

SAFETY DATA SHEET

ADH9454

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Dated 28/08/2019

SECTION 1: Identification of the substance/mixture and the company/undertaking	
1.1. Product Identifier	
Product Name	Adhere ADH9454
REACH registered name:	ETHYL 2-CYANOACRYLATE
REACH registered number(s):	01-2119527766-29-XXXX
1.2. Relevant identified uses of the substance or mixture and uses advised against	
Intended use	PC1: Adhesives, sealants
1.3. Details of the supplier of the safety data sheet	
Name	Intertronics
Full address	12a Station Field Industrial Estate Banbury Road Kidlington Oxfordshire OX5 1JD England
Email address of the competent person responsible for the Safety Data Sheet	msds@intertronics.co.uk
1.4. Emergency telephone number	
For urgent enquiries refer to	+44 1865 842842
SECTION 2: Hazards identification	
2.1. Classification of the substance or mixture	
Classification under CHIP:	Xi: R36/37/38
Classification under CLP:	STOT SE 3: H335; Eye Irrit. 2: H319; Skin Irrit. 2: H315; -: EUH202
Most important adverse effects:	Irritating to eyes, respiratory system and skin.
2.2. Label elements	
Hazard statements:	H315: Causes skin irritation H319: Causes serious eye irritation H335: May cause respiratory irritation EUH202: Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.
Signal words:	Warning
Hazard pictograms:	GHS07: Exclamation mark 
Precautionary statements:	P261: Avoid breathing dust/fumes/gas/mist/vapours/spray. P271: Use only outdoors or in a well-ventilated area. P280: Wear protective gloves/protective clothing/eye protection/face protection. P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312: Call a POISON CENTRE or doctor if you feel unwell.	
Label elements under CHIP:	Irritant
Hazard symbols:	
Risk phrases:	R36/37/38: Irritating to eyes, respiratory system and skin.
Safety phrases:	S2: Keep out of the reach of children. S46: If swallowed, seek medical advice immediately and show this container or label.
Precautionary phrases:	Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.
2.3. Other hazards	
PBT:	This product is not identified as a PBT/vPvB substance.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:
ETHYL-2-CYANOACRYLATE

EINECS	CAS	CHIP Classification	CLP Classification	Percent
230-391-5	7085-85-0	Xi: R36/37/38	Eye Irrit. 2: H319; STOT SE 3: H335; Skin Irrit. 2: H315	>90%

SECTION 4: First aid measures

4.1. Description of first aid measures

Skin contact:	Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.
Eye contact:	Bathe the eye with running water for 15 minutes. Consult a doctor.
Ingestion:	Wash out mouth with water. Consult a doctor.
Inhalation:	Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

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

Skin contact:	There may be irritation and redness at the site of contact.
Eye contact:	There may be irritation and redness. The eyes may water profusely.
Ingestion:	There may be soreness and redness of the mouth and throat.
Inhalation:	There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.
Delayed / immediate effects:	Immediate effects can be expected after short-term exposure.

4.3. Indication of any immediate attention and special treatment needed

Immediate / special treatment: Eye bathing equipment should be available on the premises.

SECTION 5: Firefighting measures**5.1. Extinguishing media**

Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes.

5.3. Advice for firefighters

Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2. Environmental precautions.

Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4. Reference to other sections

Refer to section 8 of SDS.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed.

Suitable packaging: Polyethylene.

7.3. Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Hazardous ingredients:**

ETHYL-2-CYANOACRYLATE

Workplace exposure limits:

Respirable dust:

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	-	1.5 mg/m3	-	-

DNEL/PNEC Values:

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Type	Exposure	Value	Population	Effect
DNEL	Inhalation	9.25 mg/m3	Workers	Local
DNEL	Inhalation	9.25 mg/m3	Workers	Systemic
DNEL	Inhalation	9.25 mg/m3	General Population	Local
DNEL	Inhalation	9.25 mg/m3	General Population	Local

8.2. Exposure controls

Engineering measures:	Ensure there is sufficient ventilation of the area.
Respiratory protection:	Self-contained breathing apparatus must be available in case of emergency.
Hand protection:	Protective gloves.
Eye protection:	Safety glasses. Ensure eye bath is to hand.
Skin protection:	Protective clothing.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

State:	Liquid
Colour:	Colourless
Odour:	Characteristic odour
Evaporation rate:	No data available
Oxidising:	No data available
Solubility in water:	Reacts with water
Also soluble in:	Acetone
Viscosity:	Highly Viscous
Kinematic viscosity:	~100000
Viscosity test method:	Cone and Plate @ 25°C (CPs)
Boiling point / range °C:	>149
Melting point / range °C:	No data available
Lower inflammability limit:	No data available
Upper inflammability limit:	No data available
Flash point °C:	80 – 93.4
Part.coeff. n-octanol/water:	No data available
Autoflammability °C:	450
Vapour pressure:	<700 mbar
Relative density:	1.05
pH:	Not applicable
VoC g/l:	<20

9.2. Other information

No data available

SECTION 10: Stability and reactivity**10.1. Reactivity**

Stable under recommended transport or storage conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Moist air. Heat.

10.5. Incompatible materials

Materials to avoid: Water. Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

In combustion emits toxic fumes.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Toxicity values:**

Route	Species	Test	Value	Units
DERMAL	RBT	LD50	>2000	mg/kg
ORAL	RAT	LD50	>5000	mg/kg

Hazardous ingredients:

ETHYL-2-CYANOACRYLATE

ORL	RAT	LD50	>5	ml/kg
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Relevant effects for mixture:

Effect	Route	Basis
Irritation	OPT INH DRM	Hazardous: calculated

Symptoms / routes of exposure:**Skin contact:**

There may be irritation and redness at the site of contact.

Eye contact:

There may be irritation and redness. The eyes may water profusely.

Ingestion:

There may be soreness and redness of the mouth and throat.

Inhalation:

There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

Delayed / immediate effects:

Immediate effects can be expected after short-term exposure.

SECTION 12: Ecological information**12.1. Toxicity**

Ecotoxicity values: No data available.

12.2. Persistence and degradability

Biodegradable

12.3. Bioaccumulative potential

No bioaccumulation potential

12.4. Mobility in soil

Readily absorbed into soil

12.5. Results of PBT and vPvB assessment

This product is not identified as a PBT/vPvB substance

12.6. Other adverse effects

Negligible ecotoxicity

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company.**Waste code number:** 08 04 09**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.**SECTION 14: Transport information****14.1. UN number**

UN Number: UN3334

14.2 UN proper shipping name

Shipping name: AVIATION REGULATED LIQUID, N.O.S. (ETHYL-2-CYANOACRYLATE)

14.3 Transport hazard class(es)

Transport class: 9

14.4 Packing group

Packing group: III

14.5 Environment hazards

Environmentally hazardous: No

Marine pollutant: No

14.6 Special precautions for user

Special precautions: No special precautions

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****15.2. Chemical Safety Assessment****SECTION 16: Other information**

This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

Phrases used in s.2 and s.3:

EUH202: Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.
 H302: Harmful if swallowed.
 H315: Causes skin irritation.
 H317: May cause an allergic skin reaction.
 H318: Causes serious eye damage.
 H319: Causes serious eye irritation.
 H335: May cause respiratory irritation.
 H341: Suspected of causing genetic defects <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
 H351: Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
 H400: Very toxic to aquatic life.
 R22: Harmful if swallowed.
 R36/37/38: Irritating to eyes, respiratory system and skin.
 R40: Limited evidence of a carcinogenic effect.
 R41: Risk of serious damage to eyes.
 R43: May cause sensitisation by skin contact.
 R50: Very toxic to aquatic organisms.
 R68: Possible risk of irreversible effects.

Legend to abbreviations:

PNEC = predicted no effect level
 DNEL = derived no effect level
 LD50 = median lethal dose
 LC50 = median lethal concentration
 EC50 = median effective concentration
 IC50 = median inhibitory concentration
 dw = dry weight
 bw = body weight
 cc = closed cup
 oc = open cup
 MUS = mouse
 GPG = guinea pig
 RBT = rabbit
 HAM = hamster
 HMN = human
 MAM = mammal
 PGN = pigeon
 IVN = intravenous

SCU = subcutaneous
SKN = skin
DRM = dermal
OCC = ocular/corneal
PCP = physico-chemical properties

Legal disclaimer:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The company shall not be held liable for any damage resulting from handling or from contact with the above product.