

SAFETY DATA SHEET

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

Revision No. 2.1

Print Date 18/04/2017

Creation Date 02/02/2015

Revision Date 11/06/2016

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

1.1. Product identifier

Product Name MEGA FIRM PLUS ADHESIVE / MEGA FIRM EXTRA
Product Code EP_0933P1G M1 (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) Ltd NCH House Springvale Avenue Bilston WV14 0QL Tel: 01902 510200
NCH Ireland Ltd. The Brewery Business Park, Ardee Road Dundalk, County Louth, Tel: 042 9395500
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

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.
 For industrial and institutional use only.
 Keep out of reach of children.

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	Classification	EU - GHS/CLP Classification	Notes
ETHYL 2-CYANOACRYLATE	7085-85-0	230-391-5	01-21195277 66-29	50 - 100	Xi; R36/37/38	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3 (H335)	

For any H statements and R phrases 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

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

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

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

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 delayed

Sensitisation

No information available.

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 needed

Notes 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 up

Methods 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). Add water to ensure complete polymerisation.

Methods for Cleaning up

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

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. 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
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SAFETY DATA SHEET According to EC Regulation 1907/2006/EC - revision 2015/830**Product Name** MEGA FIRM PLUS ADHESIVE / MEGA FIRM EXTRA**Product Code** EP_0933P1G**Print Date** 18/04/2017

ETHYL 2-CYANOACRYLATE		STEL: 0.3 ppm STEL: 1.5 mg/m ³			TWA: 2 ppm TWA: 9 mg/m ³
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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

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

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

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

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

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.

Sensitisation

No information available.

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

There are no known carcinogenic substances in this product.

Mutagenic Effects

There are no known mutagenic substances in this product.

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.

12.2. Persistence and degradability

Persistence and degradability are substance specific, no test data is available on the constituents of this mixture to degrade or persist in the environment, either through biodegradation or other processes, such as oxidation or hydrolysis.

12.3. Bioaccumulative potential

Not likely to bioaccumulate. Component information below.

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 chemical safety assessment has been carried out for this mixture by the supplier

SECTION 16. OTHER INFORMATION

Text of H statements mentioned in Section 3

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

Text of R phrases mentioned in Section 3

. R36/37/38 - Irritating to eyes, respiratory system and skin.

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

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