1. Identification of the Substance/Preparation and the Company Undertaking

Product Name	Effast MEK Cleaner
Supplier	Polypipe College Road New Hythe Business Park Aylesford Kent ME20 7PJ
Emergency Telephone	Tel. +31 88 3235700 (24 Hours)
Application	Cleaning Agent

2. Hazard Identification

Hazard Description
2.1 Classification of the substance or mixture classification according to regulation (EC) No 1272/2008

GHS07 Eye irrit.2 — H319 Causes serious eye irritation
STOT SE 3 — H336 May cause drowsiness or dizziness

Flam. Liq. 2 — H225 Highly flammable liquid and vapour

2.2 Label elements
Labelling according to regulation (EC) No 1272/2008
The product is classified and labelled according to the CLP regulation

Hazard pictograms

GHS07 GHS02

Signal word
Danger

Hazard-determining components of labelling:
Methyl Ethyl Ketone

Hazard statements
H225 Highly flammable liquid and vapor
H319 Causes serious eye irritation
H336 May cause drowsiness or dizziness
Precautionary statements
P101 If medical advice is needed, have product container or label at hand
P102 Keep out of reach of children
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources, no smoking
P261 Avoid breathing vapors
P370+378 In case of fire: Use to extinguish: Water haze, alcohol resistant foam, fire-extinguishing powder, carbon dioxide
P403+233 Store in a well ventilated place. Keep container tightly closed
P501 Dispose of contents/container in accordance with national regulations
Additional information
EUH066 Repeated exposure may cause skin dryness or cracking

2.3 Other hazards
Results of PBT and vPvB assessment
PBT: Not applicable
vPvB: Not applicable

3. Composition/Information on Ingredients

3.1 Mixtures
Description: Adhesive
Dangerous Components:

CAS: 78-93-3	Methyl Ethyl Ketone	50-100%
EINECS: 201-159-0	FlamLiq2, H225; Eye Irrit.2, H319;	STOT SE3, H336
Reg.Nr: 01-2119457290-43		

Additional information
For the wording of the listed hazard phases refer to section 16

4. First Aid Measures

4.1 Description of first aid measures
After inhalation
Supply fresh air; consult doctor in case of complaints

After eye contact
Rinse opened eye contact for several minutes under running water. If symptoms persist, consult a doctor

After skin contact
Generally the product does not irritate the skin

After swallowing
Do not induce vomiting; call for medical help immediately

4.2 Most important symptoms and effects, both acute and delayed
No further relevant information available
4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available

5. Fire Fighting Measures

5.1 Extinguishing media
Suitable extinguishing agents:
Water haze, Alcohol resistant foam, fire-extinguishing powder and carbon dioxide
For safety reasons unsuitable extinguishing agents:
Water with full jet

5.2 Special hazards arising from the substance or mixture
No further information available

5.3 Advice for firefighters
Protective equipment: Mount respiratory protective device
Additional information
Cool endangered receptacles with water spray.
Collect contaminated firefighting water separately. It must not enter the sewage system

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions
Prevent seepage into sewage system, work pits and cellars
Do not allow to enter sewers / surface or ground water

6.3 Method and material for containment and cleaning up
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust)
Dispose contaminated material as waste according to item 13
Ensure adequate ventilation

6.4 Reference to other sections
See section 7 for information on safe handling
See section 8 for information on personal protective equipment
See section 13 for disposal information

7. Handling and Storage

7.1 Precautions for safe handling
Ensure good ventilation / exhaustion at the workplace
Prevent formation of aerosols
Ensure good interior ventilation, especially at floor level, (Fumes are heavier than air)
Information about fire – And explosion protection
Keep ignition sources away – Do not smoke
Protect against electrostatic charges

7.2 Conditions for safe storage, including any incompatibilities
Storage:
Requirements to be met by store rooms and receptacles Store in cool location
Information about storage in one common storage facility Not required
Further information about storage conditions
Keep receptacle tightly sealed and store in cool, dry conditions in well-sealed receptacles
7.3 Specific end use(s)
No further relevant information available

8. Exposure Control/Personal Protection

Additional information about design of technical facilities
No further data; see item 7

8.1 Control parameters
Ingredients with limit values that require monitoring at the workplace:
78-93-3 Methyl Ethyl Ketone

WEL (Great Britain)	Short term value: 899 mg/m³, 300 ppm Long term value: 600 mg/m³, 200 ppm Sk, BMGV
IOELV (European Union)	Short term value: 900 mg/m³, 300 ppm Long term value: 600 mg/m³, 200 ppm

Ingredients with biological limit values
78-93-3 Methyl Ethyl Ketone

BMGV (great Britain)	70 umol/L Medium: Urine Sampling time: Post shift Parameter: butan-2-one

Additional information:
The lists valid during the making were used as basis

8.2 Exposure controls
Personal protective equipment
General protective and hygienic measures
The usual precautionary measures are to be adhered to when handling chemicals
Keep away from foodstuffs, beverages and feed
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work
Do not inhale gases / fumes / aerosols
Avoid contact with eyes
Avoid contact with eyes and skin
Respiratory equipment
Use suitable respiratory protective device in case of insufficient ventilation
Recommended filter for short term use: Filter A
Protection of hands
Solvent resistant gloves
The gloves material has to be impermeable and resistant to the product / the substance / the preparation
Due to missing tests no recommendation to the glove material can be given for the product / the preparation / the chemical mixture
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
Material of gloves
The selection of suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacture. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application
Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed
For the permeant contact of a maximum of 15 minutes gloves made of the following gloves are suitable
PVC or PE gloves
Eye protection
Tightly sealed goggles
Body protection
Solvent resistant protective clothing

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

General information	
Appearance	
Form	Fluid
Colour	Colourless
Odour	Like Ketone
Odour threshold	Not determined
pH-value	Not determined
Change in condition	
Melting point/melting range	-86.3 ℃
Boiling point/boiling range	79-80.5 ℃
Flash point	- 4 ºC
Flammability (solid, gaseous)	Not applicable
Ignition temperature	514 ºC
Decomposition temperature	Not determined
Self-igniting	Not determined
Danger of explosion	Product is not explosive. However formation of explosive air mixtures is possible
Explosion limits	
Lower	1.8 Vol %
Upper	11.5 Vol %
Vapour pressure at 20 ºC	105 hPa
Density at 20 ºC	0.82 g/cm³
Relative density	Not determined
Vapour density	Not determined
Evaporation rate	Not determined
Solubility in / miscibility with water	290 g/l
Partition coefficient (n-octanol/water)	Not determined
Viscosity	
Dynamic at 15 ºC	0.423 mPas
Kinematic	Not determined

9.2 Other information All relevant physical data were determined for the mixture. All non-determined data are not measureable or not relevant for the characterisation of the mixture

10. Stability and Reactivity

10.1 Reactivity
No further relevant information available
10.2 Chemical stability
Thermal decomposition / conditions to be avoided
No decomposition if used according to specifications
10.3 Possibility of hazardous reactions
No dangerous reactions known
10.4 Conditions to avoid
No further relevant information available
10.5 Incompatible materials
No further relevant information available
10.6
Danger of forming toxic pyrolysis products

11. Toxicological Information

11.1 Information on toxicological effects
Acute toxicity Based on available data, the classification criteria are not met
LD/LC50 values relevant for classification
73-93-3 Methyl Ethyl Ketone

Oral	LD50	3300 Mg/Kg (Rat)
Dermal	LD50	5000 Mg/Kg (Rbt)

Primary irritant effect
Skin corrosion / irritation
Based on available data, the classification criteria are not met

Serious eye damage / irritation
Causes serious eye irritation

Respiratory or skin sensitisation
Based on available data, the classification criteria are not met

12. Ecological Information

12.1 Toxicity
Aquatic toxicity:
No further relevant information available

12.2 Persistence and degradability
No further relevant information available

12.3 Bioaccumulative potential
No further relevant information available

12.4 Mobility in soil
No further relevant information available

Additional ecological information
General notes:
Water hazard class 1 (German assessment) (Assessment by list): Slightly hazardous for water, do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system

12.5 Results of PBT and vPvB assessment
PBT: Not applicable
vPvB: Not applicable

12.6 Other adverse effects
No further relevant information available

13. Disposal Considerations

13.1 Waste treatment methods
Recommendation
Must not be disposed together with household garbage
Do not allow product to reach sewer system

Uncleaned packaging
Recommendation
Disposal must be made according to official regulations
Packagings that may not be cleansed are to be disposed of in the same manner as the product

14. Transport Information

14.1 UN Number
ADR, ADN, IMDG, IATA UN1193

14.2 UN Proper shipping name
ADR / ADN 1193 ETHYL METHYL KETONE (METHYL ETHYL KETONE)
IMDG, IATA **E**THYL METHYL KETONE (METHYL ETHYL KETONE)

14.3 Transport hazard class(es)
ADR/ADN

Class 3 (F1) Flammable liquids
Label 3

IMDG, IATA

Class 3 Flammable Liquids
Label 3
14.4 Packing Group
ADR, ADN, IMDG, IATA II
14.5 Environmental hazards
Marine pollutant No
14.6 Special precautions for user Warning: Flammable liquids
Danger code (Kemler) 33
EMS Number F-E, S-D
Stowage capacity B
14.7 Transport in bulk according to Annex II of Marpol and the IBC code Not applicable
Transport / additional information

ADR/ADN	
Limited quantities (LQ)	1L
Excepted Quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
Transport category	2
Tunnel restriction code	D/E
IMDG	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
Remarks	Under certain conditions substances in class 3 (flammable liquids) can be classified in packaging group III See IMDG, Part 2, Chapter 2.3, Paragraph 2.3.2.2
UN "Model Regulation"	**U**N1193, ETHYL METHYL KETONE (METHYL ETHYL KETONE), 3, II

15. Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Labelling according to Regulation (EC) No 1272/2008
The substance is classified and labelled according to the CLP regulation.
Hazard pictograms
GHS02 GHS07
Signal word Danger
Hazard-determining components of labelling:
methyl ethyl ketone
Hazard statements
H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
Precautionary statements
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 Avoid breathing vapours.
P370+P378 In case of fire: Use to extinguish: Water haze, Alcohol resistant foam, Fire-extinguishing powder, Carbon dioxide.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/container in accordance with national regulations.
Directive 2012/18/EU
Named dangerous substances - ANNEX I Substance is not listed.
Seveso category P5c FLAMMABLE LIQUIDS
Qualifying quantity (tonnes) for the application of lower-tier requirements
5,000 t
Qualifying quantity (tonnes) for the application of upper-tier requirements
50,000 t
15.2 Chemical safety assessment:
A Chemical Safety Assessment has not been carried out.

16. Other Information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship

Relevant phases

H225	Highly flammable liquid and vapour
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness

Abbreviations and acronyms

Flam. Liq. 2:	Flammable liquids – Category 2
Eye Irrit. 2:	Serious eye damage / eye irritation – Category 2
STOT SE 3:	Specific target organ toxicity (single exposure) – Category 3