

# Dunlop Ready To Go Vinyl Adhesive Ardex (Ardex Australia)

Chemwatch: 25-5541 Version No: 5.1.1.1 Safety Data Sheet according to WHS and ADG requirements Chemwatch Hazard Alert Code: 1 Issue Date: 01/11/2019

Print Date: 12/08/2020 S.GHS.AUS.EN

# SECTION 1 Identification of the substance / mixture and of the company / undertaking

# Product Identifier

Product name	unlop Ready To Go Vinyl Adhesive	
Synonyms	Not Available	
Proper shipping name	AEROSOLS	
Other means of identification	Not Available	

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

	Aerosol spray adhesive. NOTE: Although the propellant is classed as flammable, the product as supplied is not (confirmed by laboratory tests)
Relevant identified uses	-due to the presence of water in the formulation. [Dunlop]
	Application is by spray atomisation from a hand held aerosol pack

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

Ardex (Ardex Australia)
20 Powers Road Seven Hills NSW 2147 Australia
1800 224 070
1300 780 102
Not Available
Not Available

# Emergency telephone number

Association / Organisation	Ardex (Ardex Australia)
Emergency telephone numbers	1800 224 070 (Mon-Fri, 9am-5pm)
Other emergency telephone numbers	Not Available

# **SECTION 2 Hazards identification**

# Classification of the substance or mixture

# HAZARDOUS CHEMICAL. DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

#### ChemWatch Hazard Ratings

	Min Max	1
Flammability	0	
Toxicity	1	0 = Minimum
Body Contact	1	1 = Low
Reactivity	1	2 = Moderate
Chronic	0	3 = High 4 = Extreme

Classification <sup>[1]</sup> Not Applicable	

#### Label elements

Hazard pictogram(s)	Not Applicable
Signal word	Not Applicable

#### Hazard statement(s)

AUH044 Risk of explosion if heated under confinement.

# Precautionary statement(s) Prevention

#### Not Applicable

Precautionary statement(s) Response

Not Applicable

#### Precautionary statement(s) Storage

Not Applicable

# Precautionary statement(s) Disposal

Not Applicable

#### **SECTION 3 Composition / information on ingredients**

#### Substances

See section below for composition of Mixtures

#### Mixtures

CAS No	%[weight]	Name
75-37-6	10-30	1,1-difluoroethane
Not Available	>60	Ingredients determined not to be hazardous

# **SECTION 4 First aid measures**

#### Description of first aid measures

Eye Contact	<ul> <li>If aerosols come in contact with the eyes:</li> <li>Immediately hold the eyelids apart and flush the eye with fresh running water.</li> <li>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	If solids or aerosol mists are deposited upon the skin: <ul> <li>Flush skin and hair with running water (and soap if available).</li> <li>Remove any adhering solids with industrial skin cleansing cream.</li> <li>DO NOT use solvents.</li> <li>Seek medical attention in the event of irritation.</li> </ul>
Inhalation	<ul> <li>If aerosols, fumes or combustion products are inhaled:</li> <li>Remove to fresh air.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>If breathing is shallow or has stopped, ensure clear airway and apply resuscitation, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor.</li> </ul>
Ingestion	Not considered a normal route of entry. If poisoning occurs, contact a doctor or Poisons Information Centre. Avoid giving milk or oils. Avoid giving alcohol.

# Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Treat symptomatically.

# **SECTION 5 Firefighting measures**

#### Extinguishing media

SMALL FIRE:

- Water spray, dry chemical or CO2
- LARGE FIRE:Water spray or fog.

# Special hazards arising from the substrate or mixture

Fire Incompatibility	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result	
Advice for firefighters		
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> </ul>	
Fire/Explosion Hazard	<ul> <li>Non combustible.</li> <li>Not considered to be a significant fire risk.</li> <li>Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>Aerosol cans may explode on exposure to naked flames.</li> </ul>	

	Decomposition may produce toxic fumes of: carbon dioxide (CO2)
	hydrogen fluoride
	other pyrolysis products typical of burning organic material.
	Contains low boiling substance: Closed containers may rupture due to pressure buildup under fire conditions.
HAZCHEM	Not Applicable

#### **SECTION 6 Accidental release measures**

# Personal precautions, protective equipment and emergency procedures

See section 8

# **Environmental precautions**

See section 12

#### Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Wear protective clothing, impervious gloves and safety glasses.</li> <li>Shut off all possible sources of ignition and increase ventilation.</li> </ul>
Major Spills	<ul> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear breathing apparatus plus protective gloves.</li> </ul>

Personal Protective Equipment advice is contained in Section 8 of the SDS.

# **SECTION 7 Handling and storage**

#### Precautions for safe handling

Safe handling	<ul> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> </ul>
Other information	• Keep dry to avoid corrosion of cans. Corrosion may result in container perforation and internal pressure may eject contents of can

# Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Aerosol dispenser.</li> <li>Check that containers are clearly labelled.</li> </ul>
Storage incompatibility	Compressed gases may contain a large amount of kinetic energy over and above that potentially available from the energy of reaction produced by the gas in chemical reaction with other substances

# **SECTION 8 Exposure controls / personal protection**

#### **Control parameters**

- Occupational Exposure Limits (OEL)
- INGREDIENT DATA

Not Available

#### Emergency Limits

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
1,1-difluoroethane	Difluoroethane; (1,1-Difluoroethane; HFC 152a)	Not Available	Not Available	Not Available
Ingredient	Original IDLH	Revised IDLH		
1,1-difluoroethane	Not Available	Not Available		

Occupational Exposure Bandi	ing
-----------------------------	-----

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit	
1,1-difluoroethane	E	≤ 0.1 ppm	
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.		

#### Exposure controls

	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.
Appropriate engineering	The basic types of engineering controls are:
controls	Process controls which involve changing the way a job activity or process is done to reduce the risk.
	Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

Page 4 of 8

# **Dunlop Ready To Go Vinyl Adhesive**

Personal protection	
Eye and face protection	No special equipment for minor exposure i.e. when handling small quantities. <b>OTHERWISE</b> : For potentially moderate or heavy exposures: • Safety glasses with side shields. • <b>NOTE</b> : Contact lenses pose a special hazard; soft lenses may absorb irritants and <b>ALL</b> lenses concentrate them.
Skin protection	See Hand protection below
Hands/feet protection	<ul> <li>No special equipment needed when handling small quantities.</li> <li>OTHERWISE:</li> <li>For potentially moderate exposures:</li> <li>Wear general protective gloves, eg. light weight rubber gloves.</li> <li>For potentially heavy exposures:</li> <li>Wear chemical protective gloves, eg. PVC. and safety footwear.</li> </ul>
Body protection	See Other protection below
Other protection	No special equipment needed when handling small quantities. <b>OTHERWISE:</b> • Overalls. • Skin cleansing cream. • Eyewash unit.

#### Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

Dunlop Ready To Go Vinyl Adhesive

Material	СРІ
BUTYL	А
NEOPRENE	А
VITON	А
NATURAL RUBBER	С
PVA	С

\* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

#### **Respiratory protection**

Type AX Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important.

Required minimum protection factor	Maximum gas/vapour concentration present in air p.p.m. (by volume)	Half-face Respirator	Full-Face Respirator
up to 10	1000	AX-AUS / Class1	-
up to 50	1000	-	AX-AUS / Class 1
up to 50	5000	Airline *	-
up to 100	5000	-	AX-2
up to 100	10000	-	AX-3
100+			Airline**

\* - Continuous Flow \*\* - Continuous-flow or positive pressure demand A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

Aerosols, in common with most vapours/ mists, should never be used in confined spaces without adequate ventilation. Aerosols, containing agents designed to enhance or mask smell, have triggered allergic reactions in predisposed individuals.

#### **SECTION 9 Physical and chemical properties**

nformation on basic physical and chemical properties			
Appearance	White pressurized liquid with a sweet odour; mixes with water.		
Physical state	Compressed Gas Relative density (Water = 1) 1.03		
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	5.5-7.5	Decomposition temperature	Not Available

Melting point / freezing point (°C)	Not Applicable	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Applicable	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	>1	VOC g/L	Not Available

# SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	<ul> <li>Elevated temperatures.</li> <li>Presence of open flame.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

# **SECTION 11 Toxicological information**

	Inhalation of aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual.				
	Inhalation of toxic gases may cause: Central Nervous System effects including depression, he	adapta confusion distingen atunar come and acisurae			
		eezing, rapid breathing, other symptoms and respiratory arrest;			
	heart: collapse, irregular heartbeats and cardiac arrest;	5, 1, 1, 1, 1, 5, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,			
Inhaled	gastrointestinal: irritation, ulcers, nausea and vomiting (m	ay be bloody), and abdominal pain.			
	replace air in breathing zone, acting as a simple asphyxiant. Symptoms of asphyxia (suffocation) may include headache, o	izziness, shortness of breath, muscular weakness, drowsiness and ringing in the sea and vomiting, further physical weakness and unconsciousness and, finally,			
Ingestion	Considered an unlikely route of entry in commercial/industrial environments A single high oral dose of 1,1-difluoroethane produced weight loss and lethargy.				
Skin Contact	Spray mist may produce discomfort Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.				
Eye	Not considered to be a risk because of the extreme volatility of	f the gas.			
Chronic	Substance accumulation, in the human body, may occur and Main route of exposure to the gas in the workplace is by inhal WARNING: Aerosol containers may present pressure related				
Dunlop Ready To Go Vinyl	ΤΟΧΙΟΙΤΥ	IRRITATION			
Adhesive	Not Available	Not Available			
	ΤΟΧΙCΙΤΥ	IRRITATION			
1.1 difluoroothana	Inhalation (mouse) LC50: 488.5 mg/l/2h <sup>[2]</sup>	Not Available			
1,1-difluoroethane	minalation (mouse) EC30. 488.5 mg//2103	Not Available			
1,1-difluoroethane	Oral (rat) LD50: 484 mg/kg <sup>[2]</sup>				
1,1-difluoroethane Legend:	Oral (rat) LD50: 484 mg/kg <sup>[2]</sup> 1. Value obtained from Europe ECHA Registered Substances	- Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise			
	Oral (rat) LD50: 484 mg/kg <sup>[2]</sup>	- Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise			
	Oral (rat) LD50: 484 mg/kg <sup>[2]</sup> 1. Value obtained from Europe ECHA Registered Substances specified data extracted from RTECS - Register of Toxic Effect 1,1-difluoroethane is practically non-toxic following acute or c and over) may cause reduced contraction of heart muscle and	- Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise			

Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×
		Legend: 🔀 – Data either n	ot available or does not fill the criteria for classification

 $\checkmark$  – Data entrem for available of does not find the chiefla for chiefla  $\checkmark$  – Data available to make classification

# **SECTION 12 Ecological information**

#### Toxicity

Dunlop Ready To Go Vinyl Adhesive	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
1,1-difluoroethane	Endpoint	Test Duration (hr)	Species	Value	Source
	LC50	96	Fish	48.415mg/L	3
	EC50	48	Crustacea	146.695mg/L	2
	EC50	96	Algae or other aquatic plants	47.755mg/L	2
Legend:	V3.12 (QSAR	) - Aquatic Toxicity Data (Estimated) 4.	CHA Registered Substances - Ecotoxicological Infor. US EPA, Ecotox database - Aquatic Toxicity Data 5 TI (Japan) - Bioconcentration Data 8. Vendor Data	, ,	

#### DO NOT discharge into sewer or waterways.

# Persistence and degradability

Ingredient F	Persistence: Water/Soil	Persistence: Air
1,1-difluoroethane	LOW	LOW

# **Bioaccumulative potential**

Ingredient	Bioaccumulation	
1,1-difluoroethane	LOW (LogKOW = 0.75)	
Mobility in soil		

Ingredient	Mobility
1,1-difluoroethane	LOW (KOC = 35.04)

# **SECTION 13 Disposal considerations**

Waste treatment methods		
Product / Packaging disposal	<ul> <li>Consult State Land Waste Management Authority for disposal.</li> <li>Discharge contents of damaged aerosol cans at an approved site.</li> <li>Allow small quantities to evaporate.</li> <li>DO NOT incinerate or puncture aerosol cans.</li> </ul>	

# **SECTION 14 Transport information**

#### Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable
Land transport (ADG)	

UN number	1950		
UN proper shipping name	AEROSOLS		
Transport hazard class(es)	Class     2.2       Subrisk     Not Applicable		
Packing group	Not Applicable		
Environmental hazard	Not Applicable		

	Special provisions	63 190 277 327 344 381
Special precautions for user	Limited quantity	1000ml

### Air transport (ICAO-IATA / DGR)

1

UN number	1950			
UN proper shipping name	Aerosols, non-flammable; Aerosols, non-flammable (containing biological products or a medicinal preparation which will be deteriorated by a heat test)			
	ICAO/IATA Class	2.2		
Transport hazard class(es)	ICAO / IATA Subrisk	Not Applicable		
	ERG Code	2L		
Packing group	Not Applicable			
Environmental hazard	Not Applicable			
	Special provisions		A98 A145 A167 A802	
	Cargo Only Packing Instructions		203	
	Cargo Only Maximum Qty / Pack		150 kg	
Special precautions for user	Passenger and Cargo Packing Instructions		203	
	Passenger and Cargo Maximum Qty / Pack		75 kg	
	Passenger and Cargo	Limited Quantity Packing Instructions	Y203	
	Passenger and Cargo	Limited Maximum Qty / Pack	30 kg G	

# Sea transport (IMDG-Code / GGVSee)

UN number	1950			
UN proper shipping name	AEROSOLS	AEROSOLS		
Transport hazard class(es)				
Packing group	Not Applicable			
Environmental hazard	Not Applicable			
Special precautions for user	EMS Number Special provisions Limited Quantities			

Transport in bulk according to Annex II of MARPOL and the IBC code Not Applicable

# **SECTION 15 Regulatory information**

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

#### 1,1-difluoroethane is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

#### **National Inventory Status**

National Inventory	Status			
Australia - AIIC	Yes			
Australia Non-Industrial Use	No (1,1-difluoroethane)			
Canada - DSL	Yes			
Canada - NDSL	No (1,1-difluoroethane)			
China - IECSC	Yes			
Europe - EINEC / ELINCS / NLP	Yes			
Japan - ENCS	Yes			
Korea - KECI	Yes			
New Zealand - NZIoC	Yes			
Philippines - PICCS	Yes			
USA - TSCA	Yes			
Taiwan - TCSI	Yes			
Mexico - INSQ	Yes			
Vietnam - NCI	Yes			
Russia - ARIPS	Yes			

National Inventory	Status	
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)	

# **SECTION 16 Other information**

Revision Date	01/11/2019
Initial Date	23/12/2010

#### SDS Version Summary

Version	Issue Date	Sections Updated
4.1.1.1	08/09/2015	Acute Health (inhaled), Acute Health (skin), Acute Health (swallowed), Advice to Doctor, Appearance, Chronic Health, Fire Fighter (extinguishing media), Fire Fighter (fire/explosion hazard), Fire Fighter (fire fighting), First Aid (swallowed), Ingredients, Personal Protection (Respirator), Personal Protection (eye), Physical Properties, Spills (major), Storage (storage incompatibility), Storage (suitable container)
5.1.1.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

#### **Definitions and abbreviations**

PC-TWA: Permissible Concentration-Time Weighted Average PC-STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit. IDLH: Immediately Dangerous to Life or Health Concentrations OSF: Odour Safety Factor NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index This document is copyright.

Apart from any fair dealing for the purposes of private study, research, review or criticism, as permitted under the Copyright Act, no part may be reproduced by any process without written permission from CHEMWATCH. TEL (+61 3) 9572 4700.