

SAFETY DATA SHEET ADH9455

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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 ADH9455
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	
Identified uses	Activator
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	
Physical hazards:	Aerosol 1 – H222, H229
Health hazards:	Skin Irrit. 2 – H315 STOT SE 3 – H336
Environmental hazards:	Aquatic Chronic 2 – H411
Classification (67/548/EEC or 1999/45/EC):	F+; R12. Xi; R38. N; R51/53. R67.
Human Health:	Vapours and spray/mists in high concentrations are narcotic. See Section 11 for additional information on health hazards.
Environmental:	The product contains a substance which is toxic to aquatic organisms.
Physicochemical:	Containers can burst violently or explode when heated, due to excessive pressure build-up. The product is extremely flammable. Vapours may form explosive mixtures with air.
2.2. Label elements	
Hazard statements:	H222: Extremely flammable aerosol. H229: Pressurised container: may burst if heated. H315: Causes skin irritation. H336: May cause drowsiness or dizziness. H411: Toxic to aquatic life with long lasting effects.
Signal word:	Danger
Hazard pictograms:	  

Precautionary statements:	P102: Keep out of reach of children. P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211: Do not spray on an open flame or other ignition source. P251: Do not pierce or burn, even after use. P261: Avoid breathing vapours/spray. P271: Use only outdoors or in a well-ventilated area. P280: Wear protective gloves/protective clothing/eye protection/face protection. P302+P352: IF ON SKIN: Wash with plenty of water. P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312: Call a POISON CENTRE or doctor if you feel unwell. P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
Contains:	HYDROCARBONS, C6-C7, N-ALKANES, ISOALKANES, CYCLICS, <5% N-HEXANE, HYDROCARBONS, C6 ISOALKANES <5% N-HEXANE
Supplementary precautionary statements:	P264: Wash contaminated skin thoroughly after handling. P273: Avoid release to the environment. P321: Specific treatment (see medical advice on this label). P332+P313: If skin irritation occurs: Get medical advice/attention. P362+P364: Take off contaminated clothing and wash it before reuse. P391: Collect spillage. P403+P233: Store in a well-ventilated place. Keep container tightly closed. P405: Store locked up. P501: Dispose of contents/container in accordance with national regulations.

2.3. Other hazards**PBT:**

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients**3.2. Mixtures**

HYDROCARBONS, C6-C7, N-ALKANES, ISOALKANES, CYCLICS, <5% N-HEXANE			30-60%
CAS number	EC number	REACH registration number	
64742-49-0	921-024-6	01-2119475514-35-XXXX	
Classification			
Flam. Liq. 2 – H225			
Skin Irrit. 2 – H315			
STOT SE 3 – H336			
Asp. Tox. 1 – H304			
STOT SE 3 – H336			
Aquatic Chronic 2 – H411			

PETROLEUM GASES, LIQUEFIED			10-30%
CAS number	EC number		
68476-85-7	270-704-2		
Classification			
Flam. Gas 1 – H220			
Press. Gas, Compressed – H280			

HYDROCARBONS, C6 ISOALKANES <5% N-HEXANE			10-30%
CAS number	EC number	REACH registration number	
64742-49-0	931-254-9	01-2119484651-34-XXXX	
Classification			
Flam. Liq. 2 – H225			
Skin Irrit. 2 – H315			
STOT SE 3 – H336			
Asp. Tox. 1 – H304			
Aquatic Chronic 2 – H411			

N,N-DIMETHYL-P-TOLUIDINE			<1%
CAS number	EC number		
99-97-8	202-805-4		
Classification			
Acute Tox. 3 – H301			
Acute Tox. 3 – H311			
Acute Tox. 3 – H331			
STOT RE 2 – H373			
Aquatic Chronic 3 – H412			

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures	
4.1. Description of first aid measures	
General information:	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.
Inhalation:	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If in doubt, get medical attention promptly.
Ingestion:	Rinse mouth thoroughly with water. Remove person to fresh air and keep comfortable for breathing. Get medical attention.
Skin contact:	Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after washing.
Eye contact:	Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.
Protection of first aiders:	First aid personnel should wear appropriate protective equipment during any rescue.
4.2. Most important symptoms and effects, both acute and delayed	
General information:	See Section 11 for additional information on health hazards.
4.3. Indication of any immediate attention and special treatment needed	
Notes for the doctor: Treat symptomatically.	

SECTION 5: Firefighting measures
5.1. Extinguishing media Suitable extinguishing media: Foam, carbon dioxide or dry powder.
5.2. Special hazards arising from the substance or mixture Containers can burst violently or explode when heated, due to excessive pressure build-up.
5.3. Advice for firefighters Protective actions during firefighting: Use water to keep fire exposed containers cool and disperse vapours. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk.

SECTION 6: Accidental release measures
6.1. Personal precautions, protective equipment and emergency procedures Avoid inhalation of vapours and contact with skin and eyes. Ensure suitable respiratory protection is worn during removal of spillages in confined areas.
6.2. Environmental precautions. Avoid discharge into drains.
6.3. Methods and material for containment and cleaning up Clean-up procedures: Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb in vermiculite, dry sand or earth and place into containers.
6.4. Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage
7.1. Precautions for safe handling Usage precautions: Keep away from heat, sparks and open flame. Read and follow manufacturer's recommendations. When sprayed on a naked flame or any incandescent material, the aerosol vapours can be ignited. Use suitable respiratory protection if ventilation is inadequate. Advice on general occupational hygiene: Wash promptly with soap and water if skin becomes contaminated. Do not eat, drink or smoke when using this product.
7.2. Conditions for safe storage, including any incompatibilities Storage conditions: Protect from freezing and direct sunlight. Store in a dry place. Do not store near heat sources or expose to high temperatures. Keep away from heat, sparks and open flame.
7.3. Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/personal protection
8.1. Control parameters Occupational exposure limits: PETROLEUM GASES, LIQUEFIED Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1750 mg/m ³ Short-term exposure limit (15-minute): WEL 1250 ppm 2180 mg/m ³ WEL = Workplace Exposure Limit HYDROCARBONS, C6-C7, N-ALKANES, ISOALKANES, CYCLICS, <5% N-HEXANE (CAS: 64742-49-0) DNEL Consumer – Oral; Long term systemic effects: 699 mg/kg/day Workers – Oral; Long term systemic effects: 773 mg/kg/day

DNEL	Workers – Dermal; Long term systemic effects: 773 mg/kg/day Consumer – Dermal; Long term systemic effects: 699 mg/kg/day Consumer – Inhalation; Long term systemic effects: 608 mg/ m³ <u>HYDROCARBONS, C6 ISOALKANES <55 N-HEXANE (CAS: 64742-49-0)</u> Consumer – Oral; Long term systemic effects: 1301 mg/kg/day Consumer – Dermal; Long term systemic effects: 1377 mg/kg/day Workers – Dermal; Long term systemic effects: 13964 mg/kg/day Consumer – Inhalation; Long term systemic effects: 1131 mg/ m³ Workers – Inhalation; Long term systemic effects: 5306 mg/m³
8.2. Exposure controls Eye/face protection: Hand protection: Other skin and body protection: Respiratory protection:	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. No specific requirements are anticipated under normal conditions of use. Wear suitable protective equipment for prolonged exposure and/or high concentrations of vapours, spray or mist. No specific recommendations. If ventilation is inadequate, suitable respiratory protection must be worn.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	Aerosol
Colour:	Clear
Odour:	Solvents
Odour threshold:	No information available
pH:	No information available
Melting point / range:	No information available
Initial boiling point / range:	-41 (-41 to 215)°C @
Flash point:	-40°C CC (closed cup)
Evaporation rate:	No information available
Evaporation factor:	No information available
Flammability (solid, gas):	No information available
Upper/Lower flammability or explosive limits:	Lower flammable/explosive limit: 1.0% Upper flammable/explosive limit: 9.5%
Vapour pressure:	No information available
Vapour density:	No information available
Relative density:	0.651
Solubility(ies):	Insoluble in water
Partition coefficient:	No information available
Auto-ignition temperature:	413°C
Decomposition temperature:	No information available
Viscosity:	No information available
Explosive properties:	No information available
Oxidising properties:	No information available

9.2. Other information

None

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

No test data specifically related to reactivity available for this product or its ingredients.

10.2. Chemical stability

The product may not be stable under some conditions of storage or use.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition. Avoid exposing aerosol containers to high temperatures or direct sunlight.

10.5. Incompatible materials

Materials to avoid: None known.

10.6. Hazardous decomposition products

None at ambient temperatures.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute toxicity – oral**

ATE oral (mg/kg) 25,000.0

Acute toxicity – dermal

ATE dermal (mg/kg) 75,000.0

Acute toxicity – inhalation

ATE inhalation (vapours mg/l) 750.0

Inhalation: Vapours in high concentrations are narcotic. Vapours may cause headache, fatigue, dizziness and nausea.

Skin contact: Causes skin irritation.

Eye contact: Vapour or spray in the eyes may cause irritation and smarting.

Acute and chronic health hazards: No known chronic or acute health risks.

Route of entry: Skin and/or eye contact inhalation.

Toxicological information on ingredients:

HYDROCARBONS, C6-C7, N-ALKANES, ISOALKANES, CYCLICS, <5% N-HEXANE (CAS: 64742-49-0)**Acute toxicity – oral**

Acute toxicity oral (LD₅₀ mg/kg) 5,001.0

Species Rat

ATE oral (mg/kg) 5,001.0

Acute toxicity – dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,001.0

Species Rabbit

ATE dermal (mg/kg) 2,001.0

HYDROCARBONS, C6 ISOALKANES <5% N-HEXANE**Acute toxicity – oral**

Acute toxicity oral (LD₅₀ mg/kg) 5,001.0

Species Rat

ATE oral (mg/kg) 5,001.0

Acute toxicity – dermal

Acute toxicity dermal (LD ₅₀ mg/kg)	2,001.0
Species	Rabbit
ATE dermal (mg/kg)	2,001.0

Acute toxicity – inhalation

Acute toxicity inhalation (LC ₅₀ mg/l)	21.0
Species	Rat
ATE inhalation (vapours mg/l)	21.0

N,N-DIMETHYL-P-TOLUIDINE**Acute toxicity – oral**

Acute toxicity oral (LD ₅₀ mg/kg)	1,650.0
Species	Rat
ATE oral (mg/kg)	100.0

Acute toxicity – inhalation

Acute toxicity inhalation (LC ₅₀ mg/l)	1.4
Species	Rat
ATE inhalation (vapours mg/l)	3.0

SECTION 12: Ecological information**12.1. Toxicity****HYDROCARBONS, C6-C7, N-ALKANES, ISOALKANES, CYCLICS, <5% N-HEXANE**

Acute toxicity – fish	LOEC, : 1-10 mg/l, Fish
Acute toxicity – aquatic plants	LOEC, : 10-100 mg/l, Algae
Acute toxicity – microorganisms	LOEC, : 1-10 mg/l, Activated sludge

HYDROCARBONS, C6 ISOALKANES <5% N-HEXANE

Acute toxicity – fish	LOEC, : 10-100 mg/l, Fish
Acute toxicity – aquatic plants	LOEC, : 10-100 mg/l, Algae

N,N-DIMETHYL-P-TOLUIDINE

Acute toxicity – fish	LC ₅₀ , 96 hours: 46-52 mg/l, Pimephales promelas (Fat-head minnow)
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12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

Partition coefficient: No information available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

None known

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

General information:	Dispose of waste product or used containers in accordance with local regulations.
Disposal methods:	Containers should be thoroughly emptied before disposal because of the risk of an explosion. Do not pierce or burn, even after use.

SECTION 14: Transport information**14.1. UN number**

UN No. (ADR/RID): 1950
 UN No. (IMDG): 1950
 UN No. (ICAO): 1950
 UN No. (ADN): 1950

14.2 UN proper shipping name

Proper shipping name (ADR/RID): AEROSOLS, FLAMMABLE
 Proper shipping name (IMDG): AEROSOLS, FLAMMABLE
 Proper shipping name (ICAO): AEROSOLS, FLAMMABLE
 Proper shipping name (ADN): AEROSOLS, FLAMMABLE

14.3 Transport hazard class(es)

ADR/RID class 2.1
 ADR/RID classification code 5F
 ADR/RID label 2.1
 IMDG class 2.1
 ICAO class 2.1
 ADN class 2.1

Transport labels:

**14.4 Packing group**

Not applicable

14.5 Environment hazards

Environmentally hazardous substance/marine pollutant

**14.6 Special precautions for user**

EmS F-D, S-U
 ADR transport category 2
 Tunnel restriction code (D)

14.7 Special precautions for user

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

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

National regulations: The Aerosol Dispensers Regulations 2009 (SI 2009 No. 2824).
 EU legislation: Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
 Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
 Council Directive of 20 May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers (75/324/EEC) (as amended).

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision date: 20/01/2016

Revision: 2

Supersedes date: 30/07/2014

SDS number: 4864

Hazard statements in full: H220: Extremely flammable gas.
H222: Extremely flammable aerosol.
H225: Highly flammable liquid and vapour.
H229: Pressurised container: may burst if heated.
H280: Contains gas under pressure; may explode if heated.
H301: Toxic if swallowed.
H304: May be fatal if swallowed and enters airways.
H311: Toxic in contact with skin.
H315: Causes skin irritation.
H331: Toxic if inhaled.
H336: May cause drowsiness or dizziness.
H373: May cause damage to organs through prolonged or repeated exposure.
H411: Toxic to aquatic life with long lasting effects.
H412: Harmful to aquatic life with long lasting effects.

Legal disclaimer: This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy themselves as to the suitability of such information for their own particular use.