

CP1686 v1.5 RS 473-461



RS PRO Industrial Cyanoacrylate Adhesive

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
 Reference number: CP 1686
 Issue date: 11/1/2013 Revision date: 3/29/2021 Supersedes version of: 2/5/2018 Version: 5.1

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

1.1. Product identifier

Product form : Mixture
 Trade name : RS PRO Industrial Cyanoacrylate Adhesive
 UFI : 8F58-0067-900U-4HGN
 Product code : 473-461
 Type of product : adhesives

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Adhesives, binding agents

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

RS Components Ltd

Birchington Road
 Corby
 Northants
 NN17 9RS

Tel No.: +44 (0) 845 850 9900

email: RCustomerServicesUK@rs-components.com

RS Components Ltd

Glenview Industrial Estate
 Herberton Road
 Rialto
 Dublin 12

Tel No.: +353 (0) 1 415 3100

email: enquiries.ie@rs-components.com

1.4. Emergency telephone number

Emergency number : 24 hour Emergency Telephone Number: +44 1865 407333 +44 1235 239670

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] Mixtures/Substances: SDS EU > 2015: According to Regulation (EU) 2015/830, 2020/878 (REACH Annex II)

Skin corrosion/irritation, Category 2 H315

Serious eye damage/eye irritation, Category 2 H319

Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation H335

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS07

Signal word (CLP)

: Warning

Contains

: Ethyl 2-cyanoacrylate

Hazard statements (CLP)

: H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H335 - May cause respiratory irritation.

Precautionary statements (CLP)

: P261 - Avoid breathing fume, vapours.

P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear eye protection, protective gloves.

P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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.

EUH-statements

: EUH202 - Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.

2.3. Other hazards

Other hazards which do not result in classification : Contact with skin through cellulose based fabrics (i.e cotton, rayon, linen, viscose) generates heat and may cause burns.

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Ethyl 2-cyanoacrylate	CAS-No.: 7085-85-0 EC-No.: 230-391-5 EC Index-No.: 607-236-00-9 REACH-no: 01-2119527766-29	>80 - <100	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
Ethyl 2-cyanopropionate	CAS-No.: 1572-99-2 EC-No.: 216-393-9	0.1 - 0.5	Acute Tox. 3 (Oral), H301

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Do not pull bonded skin apart.
First-aid measures after inhalation	: Move the affected person away from the contaminated area and into the fresh air. If symptoms persist, consult a doctor.
First-aid measures after skin contact	: Do not pull bonded skin apart. . Remove all contaminated clothing and footwear. unless stuck to skin. . Wash immediately with plenty of soap and water. Any bonded skin should be gently peeled apart, preferably after soaking in warm, soapy water. In the case of large spills on the skin, superficial burns may occur - treat accordingly. If irritation persists, consult a doctor.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. If the eyelid is bonded closed, do not force open. Cover with wet pad soaked in warm water. Get prompt medical attention in case solid particles of cured cyanoacrylate get trapped behind the eye, there is a possibility of causing abrasive damage. . The affected eye should be covered with wet dressing until the separation process is complete, usually 1-3 days. If eye irritation persists, consult a specialist.
First-aid measures after ingestion	: The product will polymerise immediately in the mouth, making it almost impossible to swallow, but beware of possible choking hazard. Make sure the airways are not obstructed. . Saliva will separate the solidified product from the mouth within a few hours. . If symptoms persist, consult a doctor.

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

Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after inhalation	: May cause shortness of breath, tightness of the chest, a sore throat and cough.
Symptoms/effects after skin contact	: skin irritation and erythema. Cyanoacrylates bond skin in seconds. In the case of large spills on the skin, superficial burns may occur - treat accordingly.
Symptoms/effects after eye contact	: Causes eye irritation. redness, itching, tears. Cyanoacrylates bond eyelids in seconds.
Symptoms/effects after ingestion	: Causes irritation of the mouth and throat. The product will polymerise immediately in the mouth, making it almost impossible to swallow, but beware of possible choking hazard.

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

An eyewash station should be available on the premises.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO ₂).
Unsuitable extinguishing media	: high volume water jet or water based extinguishing media.

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5.2. Special hazards arising from the substance or mixture

- Reactivity in case of fire : On heating, there is a risk of bursting due to internal pressure build-up. Cool down the containers exposed to heat with a water spray.
- Hazardous decomposition products in case of fire : Combustion products may include the following: carbon oxides (CO, CO₂) (carbon monoxide, carbon dioxide) nitrogen oxides (NO, NO₂ etc.).

5.3. Advice for firefighters

- Firefighting instructions : Do not allow water to enter the vessels, a violent reaction may occur.
- Protection during firefighting : Use self-contained breathing apparatus and chemically protective clothing. Avoid contact with eyes, skin and clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Avoid contact with skin and eyes.

6.1.1. For non-emergency personnel

- Emergency procedures : See section 8 of the SDS for more information on personal protective equipment. Avoid contact with skin, eyes and clothing.

6.1.2. For emergency responders

- Protective equipment : Protective gloves. EN 374-2. Safety glasses. EN 166.
- Emergency procedures : See section 8 of the SDS for more information on personal protective equipment. Mark out the contaminated area with signs and prevent access to unauthorized personnel. Stop the leak. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2. Environmental precautions

For a large spillage, contain the spillage by bunding. Do not allow contact with water. Do not allow to enter drains or water courses.

6.3. Methods and material for containment and cleaning up

- For containment : For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal. (Do not use cloths; rags or materials made from cellulose).
- Methods for cleaning up : Absorb spilled material with sand or earth. (Do not use cloths; rags or materials made from cellulose). Or polymerise slowly with water (~10:1, adhesive : water) and then scrape up residue. Place in an appropriate container and dispose of the contaminated material at a licensed site.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Avoid contact with skin, eyes and clothing. Ensure that there is a suitable ventilation system. Do not handle in a confined space. Ambient humidity should be >35% to minimise discomfort.
- Hygiene measures : Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Store in a well-ventilated place. Keep container tightly closed. Store away from direct sunlight or other heat sources.
- Storage conditions : Keep only in original container. Protect from sunlight. For optimum shelf-life, it is recommended to keep the product in a refrigerated storage area. . Storage temperature 2-8°C.
- Incompatible products : Oxidizing agent. Strong bases. Water. Amines. alcohols.
- Incompatible materials : Heat sources. Water, humidity.
- Storage area : Store in a well-ventilated place.

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Packaging materials : Store always product in container of same material as original container.

7.3. Specific end use(s)

adhesives.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure that there is a suitable ventilation system. See section 7 of the SDS.

8.2.2. Personal protection equipment

Personal protective equipment:

Safety glasses. Gloves.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

Eye protection			
Type	Field of application	Characteristics	Standard
Safety glasses	Droplet	With side shields	EN 166

8.2.2.2. Skin protection

Skin and body protection:

Do not wear cellulose based protective clothing (i.e cotton, rayon, linen, viscose).

Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves	Nitrile rubber (NBR), Viton® II	3 (> 60 minutes)	>0.15		EN 374-2

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8.2.2.3. Respiratory protection

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection. Keep self contained breathing apparatus readily available for emergency use.

Respiratory protection			
Device	Filter type	Condition	Standard
Gas mask	Type A - High-boiling (>65 °C) organic compounds	If conc. in air > exposure limit	EN 405

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colourless.
Appearance	: Clear, colorless liquid.
Odour	: Acrid.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: > 150 °C
Flammability	: Not available
Oxidising properties	: Not oxidising.
Explosive limits	: Not available
Lower explosive limit (LEL)	: Not available
Upper explosive limit (UEL)	: Not available
Flash point	: > 85 °C
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: ~6-7
Viscosity, kinematic	: ≈ 95 mm ² /s
Solubility	: Soluble in acetone. Reacts violently on contact with water. Water: 24 µg/l @ 20 °C & pH 6.6
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: ≈ 0.04 mm Hg @25°C
Vapour pressure at 50 °C	: Not available
Density	: Not available
Relative density	: ≈ 1.06
Relative vapour density at 20 °C	: Not available
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle aggregation state	: Not applicable
Particle agglomeration state	: Not applicable
Particle specific surface area	: Not applicable
Particle dustiness	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

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9.2.2. Other safety characteristics

VOC content : < 3 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport. Do not allow contact with water.

10.2. Chemical stability

Stable under normal conditions of use. Polymerizes on exposure to water (moisture).

Hardening time : < 50 Seconds

10.3. Possibility of hazardous reactions

Stable under normal conditions of use. Polymerizes on exposure to temperature rise: pressure build-up may cause closed container to burst.

10.4. Conditions to avoid

Heat. High temperature. Open flame. Water, humidity. Protect from sunlight.

10.5. Incompatible materials

Incompatible with water, humid air. Oxidizing agent. Strong bases. Amines. alcohols.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, nitrogen oxides (NOx).

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

Ethyl 2-cyanoacrylate (7085-85-0)

LD50 oral rat	> 5 ml/kg
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Skin corrosion/irritation : Causes skin irritation.
pH: ~6-7

Serious eye damage/irritation : Causes serious eye irritation.
pH: ~6-7

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

STOT-single exposure : May cause respiratory irritation.

Ethyl 2-cyanoacrylate (7085-85-0)

STOT-single exposure	May cause respiratory irritation.
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STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

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Viscosity, kinematic	≈ 95 mm ² /s
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11.2. Information on other hazards

No additional information available

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SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

Not rapidly degradable

Additional information : Based on available data, the classification criteria are not met.

12.2. Persistence and degradability

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Persistence and degradability	Biodegradability in water: no data available.
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12.3. Bioaccumulative potential

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Bioaccumulative potential	No bioaccumulation potential.
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12.4. Mobility in soil

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Additional information	Mobility is considered to be very low due to rapid polymerisation with water.
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12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Additional information : No other effects known

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Do not dispose of the packaging without first carrying out the necessary cleaning.

Additional information : Empty containers should be taken for recycling, recovery or waste in accordance with local regulation.

SECTION 14: Transport information



In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
UN 3334	UN 3334	UN 3334	UN 3334	UN 3334
14.2. UN proper shipping name				
Aviation regulated liquid, n.o.s. (Ethyl 2-cyanoacrylate)	AVIATION REGULATED LIQUID, N.O.S. (Ethyl 2-cyanoacrylate)	Aviation regulated liquid, n.o.s. (Ethyl 2-cyanoacrylate)	aviation regulated liquid, n.o.s. (Ethyl 2-cyanoacrylate)	Aviation regulated liquid, n.o.s. (Ethyl 2-cyanoacrylate)

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ADR	IMDG	IATA	ADN	RID
Transport document description				
UN 3334 Aviation regulated liquid, n.o.s. (Ethyl 2-cyanoacrylate), 9	UN 3334 AVIATION REGULATED LIQUID, N.O.S. (Ethyl 2-cyanoacrylate), 9	UN 3334 Aviation regulated liquid, n.o.s. (Ethyl 2-cyanoacrylate), 9, III	UN 3334 aviation regulated liquid, n.o.s. (Ethyl 2-cyanoacrylate), 9	UN 3334 Aviation regulated liquid, n.o.s. (Ethyl 2-cyanoacrylate), 9
14.3. Transport hazard class(es)				
9	9	9	9	9
Not applicable			Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	III	Not applicable	Not applicable
14.5. Environmental hazards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available				

14.6. Special precautions for user

Overland transport

Classification code (ADR) : M11
EAC code : 2Z

Transport by sea

Special provisions (IMDG) : 960
Stowage category (IMDG) : None
Properties and observations (IMDG) : Not subject to the provisions of this Code but may be subject to provisions governing the transport of dangerous goods by other modes.

Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y964
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 964
PCA max net quantity (IATA) : 100L
CAO packing instructions (IATA) : 964
CAO max net quantity (IATA) : 220L
Special provisions (IATA) : A27
ERG code (IATA) : 9A

Inland waterway transport

Classification code (ADN) : M11

Rail transport

Classification code (RID) : M11

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

VOC content : < 3 g/l

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Indication of changes:

First aid measures. Firefighting measures. Handling and storage. Stability and reactivity. Accidental release measures. Disposal considerations. Exposure controls/personal protection.

Indication of changes			
Section	Changed item	Change	Comments
2.2	Precautionary statements (CLP)	Modified	
3	Composition/information on ingredients	Modified	

Full text of H- and EUH-statements	
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H301	Toxic if swallowed.
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.

Safety Data Sheet (SDS), EU

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 information contained in this safety data sheet was obtained from a variety of sources and is believed to be accurate and current at the date of issue. RS Components Ltd. and/or its agents cannot accept any liability for the use of information contained in this data sheet or for the use, application or processing of the product described in this data sheet. Users should note the possibility of hazards occurring due to improper uses of the product.