

SAFETY DATA SHEET

MEGA FIRM
According to EC Regulation 1907/2006/EC - revision 2015/830

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SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1. Product identifier

Product Name MEGA FIRM
Product Code 11000058M1 (CLP)

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

Recommended use

Adhesive.

1.3. Details of the supplier of the safety data sheet

NCH UK & Ireland, NCH House, Springvale Avenue, Bilston, WV14 0QL Tel (UK): 01902 510200, Tel (Ireland): 042 939 5502
E-mail address technical_uk@nch.com
Website address www.ncheurope.com

1.4. Emergency telephone number

01902 510331 (available during Office Hours)

SECTION 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP/GHS) and its adaptations

Skin irritation: Category 2
Eye irritation: Category 2
STOT- single exposure: Category 3
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.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP/GHS)

Contains ETHYL 2-CYANOACRYLATE & HYDROQUINONE May produce an allergic reaction

Hazard pictograms



Signal word Warning

Hazard Statements

H315 - Causes skin irritation
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation

EU classification for GHS template

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

Precautionary Statements

P312 - Call a POISON CENTER or doctor if you feel unwell
P337 + P313 - If eye irritation persists: Get medical advice/attention
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
P280 - Wear protective gloves/protective clothing/eye protection.
P261 - Avoid breathing vapors.
Keep out of reach of children.
For industrial and institutional use only.

2.3. Other hazards

No additional hazards identified.

The components in this formulation do not meet the criteria for classification as PBT or vPvB. As defined under the regulation EC 1907/2006.

SECTION 3. COMPOSITION / INFORMATION OF INGREDIENTS

3.2 Mixture

Component	CAS-No.	EC No.	EU - REACH reg number	Weight percent	EU - GHS/CLP Classification	Notes
ETHYL 2-CYANOACRYLATE	7085-85-0	230-391-5	01-2119527766-29	50 - 100	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3 (H335)	
HYDROQUINONE	123-31-9	204-617-8	01-2119524016-51	< 0.3	Acute Tox. 4 (H302) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Muta. 2 (H341) Carc. 2 (H351) Aquatic Acute 1 (H400)	

For any H statements mentioned in this section, see the full text in section 16.

SECTION 4. FIRST AID MEASURES**4.1. Description of first aid measures**General advice

Avoid contact with skin, eyes and clothing. Avoid breathing vapours or mists. Get medical attention immediately if symptoms occur. Cyanoacrylates glue skin and eyes in seconds. Bathe in warm water. Do not try to force tissue apart.

Eye Contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists. Eyelid bonding: see a doctor. Do not force apart. Do not peel solidified product off the eyes.

Skin Contact

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists. Care pulling bonded skin apart. Soak in warm water and gently, slowly ease apart.

Ingestion

Rinse mouth with water. Do NOT induce vomiting. If swallowed, seek medical advice immediately and show this container or label. Gently wipe or rinse the inside of the mouth with water. Rapid polymerisation lowers likelihood of swallowing. Saliva aids separation of solidified product.

Inhalation

Remove from the area to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.

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

May cause sensitisation of susceptible persons.

Eye contact

May cause irritation as itching and redness.

Skin contact

May cause irritation as itching or redness.

Ingestion

May cause gastrointestinal irritation seen as nausea, vomiting and diarrhoea. Ingestion of larger amounts may cause effects to the central nervous system (e.g. dizziness, headache).

Inhalation

Inhalation of mists may result in irritation to the respiratory tract. May cause headaches, dizziness, drowsiness and nausea.

4.3. Indication of any immediate medical attention and special treatment neededNotes to physician

Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES**5.1. Extinguishing media**Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use: Water spray. Foam. Carbon dioxide (CO₂). Dry powder.

5.2. Special hazards arising from the substance or mixture

When exposed to high temperatures, the preparation may release dangerous decomposition products such as carbon monoxide and dioxide, smoke and/or nitrogen oxide. Acrylate monomers.

Material can create slippery conditions.

5.3. Advice for firefighters

Firefighters should wear a self-contained breathing apparatus and full protective gear.

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

Avoid contact with skin, eyes, and clothing. Use personal protective equipment. Refer to protective measures listed in sections 7 and 8. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.

6.2. Environmental precautions

Avoid release of neat product into surface water and sanitary sewage system.

6.3. Methods and material for containment and cleaning upMethods for Containment

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Do not use cloths for mopping up. Flood with water to complete polymerization and scrape off floor.

Methods for Cleaning up

Clean preferably with a detergent, do not use solvents. Take up mechanically and collect in suitable container for disposal.

6.4. Reference to other sections

Refer to sections 7, 8 and 13.

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

Avoid contact with skin, eyes and clothing. Avoid breathing vapours or mists. Do not eat, drink or smoke when using this product. Anyone with a history of skin sensitization to any of the substances in this product, should refrain from handling. Ensure adequate ventilation.

7.2. Conditions for safe storage, including any incompatibilities

Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep containers in cool areas out of direct sunlight and away from combustibles. Incompatible with strong bases and oxidising agents. Water reactive.

7.3. Specific end use(s)

No information available.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters**Exposure limits

If vapours, fumes or mists are generated, their concentration in the workplace area should be kept to the lowest reasonable level. For substances.

Component	European Union	The United Kingdom	France	Germany	Austria
ETHYL 2-CYANOACRYLATE		STEL: 0.3 ppm STEL: 1.5 mg/m ³			TWA: 2 ppm TWA: 9 mg/m ³
HYDROQUINONE		STEL: 1.5 mg/m ³ TWA: 0.5 mg/m ³	TWA: 2 mg/m ³	Skin	STEL: 4 mg/m ³ TWA: 2 mg/m ³

Component	Spain	Portugal	Italy	The Netherlands	Switzerland
ETHYL 2-CYANOACRYLATE	TWA: 0.2 ppm	TWA: 0.2 ppm			TWA: 2 ppm TWA: 9 mg/m ³
HYDROQUINONE	TWA: 2 mg/m ³	TWA: 2 mg/m ³			Skin STEL: 2 mg/m ³ TWA: 2 mg/m ³

Component	Denmark	Finland	Norway	Sweden	Czech
ETHYL 2-CYANOACRYLATE	TWA: 2 ppm TWA: 10 mg/m ³	TWA: 0.2 ppm TWA: 1 mg/m ³		2 ppm 10 mg/m ³ 4 ppm 20 mg/m ³	PEL: 1mg/m ³ NPK-P: 2mg/m ³
HYDROQUINONE	Ceiling: 2 mg/m ³	TWA: 0.5 mg/m ³ STEL: 2 mg/m ³	TWA: 0.5 mg/m ³	0.5 mg/m ³ 1.5 mg/m ³	PEL: 2mg/m ³ NPK-P: 4mg/m ³

Component	Poland	Ireland
ETHYL 2-CYANOACRYLATE	NDSch: 2 mg/m ³ NDS: 1 mg/m ³	TWA: 0.2 ppm STEL: 0.6 ppm
HYDROQUINONE	NDSch: 2 mg/m ³ NDS: 1 mg/m ³	TWA: 0.5 mg/m ³ STEL: 1.5 mg/m ³

8.2. Exposure controlsEngineering Measures

General ventilation is normally adequate.

Personal Protective Equipment

Use personal protection equipment as per Directive 89/686/EEC.

Respiratory Protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Conforming to EN 143 eg P2 / P3 Particle filters.

Hand Protection

Wear suitable protective gloves conforming to EN 374. Type of gloves suggested :. Short term use eg occasional contact or splash protection ;. Nitrile rubber (0.4 mm). PVC (0.7mm). Long term use eg continuous wear or immersion ;. Neoprene gloves (0.4 mm). For break through times, refer to glove manufacturers recommendations.

Eye Protection

Safety glasses if the method of use presents the likelihood of eye contact. Approved to EN 166.

General hygiene considerations

Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practise. Wash hands before breaks and at the end of workday.

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

Information below relates to typical values and does not constitute a specification.

Appearance	Colorless	Specific Gravity	1.05 g/cm ³
Physical State	Liquid	Solubility	Insoluble in water
Odour	Acrylic	Autoignition Temperature	No information available.
pH	Not applicable.	Viscosity	Viscous
Melting Point/Range	No information available.	Explosive properties	No information available
Boiling Point/Range	150 °C	Oxidizing Properties	No information available.
Flash Point	87 °C	VOC Content (%)	< 0.1 %
Method	Closed cup		
Evaporation Rate	No information available.		
Flammability Limits in Air %	No information available.		
Vapour Pressure	< 0.01 kPa		
Vapor Density	No information available.		

9.2. Other information

No other information available

SECTION 10. STABILITY AND REACTIVITY**10.1. Reactivity**

Not considered as highly reactive. See further information below.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

The mixture itself will not dangerously react or polymerise to create hazardous conditions in normal use. Avoid radical-forming starting agents, peroxides and reactive metals. Strong bases. Reacts violently with peroxides.

10.4. Conditions to avoid

Extremes of temperature and direct sunlight. Keep away from combustible material.

10.5. Incompatible materials

Peroxides. Reducing agents. Oxidising agents. Acids. Bases. Heavy metals. Water.

10.6. Hazardous decomposition products

None under normal storage conditions and use.

When exposed to high temperatures, the preparation may release dangerous decomposition products such as carbon monoxide and dioxide, smoke and/or nitrogen oxide. Acrylate monomers.

SECTION 11. TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects**Product Information

The product itself has not been tested.

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
HYDROQUINONE	= 298 mg/kg (Rat)	= 74800 mg/kg (Rabbit)	

Sensitisation

May cause sensitisation of susceptible persons.

Skin contact

May cause irritation as itching or redness.

Inhalation

Inhalation of mists may result in irritation to the respiratory tract. May cause headaches, dizziness, drowsiness and nausea.

Ingestion

May cause gastrointestinal irritation seen as nausea, vomiting and diarrhoea. Ingestion of larger amounts may cause effects to the central nervous system (e.g. dizziness, headache).

Eye contact

May cause irritation as itching and redness.

Carcinogenicity

Contains substance(s) with limited evidence of carcinogenic effects below the level for classification.

Mutagenic Effects

Contains substance(s) with limited evidence of mutagenic effects below the level for classification.

Reproductive Effects

There are no known substances in this product with effects on reproduction.

SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity

Product Information

The product itself has not been tested.

Component	Toxicity to Fish	Water Flea	Toxicity to Algae
HYDROQUINONE	LC50 = 0.044 mg/L Oncorhynchus mykiss 96 h LC50 = 0.044 mg/L Pimephales promelas 96 h LC50 0.1 - 0.18 mg/L Pimephales promelas 96 h LC50 = 0.17 mg/L Brachydanio rerio 96 h	0.29: 48 h Daphnia magna mg/L EC50	EC50 = 0.335 mg/L Pseudokirchneriella subcapitata 72 h

12.2. Persistence and degradability

Ecotoxicological properties are substance specific, i.e. bioaccumulation, persistence and degradability. The information is given, where available and appropriate, for substance(s) of the mixture.

12.3. Bioaccumulative potential

Not likely to bioaccumulate. Component information below.

Component	log Pow
HYDROQUINONE	0.5

12.4. Mobility in soil

The product is insoluble and sinks in water.

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB. As defined under the regulation EC 1907/2006.

12.6. Other adverse effects

No data available.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues / Unused Products

Dispose of in accordance with local regulations.

Contaminated Packaging

Empty containers should be taken for local recycling, recovery or waste disposal. Empty remaining contents. Recycle according to official regulations.

EWC waste disposal No

The following EWC/ AVV waste codes may be applicable:

08 04 09* Waste adhesives and sealants containing organic solvents or other dangerous substances

16 03 05* organic wastes containing dangerous substances

Other Information

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific

SECTION 14. TRANSPORT INFORMATION

14.1, 14.2, 14.3, 14.4.

Not classified for transport as dangerous goods

14.5. Environmental hazards

The mixture is not environmentally hazardous for transport

14.6. Special precautions for user

No special precautions.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Packaged product, not typically transported in IBC's.

Additional information

The above information is based on latest transport regulations i.e. ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport.

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

This mixture was classified in compliance with EC Regulation 1272/2008 (CLP) and its adaptations.

Other regulatory information

Packaging <125ml.

15.2. Chemical safety assessment

No safety assessment has been created

SECTION 16. OTHER INFORMATION**Text of H statements mentioned in Section 3**

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. H351 - Suspected of causing cancer. H400 - Very toxic to aquatic life.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Calculation method. H315 - Causes skin irritation. H319 - Causes serious eye irritation. H335 - May cause respiratory irritation.

Prepared By Austen Pimm

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Revision summary

CLP update. SDS sections updated 2 15 3 16

Abbreviations

REACH: Registration Evaluation Authorisation Restriction of Chemicals

EU: European Union

EC: European community

EEC: European Economic Community

UN: United Nations

CAS: Chemical Abstracts Service

PBT: Persistent Bioaccumulative Toxic

vPvB: very Persistent very Bioaccumulative

LC50: Lethal concentration, 50 percent

LD50 : Lethal dose, 50 percent

EC50: Effective concentration, 50 percent

LogPow: LogP octanol/water

VwVwS: Verwaltungsvorschrift wassergefährdende Stoffe (Administrative order relating to substances hazardous to water - Germany)

WGK: Wassergefährdungsklasse (Water Hazard Class - Germany).

AVV: Abfallverzeichnis-Verordnung (Waste Code - Germany)

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (European agreement governing the international carriage of dangerous goods by road)

IMDG: International Maritime Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations concerning the International carriage of Dangerous goods by rail)

EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods

ERG: Emergency Response Guidebook

IUCLID / RTECS International Uniform Chemical Information Database / Registry of Toxic Effects of Chemical Substances

GHS: Globally Harmonised System of classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

VOC: Volatile Organic Chemical

w/w: weight for weight

DMSO: Dimethyl sulphoxide

OECD: Organization for Economic Cooperation and Development

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

Further Information

Component test results displayed in sections 11 and 12 are typically supplied by Chemadvisor and assembled from publicly available literature sources e.g. IUCLID / RTECS

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet