200 °C	
Decomposition temperature	No data available	
Kinematic viscosity	No data available	
Dynamic viscosity	approx 15000 mPa s	@ 20 °C
Explosive properties	No information available	
Oxidizing properties	No information available	
<b>Other information</b>		
Solid content (%)	No information available	
Density	No information available	
VOC Content (%)	0 g/L	SCAQMD Method 304-91

## Section 10: Stability and reactivity

### Reactivity

Reactivity No information available.

### Chemical stability

Stability Stable under normal conditions.

### Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

### Possibility of hazardous reactions

Possibility of hazardous reactions Amines. Alcohols. Acids. Contact with water (moisture) liberates carbon dioxide, which causes pressure increase in closed containers.

### Conditions to avoid

Conditions to avoid Excessive heat. Protect from moisture.

### Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidizing agents.

### Hazardous decomposition products

Hazardous decomposition products May emit toxic fumes under fire conditions. Carbon oxides. Nitrogen oxides (NOx).

## Section 11: Toxicological information

### Acute Toxicity

### Information on likely routes of exposure

#### Product Information

**Inhalation** Specific test data for the substance or mixture is not available. May cause sensitization in susceptible persons. (based on components). May cause irritation of respiratory tract. Harmful by inhalation.

**Eye contact** Specific test data for the substance or mixture is not available. Causes serious eye

# SAFETY DATA SHEET

AVS AV515  
Revision Number 3

Revision date 07-Sep-2021  
Supersedes Date: 10-Jul-2019

irritation. (based on components). May cause redness, itching, and pain.

## Skin contact

Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). May cause sensitization by skin contact. Causes skin irritation.

## Ingestion

Specific test data for the substance or mixture is not available. May cause additional effects as listed under "Inhalation". Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

## Symptoms

Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. Coughing and/ or wheezing. Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes.

## Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (inhalation-dust/mist) 5.02 mg/l

## Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Isocyanic acid, polymethylenepolyphenylene ester	LD50 > 10000 mg/kg (Rattus)	LD 50 > 9400 mg/kg (Oryctolagus cuniculus)	=1.5 mg/L (Rattus) 4 h
Morpholine, 4,4'-(oxydi-2,1-ethanediyl)bis-	LD50 =2025 mg/Kg (Rattus)	LD50 >3000 mg/Kg (Oryctolagus cuniculus)	-
4,4'-Methylenediphenyl diisocyanate	=31600 mg/kg (Rattus) = 9200 mg/kg (Rattus)	LD 50 > 9400 mg/kg (Oryctolagus cuniculus) OECD 402	=1.5 mg/L (Rattus) 4 h

See section 16 for terms and abbreviations

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

### Skin corrosion/irritation

Classification based on data available for ingredients. Causes skin irritation.

Component Information					
Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)					
Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 404: Acute Dermal Irritation/Corrosion	Rabbit				Mild skin irritant

**Serious eye damage/eye irritation** Classification based on data available for ingredients. Causes serious eye irritation.

Component Information					
4,4'-Methylenediphenyl diisocyanate (101-68-8)					
Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405: Acute Eye Irritation/Corrosion	Rabbit	Eye	0.1 mL	24 hours	Non-irritant

**Respiratory or skin sensitization** May cause sensitization by inhalation. May cause sensitization by skin contact.

Component Information			
Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)			
Method	Species	Exposure route	Results

# SAFETY DATA SHEET

AVS AV515  
Revision Number 3

Revision date 07-Sep-2021  
Supersedes Date: 10-Jul-2019

OECD Test No. 406: Skin Sensitization	Guinea pig		No sensitization responses were observed
OECD Test No. 429: Skin Sensitisation: Local Lymph Node Assay	Mouse		sensitizing

4,4'-Methylenediphenyl diisocyanate (101-68-8)			
Method	Species	Exposure route	Results
OECD GD 39	Rat	Inhalation	Sensitizing

**Germ cell mutagenicity** No information available.

**Carcinogenicity** Contains a known or suspected carcinogen. Classification based on data available for ingredients.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	SafeWork Australia	European Union	IARC
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	Carc. 2		Group 3
4,4'-Methylenediphenyl diisocyanate 101-68-8	Carc. 2	Carc. 2	Group 3

**IARC (International Agency for Research on Cancer)**  
Group 3 - Not Classifiable as to Carcinogenicity in Humans

Component Information		
Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)		
Method	Species	Results
OECD Test No. 453: Combined Chronic Toxicity/Carcinogenicity Studies	Rat	Carcinogenic

4,4'-Methylenediphenyl diisocyanate (101-68-8)		
Method	Species	Results
OECD Test No. 453: Combined Chronic Toxicity/Carcinogenicity Studies	Rat	Limited evidence of a carcinogenic effect

**Reproductive toxicity** No information available.

**STOT - single exposure** May cause respiratory irritation.

**STOT - repeated exposure** May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard** Not applicable.

## Section 12: Ecological information

### Ecotoxicity

#### Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Isocyanic acid, polymethylenepolyphenylene ester	ErC50 (72h) >1640 mg/L Algae (scenedesmus)	CL50 (96h) >1000 mg/L (Danio rerio)	-	EC50 (24H) >1000 mg/L Daphnia magna



# SAFETY DATA SHEET

AVS AV515  
Revision Number 3

Revision date 07-Sep-2021  
Supersedes Date: 10-Jul-2019

lene ester 9016-87-9	subspicatus) (OECD 201)			
Morpholine, 4,4'-(oxydi-2,1-ethanediyl) bis- 6425-39-4	EC50 (72h) >100 mg/L Algae (Pseudokirchnerella subcapitata) Static	LC50 (96h) >2150 mg/L (Danio rerio) Static	-	EC50 (48h) >100 mg/L (Daphnia magna) Static
4,4'-Methylenediphenyl diisocyanate 101-68-8	ErC50 (72h) >1640 mg/L Algae (scenedesmus subspicatus) (OECD 201)	>1000 mg/l (Danio rerio)	-	EC50 (24H) >1000 mg/L Daphnia magna

## Persistence and degradability

**Persistence and degradability** No information available.

Component Information			
Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)			
Method	Exposure time	Value	Results
OECD Test No. 302C: Inherent Biodegradability: Modified MITI Test (II)	28 days	0% biodegradation	Not readily biodegradable

4,4'-Methylenediphenyl diisocyanate (101-68-8)			
Method	Exposure time	Value	Results
OECD Test No. 302C: Inherent Biodegradability: Modified MITI Test (II)	28 days	0% biodegradation	Not readily biodegradable

## Bioaccumulative potential

**Bioaccumulation** There is no data for this product.

## Component Information

Chemical name	Partition coefficient
Morpholine, 4,4'-(oxydi-2,1-ethanediyl)bis- 6425-39-4	0.5
4,4'-Methylenediphenyl diisocyanate 101-68-8	4.51

## Mobility

**Mobility in soil** No information available.

**Mobility** No information available.

## Other Adverse Effects

**Other adverse effects** No information available.

## Endocrine Disruptor Information

## Section 13: Disposal considerations

### Disposal methods

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

# SAFETY DATA SHEET

AVS AV515  
Revision Number 3

Revision date 07-Sep-2021  
Supersedes Date: 10-Jul-2019

## Section 14: Transport information

**ADG** Not regulated

**IATA** Not regulated

**IMDG** Not regulated

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
No information available

## Section 15: Regulatory information

### Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National regulations

##### Australia

See section 8 for national exposure control parameters

##### **Standard for Uniform Scheduling of Medicines and Poisons (SUSMP)**

Classified as a scheduled poison according to the Standard for Uniform Scheduling of Medicines and Poisons (SUSMP)

**Poison Schedule Number** S6

##### **National pollutant inventory**

Subject to reporting requirement

Chemical name	National pollutant inventory
4,4'-Methylenediphenyl diisocyanate 101-68-8	10 tonne/yr Threshold category 1 20 MW Threshold category 2b total 60000 MWH Threshold category 2b total 1 tonne/h Threshold category 2a total 25 tonne/yr Threshold category 1a total 400 tonne/yr Threshold category 2a total 2000 tonne/yr Threshold category 2b total

#### International Inventories

**AICS** Listed  
**NZIoC** Not Listed  
**ENCS** Not Listed  
**IECSC** Not Listed  
**KECL** Not Listed  
**PICCS** Not Listed

#### **Legend:**

**AICS** - Australian Inventory of Chemical Substances  
**NZIoC** - New Zealand Inventory of Chemicals  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

#### International Regulations

**The Montreal Protocol on Substances that Deplete the Ozone Layer** Not applicable

**The Stockholm Convention on Persistent Organic Pollutants** Not applicable

# SAFETY DATA SHEET

AVS AV515  
Revision Number 3

Revision date 07-Sep-2021  
Supersedes Date: 10-Jul-2019

The Rotterdam Convention Not applicable

## Europe

### Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

#### **SVHC: Substances of Very High Concern for Authorization:**

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

#### **2015/863/EU - RoHS**

This product does not contain Lead, Cadmium, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-Ethylhexyl) phthalate (DEHP), Benzyl butyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) above the regulated limit mentioned in this regulation

### **Section 16: Any other relevant information**

Prepared By Product Safety & Regulatory Affairs

Revision date 07-Sep-2021

#### **Revision note**

The symbol (\*) in the margin of this SDS indicates that this line has been revised.

### **Key or legend to abbreviations and acronyms used in the safety data sheet**

#### **Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
C	Carcinogen		

#### **Section 11: TOXICOLOGICAL INFORMATION**

LD50 (lethal dose)

#### **Section 12: Ecological information**

EC50 (effective concentration)

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information 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

**End of Safety Data Sheet**