

# Safety Data Sheet

Revision Date 10-Oct-2020

Version 19

Supersedes Date: 04-Nov-2019

## Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product Identifier

**Product code** HPC420  
**Product name** AIR CURE ACTIVATOR MEDIUM

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Recommended use** Paint, Coatings

### 1.3. Details of the supplier of the safety data sheet

*See section 16 for more information*

Valspar Corporation  
Level 4, 2 Burbank Place  
Baulkham Hills, New South Wales 2153

Valspar Corporation  
2-14 Patiki Road, Avondale 1026  
Auckland, New Zealand

For further information, please contact

**E-mail address** [sdshelpdesk@valspareurope.com](mailto:sdshelpdesk@valspareurope.com)

### 1.4. Emergency telephone number

**Australia** +(61)-290372994  
**New Zealand** +(64)-98010034

### Poison control centre phone number

**Australia** 13 11 26  
**New Zealand** 0800 764-766

## Section 2: HAZARDS IDENTIFICATION

### GHS - Classification

Acute toxicity - Inhalation (Vapours)	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin Corrosion/Irritation	Category 3
Serious eye damage/eye irritation	Category 2
Respiratory Sensitisation	Category 1
Skin Sensitisation	Category 1
Specific target organ toxicity (single exposure)	Category 3
Acute aquatic toxicity	Category 3
Chronic Aquatic Toxicity	Category 3
Flammable liquids	Category 2

### Label elements



Signal word

**DANGER**

Contains 2-Pentanone, 4-methyl-, Hexamethylene diisocyanate homopolymer, Cyclohexane, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethyl-, homopolymer, Methyl ethyl ketone, Solvent naphtha, petroleum, light aromatic, 1,2,4-Trimethylbenzene

#### **HAZARD STATEMENTS**

Highly flammable liquid and vapour  
HARMFUL IF INHALED  
Causes mild skin irritation  
Causes serious eye irritation  
May cause allergy or asthma symptoms or breathing difficulties if inhaled  
May cause an allergic skin reaction  
May cause respiratory irritation  
Harmful to aquatic life with long lasting effects  
AUH066 - Repeated exposure may cause skin dryness or cracking

#### **PREVENTION**

Avoid breathing dust/fume/gas/mist/vapours/spray  
Use only outdoors or in a well-ventilated area  
Wash face, hands and any exposed skin thoroughly after handling  
Wear eye/face protection  
In case of inadequate ventilation wear respiratory protection  
Contaminated work clothing should not be allowed out of the workplace  
Wear protective gloves  
Avoid release to the environment  
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
Keep container tightly closed  
Ground/bond container and receiving equipment  
Use explosion-proof electrical/ ventilating/ lighting/ equipment  
Use only non-sparking tools  
Take precautionary measures against static discharge  
Wear protective gloves/protective clothing/eye protection/face protection  
Keep cool

#### **RESPONSE**

Get medical advice/attention if you feel unwell

##### **Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

##### **Skin**

IF ON SKIN: Wash with plenty of soap and water

If skin irritation or rash occurs: Get medical advice/attention

Take off contaminated clothing and wash it before reuse

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower

##### **INHALATION**

IF INHALED: Remove person to fresh air and keep comfortable for breathing

If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

##### **INGESTION**

Do NOT induce vomiting

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

##### **FIRE**

In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction

**STORAGE**

Store in a well-ventilated place. Keep container tightly closed  
Store locked up

**DISPOSAL**

Dispose of contents/container to an approved waste disposal plant

**OTHER HAZARDS**

Not applicable

### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Hexamethylene diisocyanate homopolymer	28182-81-2	50 - 70
2-Pentanone, 4-methyl-	108-10-1	10 - 25
Methyl ethyl ketone	78-93-3	5 - 10
Cyclohexane, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethyl-, homopolymer	53880-05-0	3 - 5
n-Butyl acetate	123-86-4	3 - 5
Solvent naphtha, petroleum, light aromatic	64742-95-6	3 - 5
1,2,4-Trimethylbenzene	95-63-6	1 - 3
Hexamethylene diisocyanate	822-06-0	0.1 - 0.3

*If this section is blank, there are no hazardous components per NOHSC guidelines.*

### Section 4: FIRST AID MEASURES

**4.1. Description of first aid measures****General Advice**

IF exposed or concerned: Get medical advice/attention.

**Eye Contact**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Skin contact**

If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

**INHALATION**

IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

**INGESTION**

Do NOT induce vomiting. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

**4.2. Most important symptoms and effects, both acute and delayed**

**Symptoms** None known.

**4.3. Indication of any immediate medical attention and special treatment needed**

**Note to doctors** Treat symptomatically.

### Section 5: FIRE FIGHTING MEASURES

**5.1. Extinguishing media**

**Suitable Extinguishing Media** Dry chemical, CO2, water spray or alcohol-resistant foam.

**Not to be used for safety reasons:** Strong water jet

### **5.2. Special hazards arising from the substance or mixture**

Burning produces heavy smoke. Fire may produce irritating and/or toxic gases. In the event of fire and/or explosion do not breathe fumes. May cause sensitisation by inhalation. May cause sensitisation by skin contact.

### **5.3. Advice for firefighters**

Wear self-contained breathing apparatus and protective suit. Cool containers with flooding quantities of water until well after fire is out. Do not allow run-off from fire-fighting to enter drains or water courses.

**HAZCHEM Code:** 3YE

## **Section 6: ACCIDENTAL RELEASE MEASURES**

### **6.1. Personal precautions, protective equipment and emergency procedures**

#### **Personal Precautions**

Avoid breathing vapours or mists. Remove all sources of ignition. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas. Take precautionary measures against static discharges.

#### **For emergency responders**

Use personal protection recommended in Section 8.

### **6.2. Environmental precautions**

Do not allow into any sewer, on the ground or into any body of water. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained.

### **6.3. 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**

Dispose of waste product or used containers according to local regulations. Clean with detergents. Avoid solvent cleaners. Take up mechanically, placing in appropriate containers for disposal. Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labelled containers. Clean contaminated surface thoroughly.

### **6.4. Reference to other sections**

See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

## **Section 7: HANDLING AND STORAGE**

### **7.1. Precautions for safe handling**

#### **General Advice**

Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be exposed to any process in which this product is used. Examination of lung function should be carried out on a regular basis on persons spraying this product. This product contains isocyanates. Isocyanates are known to be strong sensitisers. Persons already sensitised to diisocyanates may develop allergic reactions when using this product.

#### **Advice on safe handling**

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Operators should wear anti-static footwear and clothing and floors should be of the conducting type. Use personal protection recommended in Section 8. Never use pressure to empty container. Comply with the health and safety at work laws. Prevent product from entering drains. Vapours are heavier than air and may spread along floors. Vapours may form

explosive mixtures with air. Use only with adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Use only in well-ventilated areas. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded.

### General hygiene considerations

When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Avoid contact with skin, eyes or clothing.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Storage Conditions

Keep/store only in original container. Store in accordance with local regulations. Keep unauthorised personnel away. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Keep container tightly closed in a dry and well-ventilated place. Keep tightly closed in a dry and cool place.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### Exposure Limits

If S\* appears in the OEL table, it indicates this chemical contains a skin notation.

Chemical name	Australia	New Zealand	ACGIH TLV
2-Pentanone, 4-methyl- 108-10-1	TWA: 50 ppm TWA: 205 mg/m <sup>3</sup> STEL: 75 ppm STEL: 307 mg/m <sup>3</sup>	TWA: 50 ppm TWA: 205 mg/m <sup>3</sup> STEL: 75 ppm STEL: 307 mg/m <sup>3</sup>	STEL: 75 ppm TWA: 20 ppm
Methyl ethyl ketone 78-93-3	TWA: 150 ppm TWA: 445 mg/m <sup>3</sup> STEL: 300 ppm STEL: 890 mg/m <sup>3</sup>	TWA: 150 ppm TWA: 445 mg/m <sup>3</sup> STEL: 300 ppm STEL: 890 mg/m <sup>3</sup>	STEL: 300 ppm TWA: 200 ppm
n-Butyl acetate 123-86-4	TWA: 150 ppm TWA: 713 mg/m <sup>3</sup> STEL: 200 ppm STEL: 950 mg/m <sup>3</sup>	TWA: 150 ppm TWA: 713 mg/m <sup>3</sup> STEL: 200 ppm STEL: 950 mg/m <sup>3</sup>	STEL: 150 ppm TWA: 50 ppm
1,2,4-Trimethylbenzene 95-63-6	TWA: 25 ppm TWA: 123 mg/m <sup>3</sup>	TWA: 25 ppm TWA: 123 mg/m <sup>3</sup>	TWA: 25 ppm
Hexamethylene diisocyanate 822-06-0	TWA: 0.02 mg/m <sup>3</sup> STEL: 0.07 mg/m <sup>3</sup>	TWA: 0.02 mg/m <sup>3</sup> dust, mist or vapours STEL: 0.07 mg/m <sup>3</sup> dust, mist or vapour	TWA: 0.005 ppm

#### Biological Limit Values:.

Chemical name	Australia	New Zealand
2-Pentanone, 4-methyl- 108-10-1		2 mg/L urine end of shift MIBK
Methyl ethyl ketone 78-93-3		2 mg/L urine end of shift MEK

### 8.2. Exposure controls

#### Engineering controls

Ensure adequate ventilation, especially in confined areas. Provide local exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits. Dry sanding, flame cutting and/or welding of the dry paint film may give rise to dust and/or hazardous fumes. Under cool dry conditions, it is possible for the isocyanate to remain unreacted in the paint film for up to 30 hours after application. If dry flattening is unavoidable air fed respiratory protective equipment should be used.

#### Personal Protective Equipment

##### Eye/Face Protection

Tight sealing safety goggles.

### **Skin and Body Protection**

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Wear suitable protective clothing. Wear anti-static clothing made of natural fibre or of high temperature resistant synthetic fibre.

### **Hand protection**

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed. Gloves should be replaced regularly and if there is any sign of damage to the glove material. Always ensure that gloves are free from defects and that they are stored and used correctly. The performance or effectiveness of the glove may be reduced by physical / chemical damage and poor maintenance. Wear protective gloves.

### **Respiratory Protection**

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

### **Thermal Protection**

No information available

### **Environmental exposure controls**

Do not allow into any sewer, on the ground or into any body of water  
Local authorities should be advised if significant spillages cannot be contained

## **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

### **9.1. Information on basic physical and chemical properties**

<b>Physical State</b>	Liquid
<b>Appearance</b>	No information available
<b>Odour</b>	Solvent
<b>Colour</b>	Clear
<b>Odour threshold</b>	No information available
<b>PH</b>	No information available
<b>Melting point/freezing point</b>	No information available
<b>Boiling point / boiling range</b>	79.6 °C / 175 °F
<b>Flash Point</b>	-7 °C / 19 °F
<b>Method</b>	
<b>Evaporation Rate</b>	No information available
<b>Flammability (solid, gas)</b>	No information available
<b>Flammability limit in air</b>	
<b>Upper flammability limit:</b>	No information available
<b>Lower flammability limit</b>	No information available
<b>Vapour pressure</b>	No information available
<b>Vapour Density</b>	No information available
<b>Specific gravity</b>	.99
<b>Solubility(ies)</b>	No information available
<b>Partition coefficient</b>	No information available
<b>Autoignition Temperature</b>	No information available
<b>Decomposition temperature</b>	No information available
<b>Kinematic viscosity</b>	No information available
<b>Dynamic viscosity</b>	No information available
<b>Explosive Properties</b>	No information available
<b>Oxidising Properties</b>	No information available

### **9.2. Other information**

**Molecular Weight** No information available

## **Section 10: STABILITY AND REACTIVITY**

### **10.1. Reactivity**

No information available.

## 10.2. Chemical stability

Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

### **Hazardous polymerisation**

None under normal processing.

### **Possibility of hazardous reactions**

None under normal processing.

## 10.4. Conditions to avoid

Heat, flames and sparks.

## 10.5. Incompatible materials

Strong bases. Strong oxidising agents. Strong reducing agents. Copper. Amines.

## 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide (CO<sub>2</sub>).

## **Section 11: TOXICOLOGICAL INFORMATION**

### Information on Toxicological Effects

#### Information on Likely Routes of Exposure

<b>Eye Contact</b>	Causes serious eye irritation.
<b>Skin contact</b>	Causes mild skin irritation. May cause an allergic skin reaction.
<b>INGESTION</b>	Not applicable.
<b>INHALATION</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. HARMFUL IF INHALED.

#### Numerical Measures of Toxicity - Product Information

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

**ATEmix (inhalation-dust/mist)** 1.90 Mg/l

**ATEmix (inhalation-vapour)** 14.00 Mg/l

**UNKNOWN ACUTE TOXICITY** 0% of the mixture consists of ingredient(s) of unknown toxicity.

#### Numerical Measures of Toxicity - Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Hexamethylene diisocyanate homopolymer 28182-81-2	-	-	= 18500 mg/m <sup>3</sup> ( Rat ) 1 h
2-Pentanone, 4-methyl- 108-10-1	= 2080 mg/kg ( Rat )	= 3000 mg/kg ( Rabbit )	= 8.2 mg/L ( Rat ) 4 h
Methyl ethyl ketone 78-93-3	= 2483 mg/kg ( Rat ) = 2737 mg/kg ( Rat )	= 5000 mg/kg ( Rabbit ) = 6480 mg/kg ( Rabbit )	= 11700 ppm ( Rat ) 4 h
Cyclohexane, 5-isocyanato-1-(isocyanatomethyl)- 1,3,3-trimethyl-, homopolymer 53880-05-0	-	-	-
n-Butyl acetate 123-86-4	= 10768 mg/kg ( Rat )	> 17600 mg/kg ( Rabbit )	= 390 ppm ( Rat ) 4 h
Solvent naphtha, petroleum, light aromatic 64742-95-6	= 8400 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	= 3400 ppm ( Rat ) 4 h
1,2,4-Trimethylbenzene 95-63-6	= 3280 mg/kg ( Rat )	> 3160 mg/kg ( Rabbit )	= 18 g/m <sup>3</sup> ( Rat ) 4 h
Hexamethylene diisocyanate	= 710 µL/kg ( Rat )	= 593 mg/kg ( Rabbit )	= 0.06 mg/L ( Rat ) 4 h

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

<b>Skin Corrosion/Irritation</b>	Causes mild skin irritation
<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation
<b>Skin Sensitisation</b>	May cause an allergic skin reaction
<b>Respiratory Sensitisation</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled
<b>Germ Cell Mutagenicity</b>	Not applicable
<b>Carcinogenicity</b>	Not applicable
<b>Reproductive toxicity</b>	Not applicable
<b>Specific target organ toxicity (single exposure)</b>	May cause respiratory irritation
<b>Specific target organ toxicity (repeated exposure)</b>	Not applicable
<b>Aspiration Hazard</b>	Not applicable

**Section 12: ECOLOGICAL INFORMATION**

**Ecotoxicity** Harmful to aquatic life with long lasting effects

**Environmental Precautions** Prevent product from entering drains.

Chemical name	Algae/aquatic plants	Fish	Crustacea
2-Pentanone, 4-methyl- 108-10-1	= 400 mg/L <i>Pseudokirchneriella subcapitata</i> 96 h EC50	496 - 514 mg/L <i>Pimephales promelas</i> 96h LC50	= 170 mg/L <i>Daphnia magna</i> 48h EC50
Methyl ethyl ketone 78-93-3		3130 - 3320 mg/L <i>Pimephales promelas</i> 96h LC50	4025 - 6440 mg/L <i>Daphnia magna</i> 48h EC50 = 5091 mg/L <i>Daphnia magna</i> 48h EC50 > 520 mg/L <i>Daphnia magna</i> 48h EC50
n-Butyl acetate 123-86-4	= 674.7 mg/L <i>Desmodesmus subspicatus</i> 72 h EC50	= 62 mg/L <i>Leuciscus idus</i> 96h LC50 17 - 19 mg/L <i>Pimephales promelas</i> 96h LC50 = 100 mg/L <i>Lepomis macrochirus</i> 96h LC50	= 72.8 mg/L <i>Daphnia magna</i> 24h EC50
Solvent naphtha, petroleum, light aromatic 64742-95-6		= 9.22 mg/L <i>Oncorhynchus mykiss</i> 96h LC50	= 6.14 mg/L <i>Daphnia magna</i> 48h EC50
1,2,4-Trimethylbenzene 95-63-6		= 7.72 mg/L <i>Pimephales promelas</i> 96h LC50 7.19 - 8.28 mg/L <i>Pimephales promelas</i> 96h LC50	= 6.14 mg/L <i>Daphnia magna</i> 48h EC50
Hexamethylene diisocyanate 822-06-0		= 26.1 mg/L <i>Brachydanio rerio</i> 96h LC50	

**Persistence and Degradability** No information available.

**Bioaccumulation** No information available.

**Mobility** No information available.

Chemical name	Partition Coefficient (n-octanol/water)
2-Pentanone, 4-methyl- 108-10-1	1.19
Methyl ethyl ketone 78-93-3	0.3
n-Butyl acetate 123-86-4	1.81
1,2,4-Trimethylbenzene 95-63-6	3.63



## Section 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

<b>Waste from Residues/Unused Products</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.
<b>Contaminated Packaging</b>	Improper disposal or reuse of this container may be dangerous and illegal. Empty containers must be scrapped or reconditioned.

## Section 14: TRANSPORT INFORMATION

	<u>IMDG</u>	<u>ADG</u>	<u>IATA</u>
14.1 UN/ID no	UN1263	UN1263	UN1263
14.2 Proper Shipping Name	Paint	Paint	Paint
14.3 Hazard class	3	3	3
14.4 Packing group	II	II	II
14.5 Environmental hazard			
14.6 Special Provisions	163, 367	163, 367	A3, A72, A192
	<b>EmS-No</b> F-E, S-E		
14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC CODE			No information available
<b>HAZCHEM Code:</b>	3YE		

The supplier may apply one of the following exceptions: Combustible Liquid (49 CFR 173.150(f)); Consumer Commodity (49 CFR 173.150(c), ICAO/IATA SP A112); Limited Quantity (49 CFR 173.150(b), ICAO Part 3 Chapter 4, IATA 2.7, IMDG Chapter 3.4); Viscous Liquid (49 CFR 173.121(b), IMDG 2.3.2.2, IATA 3.3.3.1.1, ICAO 3.2.2, ADR 2.2.3.1.5); Does Not Sustain Combustion (49 CFR 173.120(a), IATA 3.3.1.3, ICAO 3.1.3, IMDG 2.3.1.3, ADR 2.2.3.1.1 Note 1); or others as allowed under hazardous materials/dangerous goods regulations.

## Section 15: REGULATORY INFORMATION

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

#### National Regulations

##### **Australia**

See section 8 for national exposure control parameters

##### **New Zealand**

See section 8 for national exposure control parameters

##### **ERMA New Zealand HSNO approval code or group standard**

HSR002662: SURFACE COATINGS AND COLOURANTS (FLAMMABLE)

#### International Inventories

**AICS** - Australian Inventory of Chemical Substances

All components are listed or exempt from listing

**NZIoC** - New Zealand Inventory of Chemicals

All components are listed or exempt from listing

### 15.2. Chemical safety assessment

No information available

## Section 16: OTHER INFORMATION

#### **Supplier Address**

Valspar Automotive Australia Pty  
Limited  
Unit 11/8 Kerta Road

Kincumber, NSW 2251  
Australia  
T: +612 43684054  
F: +612 43684215  
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**Prepared by** Product Stewardship

**Revision Date** 10-Oct-2020

**Revision note** Not applicable.

**Disclaimer**

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End of Safety Data Sheet