SAFETY DATA SHEET

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

Revision No. 3.1

Print Date 18/04/2017 **Creation Date** 02/02/2015 **Revision Date** 23/11/2016

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

1.1. Product identifier

Product Name PM MEGA SPEED
Product Code EP_0905G M2 (CLP)

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

Recommended use
Adhesive. Activator.

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
Flammable liquid: Category 2
Eye irritation: Category 2
STOT- single exposure: Category 3
H225 - Highly flammable liquid and vapour
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness
EUH066 - Repeated exposure may cause skin dryness or cracking.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP/GHS)
Contains ACETONE
Hazard pictograms

Signal word DANGER
Hazard Statements
H225 - Highly flammable liquid and vapour
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness
EU classification for GHS template
EUH066 - Repeated exposure may cause skin dryness or cracking.

Precautionary Statements
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P312 - Call a POISON CENTER or doctor if you feel unwell
P403 + P235 - Store in a well-ventilated place. Keep cool
P337 + P313 - If eye irritation persists: Get medical advice/attention
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
ACETONE	67-64-1	200-662-2	01-2119471330-49	50 - 100	F; R11 Xi; R36 R66 R67	Eye Irrit. 2 (H319) STOT SE 3 (H336) Flam. Liq. 2 (H225) (EUH066)	
N, N-DIMETHYL-P-TOLUIDINE	99-97-8	202-805-4	01-2119937766-23	1 - < 3	T; R23/24/25 R33 R52-53	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) STOT RE 2 (H373) Aquatic Chronic 3 (H412)	-

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
Avoid breathing vapours or mists. 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. Call a physician immediately.
Skin Contact
Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.
Ingestion
Rinse mouth with water. If swallowed, do not induce vomiting - seek medical advice.
Inhalation
If problems with breathing occur, move to fresh air. If symptoms persist, call a physician.

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
Unlikely to be irritant on brief or occasional exposure.

Ingestion
Ingestion may cause irritation to mucous membranes.
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:. Dry powder. Alcohol-resistant foam. Water spray.
Extinguishing media which must not be used for safety reasons
Water jet.

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.
Possibility of harm to the aquatic life. Avoid release into the environment.

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. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions. See section 8. Remove all sources of ignition. Ventilate the area. Evacuate personnel to safe areas.

6.2. Environmental precautions
Avoid release of neat product into surface water and sanitary sewage system. Prevent further leakage or spillage if safe to do so. Insoluble in water and hence will float on the surface. Local authorities should be advised if significant spillages cannot be contained.

6.3. Methods and material for containment and cleaning up
Methods for Containment
Contain spillage, soak up with non-combustable absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Remove all sources of ignition.
Methods for Cleaning up
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 breathing vapours or mists. Do not eat, drink or smoke when using this product. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Never siphon by mouth. Ensure adequate ventilation.
Use of secondary containment is recommended i.e impermeable floors / surfaces which will help contain any spills.

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 away from heat and sources of ignition. Store in accordance with local regulations.

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
ACETONE		STEL: 1500 ppm STEL: 3620 mg/m³ TWA: 500 ppm TWA: 1210 mg/m³	TWA: 500 ppm TWA: 1210 mg/m³ STEL: 1000 ppm STEL: 2420 mg/m³	AGW: 500ppm AGW: 1200mg/m³ Peak: 1000ppm Peak: 2400mg/m³ TWA: 500ppm TWA: 1200mg/m³ BGW: 80mg/L	STEL: 2000 ppm STEL: 4800 mg/m³ TWA: 500 ppm TWA: 1200 mg/m³

Component	Spain	Portugal	Italy	The Netherlands	Switzerland
ACETONE	TVA: 500 ppm TWA: 1210 mg/m³	STEL: 750 ppm TWA: 500 ppm TWA: 1210 mg/m³	TWA: 500 ppm TWA: 1210 mg/m³	STEL: 2420 mg/m³ TWA: 1210 mg/m³	STEL: 1000 ppm STEL: 2400 mg/m³ TWA: 500 ppm TWA: 1200 mg/m³

Component	Denmark	Finland	Norway	Sweden	Czech
ACETONE	TWA: 250 ppm TWA: 600 mg/m³	TWA: 500 ppm TWA: 1200 mg/m³ STEL: 630 ppm STEL: 1500 mg/m³	TWA: 125 ppm TWA: 295 mg/m³	250 ppm 600 mg/m³ 500 ppm 1200 mg/m³	PEL: 800mg/m³ NPK-P: 1500mg/m³
N, N-DIMETHYL-P-TOLUIDINE					PEL: 5mg/m³ NPK-P: 10mg/m³

Component	Poland	Ireland
ACETONE	NDSCh: 1800 mg/m³ NDS: 600 mg/m³	TWA: 500 ppm TWA: 1210 mg/m³

8.2. Exposure controls

Engineering Measures
Local ventilation is suggested to control exposure from operations that can generate significant levels of vapour, mist or fumes.
Personal Protective Equipment
Use personal protection equipment as per Directive 89/686/EEC.
Respiratory Protection
In case of inadequate ventilation wear respiratory protection. Conforming to EN 141 (organic vapours). Do not breathe vapours or spray mist.
Hand Protection
Wear suitable protective gloves conforming to EN 374. Type of gloves suggested :. Solvent-resistant gloves (butyl-rubber). Fluorinated rubber. Polyvinyl alcohol. 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	Light yellow	**Specific Gravity**	0.79
Physical State	Liquid	**Solubility**	Partially soluble in water
Odour	Solvent	**Autoignition Temperature**	No information available.
pH	Not applicable.	**Viscosity**	No information available
Melting Point/Range	-85 °C	**Explosive properties**	No information available
Boiling Point/Range	77 °C	**Oxidizing Properties**	No information available.
Flash Point	1 °C	**VOC Content (%)**	100 %
Method	Closed cup		
Evaporation Rate	No information available.		
Flammability Limits in Air %			
Upper flammability limit:	10.5		
Lower	8		
Vapour Pressure	61mm Hg @ 20C		
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.
10.4. Conditions to avoid
Heat, flames, and sparks.
10.5. Incompatible materials
Strong oxidising agents. Strong acids.
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.

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
ACETONE			= 50100 mg/m³ (Rat) 8 h
N, N-DIMETHYL-P-TOLUIDINE	= 1650 mg/kg (Rat)	> 2000 mg/kg (Rat)	= 1400 mg/m³ (Rat) 4 h

Sensitisation
No information available.
Skin contact
Unlikely to be irritant on brief or occasional exposure.
Inhalation
Inhalation of mists may result in irritation to the respiratory tract. May cause headaches, dizziness, drowsiness and nausea.
Ingestion
Ingestion may cause irritation to mucous membranes.
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.
Ecotoxicity effects
Contains substance(s) known to be hazardous to the aquatic environment.

Component	Toxicity to Fish	Water Flea	Toxicity to Algae
ACETONE	LC50 4.74 - 6.33 mL/L Oncorhynchus mykiss 96 h LC50 6210 - 8120 mg/L Pimephales promelas 96 h LC50 = 8300 mg/L Lepomis macrochirus 96 h	10294 - 17704: 48 h Daphnia magna mg/L EC50 Static 12600 - 12700: 48 h Daphnia magna mg/L EC50	
N, N-DIMETHYL-P-TOLUIDINE	LC50 42 - 50.5 mg/L Pimephales promelas 96 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
Bioaccumulation unlikely due to the high volatility of the product. Component information below.

Component	log Pow
ACETONE	-0.24
N, N-DIMETHYL-P-TOLUIDINE	2.81

12.4. Mobility in soil
This preparation is volatile and will readily evaporate to the air if released into the environment.
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. Recycle according to official regulations. For empty containers - Do not weld, solder, braze, grind etc.. Do not expose to heat, flames, sparks or other sources of ignition.
EWC waste disposal No
The following EWC/ AVV waste codes may be applicable:
07 07 04* other organic solvents, washing liquids and mother liquors
08 04 09* Waste adhesives and sealants containing organic solvents or other 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.
IMDG/IMO

UN-No	UN1090
Proper Shipping Name	ACETONE
Hazard Class	3
Packing Group	II
EmS	F-E, S-D

ADR / RID

UN-No	UN1090
Hazard Class	3
Packing Group	II
Classification Code	F1
Limited Quantity	1 L
Transport Cat. (Tunnel Restriction Code)	2 (D/E)

IATA/ICAO

UN-No	UN1090
Hazard Class	3
Packing Group	II
ERG Code	3H
Shipping Description	Acetone,3,UN1090,PG II

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
Transport product in compliance with provisions of the 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
H225 - Highly flammable liquid and vapour. H301 - Toxic if swallowed. H311 - Toxic in contact with skin. H319 - Causes serious eye irritation. H331 - Toxic if inhaled. H336 - May cause drowsiness or dizziness. H373 - May cause damage to organs through prolonged or repeated exposure. H412 - Harmful to aquatic life with long lasting effects. EUH066 - Repeated exposure may cause skin dryness or cracking.
Text of R phrases mentioned in Section 3
R11 - Highly flammable. R33 - Danger of cumulative effects. R36 - Irritating to eyes. R67 - Vapours may cause drowsiness and dizziness. R66 - Repeated exposure may cause skin dryness or cracking. R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed. R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]
On the basis of test data. H224 - Extremely flammable liquid and vapour. Calculation method. H319 - Causes serious eye irritation. H336 - May cause drowsiness or dizziness.
Prepared By Austen Pimm
Creation Date 02/02/2015
Revision Date 23/11/2016
Revision Summary
Revised classification

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: Wassergefahrdungsklasse (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: Reglement international concernant le transport des merchandises dangereuses par chemin der 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