

**ABRO Super Glue Gel**

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier**

Product Name ABRO Super Glue Gel
Product code SG-380
Unique Formula Identifier (UFI) WHJ0-40GU-T00H-CEGY

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

Identified Use(s) Adhesives.
Uses Advised Against Not known.

1.3 Details of the supplier of the safety data sheet**Manufacturer**

Company Identification ABRO Industries Inc
Address of Manufacturer 3580 Blackthorn Court
South Bend
USA
Postal code 46628
Telephone: +1 574-232-8289
Fax Not known.
E-mail abro@abro.com
Office hours

Supplier

Company Identification Granville Oil & Chemicals Ltd
Address of Supplier 29 Goldthorpe Ind. Est.,
Goldthorpe,
Rotherham,
South Yorkshire,
Postal code S63 9BL
Telephone: +44 (0)1709 890099
Fax Not known.
E-mail lab@granvilleoil.com
Office hours 08:00 - 17:00


1.4 Emergency telephone number

Emergency Phone No. +44 111
National response centre NHS Direct

SECTION 2: HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture**

Regulation (EC) No. 1272/2008 (CLP) Skin Irrit. 2 :Causes skin irritation.
Eye Irrit. 2 :Causes serious eye irritation.
STOT SE 3 :May cause respiratory irritation.

**ABRO Super Glue Gel****2.2 Label elements**

	According to Regulation (EC) No. 1272/2008 (CLP)
Product Name	ABRO Super Glue Gel
Contains	ethyl 2-cyanoacrylate, 1,4-dihydroxybenzene hydroquinone quinol
Hazard Pictogram(s)	 GHS07
Signal Word(s)	Warning
Hazard Statement(s)	H315: Causes skin irritation. H319: Causes serious eye irritation. H335: May cause respiratory irritation. EUH208: Contains: (1,4-dihydroxybenzene hydroquinone quinol) May produce an allergic reaction.
Precautionary Statement(s)	P101: If medical advice is needed, have product container or label at hand. P102: Keep out of reach of children. P271: Use only outdoors or in a well-ventilated area. P321: Specific treatment (see Medical Advice on this label). P405: Store locked up. P501: Dispose of contents in accordance with local, state or national legislation.
Unique Formula Identifier (UFI)	WHJ0-40GU-T00H-CEGY
2.3 Other hazards	None known.
2.4 Additional Information	For full text of H/P Statements see section 16.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.1 Substances**

Not applicable.

3.2 Mixtures

HAZARDOUS INGREDIENT(S)	CAS No.	EC No. / REACH Registration No.	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
ethyl 2-cyanoacrylate	7085-85-0		50-100	Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT SE 3 H335	GHS07



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Poly(oxy-1,2-ethanediyl), α -(2-methyl-1-oxo-2-propen-1-yl)- ω -methoxy-	26915-72-0		0.1 - 1	Not classified	None
1,4-dihydroxybenzene hydroquinone quinol	123-31-9		0.1	Acute Tox. 4 H302 Skin Sens. 1 H317 Eye Dam. 1 H318 Muta. 2 H341 Carc. 2 H351 Aquatic Acute 1 H400	GHS05 GHS08 GHS07 GHS09

HAZARDOUS INGREDIENT(S)	CAS No.	Specific Concentration Limit		M-factor	ATE
ethyl 2-cyanoacrylate	7085-85-0	STOT SE 3	C \geq 10.00 \leq 100.00		
1,4-dihydroxybenzene hydroquinone quinol	123-31-9			Aquatic Acute 1: 10	Acute Tox. 4 (H302) : 500

Contains no non-classified vPvB substances.
 Contains no non-classified substances with a Union workplace exposure limit.
 For full text of H/P Statements see section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation Remove to fresh air. If symptoms persist, obtain appropriate medical attention.
 Skin Contact Soak in warm water. Do not pull skin apart. See supplemental section for emergency action.
 Eye Contact Flush with warm water. If eyelids are bonded closed, release eyelashes with warm water by covering the eye with a wet pad. Do not force eye open. See supplemental section for emergency action.
 Ingestion Ingestion is unlikely. See supplemental section for emergency action.

4.2 Most important symptoms and effects, both acute and delayed

Cyanoacrylate adhesive is a very fast setting and strong adhesive. It bonds to human tissue and skin in seconds. Experience has shown that accidents due to Cyanoacrylates are best handles by passive, nonsurgical first aid.

4.3 Indication of any immediate medical attention and special treatment needed

Skin Contact Remove excess adhesive. Soak in warm, soapy water. The adhesive will come loose from the skin in several hours. Dried adhesive does not present a health hazard even when bonded to the skin. Avoid contact with clothes, fabrics, rags, or tissue. Contact with these materials may cause polymerization. The polymerization of large amounts of adhesive will generate heat causing smoke, skin burns, and strong, irritating vapors. Wear rubber or polyethylene gloves and an apron when handling large amounts of adhesive.

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Skin Adhesion	First immerse the bonded surfaces in warm, soapy water. Peel off or roll the surfaces open with the end of a blunt edge, such as a spatula or a spoon handle, then remove adhesive with soap and water. Do not try to pull the surfaces apart with a direct opposing action.
Eyelid adhesion	In the event that eyelids are stuck together or bonded to the eyeball, wash thoroughly with warm water and apply a gauze patch. The eye will open without further action, typically in one to two days. There will be no residual damage. Do not try to pull the surfaces apart with a direct opposing action.
Adhesive in eye	Adhesive introduced into the eyes will attach itself to the eye protein and will disassociate from it over intermittent periods, usually several hours. This will cause periods of weeping until clearance is achieved. It is important to understand that disassociation will normally occur within a matter of hours, even with gross contamination.
Mouth	If lips are accidentally stuck together apply lots of warm water and encourage maximum wetting and pressure from saliva inside the mouth. Peel or roll lips apart. Do not try to pull the lips apart with direct opposing action. It is almost impossible to swallow cyanoacrylate. The adhesive solidifies and adheres in the mouth. Saliva will lift the adhesive in one to two days.
Burns	Cyanoacrylate gives off heat on solidification. In rare cases, large drops will increase in temperature enough to cause a burn. Burns should be treated normally after the lump of cyanoacrylate is released from the tissue as described above.
Surgery	It should never be necessary to use such drastic action to separate accidentally bonded skin.

SECTION 5: FIREFIGHTING MEASURES**5.1 Extinguishing media**

Suitable Extinguishing media	Carbon Dioxide, Dry Chemical, Foam.
Unsuitable extinguishing media	None.

5.2 Special hazards arising from the substance or mixture

May decompose in a fire, giving off toxic and irritant vapours.

5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Dike fire control water for later disposal.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation. Ensure full personal protection (including respiratory protection) during removal of spillages.

6.2 Environmental precautions

Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

6.3 Methods and material for containment and cleaning up

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Adsorb spillages onto sand, earth or any suitable adsorbent material. Contain spillages with sand, earth or any suitable adsorbent material. Do not use cloths for clean-up Earth may be shovelled to contain spillage and to avoid contamination of sewers and watercourses.

6.4 Reference to other sections

See Also Section 8, 13.

SECTION 7: HANDLING AND STORAGE**7.1 Precautions for safe handling**

Avoid contact with skin, eyes and clothing. Avoid breathing vapor or mist. Avoid contact with paper goods or fabric. Contact with these materials may cause rapid polymerization which can generate smoke and strong irritating vapours.

7.2 Conditions for safe storage, including any incompatibilities

Store away from heat and direct sunlight to maximize shelf life. Store inside in a dry location. Keep container tightly closed.

7.3 Specific end use(s)

Adhesives.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters****8.1.1 Occupational Exposure Limits**

Occupational Exposure Limits						
SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
Hydroquinone	123-31-9		0.5			
Ethyl cyanoacrylate	7085-85-0			0.3	1.5	

Region Source
United Kingdom UK Workplace Exposure Limits EH40/2005 (Fourth edition, published 2020)

Remark Notes

8.2 Exposure controls

8.2.1. Appropriate engineering controls Local exhaust ventilation is recommended to maintain vapor level below TLV. A washing facility/water for eye and skin cleaning purposes should be present.

8.2.2. Personal protection equipment

Eye Protection

Wear eye protection with side protection (EN166).



Skin protection

Wear protective clothing and gloves: Impervious gloves (EN 374). Polyethylene or non-reactive gloves. Do not use cotton, PVC or wool.

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Respiratory protection Not applicable with good local exhaust. Use NIOSH approved respirator if there is a potential to exceed exposure limits.

Thermal hazards None known.

8.2.3. Environmental Exposure Controls Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Physical state	Liquid.
Colour	Colourless.
Odour	Characteristic.
Melting point/freezing point	Not known.
Boiling point or initial boiling point and boiling range	>150C 302F
Flammability	Not known.
Lower and upper explosion limit	Not known.
Flash Point	>87C 189F
Auto-ignition temperature	Product is not self-igniting.
Decomposition Temperature	Not known.
pH	Not known.
Kinematic Viscosity	Not known.
Solubility	Solubility (Water) : Not known. Solubility (Other) : Not known.
Partition coefficient n-octanol/water (log value)	Not known.
Vapour pressure	Not known.
Specific Gravity	1.05
Density lbs/Gal:	8.762
Relative vapour density	Not known.
Particle characteristics	Not known.

9.2 Other information**SECTION 10: STABILITY AND REACTIVITY****10.1 Reactivity**

None anticipated.

10.2 Chemical Stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous Polymerization Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and alcohols.

10.4 Conditions to avoid

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None anticipated.

10.5 Incompatible materials

Polymerized by contact with water, alcohols, amines, and alkalis.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Acute toxicity - Ingestion	Calculation method : Not classified. Calculation method : Calculated acute toxicity estimate (ATE) Calc ATE - 500000
Acute toxicity - Skin Contact	Calculation method : Not classified.
Acute toxicity - Inhalation	Calculation method : Not classified.
Skin corrosion/irritation	Calculation method : Causes skin irritation.
Serious eye damage/irritation	Calculation method : Causes serious eye irritation.
Skin sensitization data	Calculation method : Not classified.
Respiratory sensitization data	Calculation method : Not classified.
Germ cell mutagenicity	Calculation method : Not classified.
Carcinogenicity	Calculation method : Not classified.
Reproductive toxicity	Calculation method : Not classified.
Lactation	Calculation method : Not classified.
STOT - single exposure	Calculation method : May cause respiratory irritation.
STOT - repeated exposure	Calculation method : Not classified.
Aspiration hazard	Calculation method : Not classified.

11.2 Information on other hazards

Not known.

SECTION 12: ECOLOGICAL INFORMATION**12.1 Toxicity**

	Harmful to aquatic life.
Toxicity - Aquatic invertebrates	Not known.
Toxicity - Fish	Not known.
Toxicity - Algae	Not known.
Toxicity - Sediment Compartment	Not classified.
Toxicity - Terrestrial Compartment	Not classified.

12.2 Persistence and degradability

Not known.

12.3 Bioaccumulative potential

Not known.

12.4 Mobility in soil

Not known.

12.5 Results of PBT and vPvB assessment

Not known.

12.6 Endocrine disrupting properties

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None known.

12.7 Other adverse effects

Not known.

SECTION 13: DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Dispose of contents in accordance with local, state or national legislation. Send to a licensed recycler, reclaimer or incinerator. Dispose at suitable refuse site.

13.2 Additional Information

Disposal should be in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION**Not classified as hazardous for transport.****14.1 UN number or ID number**

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not classified as a Marine Pollutant.

14.6 Special precautions for user

Not known

14.7 Maritime transport in bulk according to IMO instruments

Not known

SECTION 15: REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

European Regulations - Authorisations and/or Restrictions On Use

Candidate List of Substances of Very High Concern for Authorisation Not listed

REACH: ANNEX XIV list of substances subject to authorisation Not listed

REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

1,4-dihydroxybenzene hydroquinone quinol (123-31-9), ethyl 2-cyanoacrylate (7085-85-0)

Community Rolling Action Plan (CoRAP)

Hydroquinone (123-31-9)

Hydroquinone (123-31-9)

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Regulation (EU) N° 2019/1021 of the European Parliament and of the Council on persistent organic pollutants

Regulation (EC) N° 1005/2009 on substances that deplete the ozone layer

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

National regulations

Other Not known.

15.2 Chemical Safety Assessment

A REACH chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

LEGEND

Hazard Pictogram(s)



GHS07

GHS05: GHS: Corrosion

GHS08: GHS: Health hazard

GHS09: GHS: Environment

Hazard classification

Acute Tox. 4 : Acute toxicity, Category 4

Skin Irrit. 2 : Skin corrosion/irritation, Category 2

Skin Sens. 1 : Skin sensitization, Category 1

Eye Dam. 1 : Serious eye damage/irritation, Category 1

Eye Irrit. 2 : Serious eye damage/irritation, Category 2

STOT SE 3 : Specific target organ toxicity — single exposure, Category 3

Muta. 2 : Germ cell mutagenicity, Category 2

Carc. 2 : Carcinogenicity, Category 2

Aquatic Acute 1 : Hazardous to the aquatic environment, Acute, Category 1

Hazard Statement(s)

H302: Harmful if swallowed.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

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H319: Causes serious eye irritation.
H335: May cause respiratory irritation.
H341: Suspected of causing genetic defects.
H351: Suspected of causing cancer.
H400: Very toxic to aquatic life.

Precautionary Statement(s)

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P264: Wash hands and exposed skin thoroughly after handling.
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.
P305+P351+P338: 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/doctor if you feel unwell.
P321: Specific treatment (see Medical Advice on this label).
P332+P313: If skin irritation occurs: Get medical advice/attention.
P337+P313: If eye irritation persists: Get medical advice/attention.
P362+P364: Take off contaminated clothing and wash it before reuse.
P403+P233: Store in a well-ventilated place. Keep container tightly closed.
P405: Store locked up.
P501: Dispose of contents in accordance with local, state or national legislation.

Acronyms

ATE : Acute Toxicity Estimate
CAS : Chemical Abstracts Service
CLP : Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DNEL : Derived No Effect Level
EC : European Community
EINECS : European Inventory of Existing Commercial Chemical Substances
LTEL : Long term exposure limit
PBT : Persistent, Bioaccumulative and Toxic
PNEC : Predicted No Effect Concentration
REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals
STEL : Short term exposure limit
STOT : Specific Target Organ Toxicity
vPvB : very Persistent and very Bioaccumulative

Key literature references and sources
for data used to compile the SDS

Regulation (EC) No. 1272/2008 (CLP)

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