

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 30.05.2017

Revision: 30.05.2017

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name: POLYMASTIC I**
- **Article number: 36026A**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **1.2.1 Relevant identified uses**
- **Sector of Use**
 - SU3 Industrial uses: uses of substances as such or in preparations at industrial sites
 - SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
 - SU21 Consumer uses: Private households / general public / consumers
- **Product category PC1 Adhesives, sealants**
- **Process category PROC4 Chemical production where opportunity for exposure arises**
- **Environmental release category ERC5 Use at industrial site leading to inclusion into/onto article**
- **Application of the substance / the preparation : Adhesive**
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
 - EMFI S.A.S.
 - 3 RUE ETTORE BUGATTI
 - BP 40030
 - 67501 HAGUENAU CEDEX
 - FRANCE
 - Phone: 33 3 88 90 60 00
 - Fax : 33 3 88 73 48 38
 - E-mail : emfi.sdsquestions@mmm.com
 - Internet : <http://www.emfi.com>
- **Information department: Laboratory**
- **1.4 Emergency telephone number: ORFILA: +33 (0)1 45 42 59 59 (in France)**

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
 - Flam. Sol. 1 H228 Flammable solid.
 - Skin Irrit. 2 H315 Causes skin irritation.
 - STOT SE 3 H336 May cause drowsiness or dizziness.
 - Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.
- **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**

GHS02 GHS07
- **Signal word Danger**
- **Hazard-determining components of labelling:**
 - Hydrocarbons in C7, n-alkanes, isoalkanes, cyclics
- **Hazard statements**
 - H228 Flammable solid.

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- H315 Causes skin irritation.
 H336 May cause drowsiness or dizziness.
 H412 Harmful to aquatic life with long lasting effects.

- **Precautionary statements**

- P261 Avoid breathing vapours.
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P280 Wear protective gloves.
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P501 Dispose of contents and container in accordance with local regulations.

- **Phrases in case of sale to the general public**

- This product is not to be used under conditions of poor ventilation.
 This product is not to be used for carpet laying.
 P280 Wear protective gloves.

- **Advised precautionary statements** P102 Keep out of reach of children.

- **Additional information** : Sale forbidden to general public in packagings containing more than 350 g

- **2.3 Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT**: Not applicable.
- **vPvB**: Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**

- **Description**: Adhesive based on synthetic rubbers and resins in highly flammable liquids.

- **Dangerous components:**

EC number: 927-510-4 Reg.nr.: 01-2119475515-33	Hydrocarbons in C7, n-alkanes, isoalkanes, cyclics ⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H336	15-25%
CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49	acetone ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	2-5%

- **Components contained in hydrocarbons with exposure limit values**

CAS 110-82-7 : < 0.5 %

CAS: 110-82-7 EINECS: 203-806-2 Reg.nr.: 01-2119463273-41	cyclohexane ⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336
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- **Additional information** : For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**

- **After inhalation**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness, place patient stably in side position for transportation.

- **After skin contact** Wash with water and soap.

- **After eye contact** Rinse opened eye for several minutes under running water. Then consult a doctor.

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

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- **4.2 Most important symptoms and effects, both acute and delayed**
Headache
Dizziness
Drowsiness
Gastric or intestinal disorders.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents** CO₂, extinguishing powder or water spray.
- **For safety reasons unsuitable extinguishing agents** Water with full jet.
- **5.2 Special hazards arising from the substance or mixture**
In case of fire, the following can be released:
Carbon monoxide (CO)
In certain fire conditions, traces of other toxic gases cannot be excluded.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Particular danger of slipping on leaked/spilled product.
Ensure adequate ventilation.
Keep away from ignition sources.
Use respiratory protective device against the effects of fumes/dust/aerosol.
- **6.2 Environmental precautions:** Do not allow product to reach sewage system or any water course.
- **6.3 Methods and material for containment and cleaning up:**
Pick up mechanically.
Send for recovery or disposal in suitable receptacles.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
- **Information about protection against explosions and fires:**
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 storerooms and receptacles:**
Store in a cool location.
Provide ventilation for receptacles.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.

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- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

· 8.1 Control parameters

- **Components with limit values that require monitoring at the workplace:**

67-64-1 acetone

WEL	Short-term value: 3620 mg/m ³ , 1500 ppm Long-term value: 1210 mg/m ³ , 500 ppm
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- **CAS No. Designation of material % Type Value Unit**

- **Additional Occupational Exposure Limit Values for possible hazards during processing:**

142-82-5 heptane

WEL	Long-term value: 2085 mg/m ³ , 500 ppm
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- **Additional information:** The lists that were valid during the creation were used as basis.

· 8.2 Exposure controls

· Personal protective equipment

· General protective and hygienic measures

Wash hands before breaks and at the end of work.

Avoid close or long term contact with the skin.

Avoid contact with the skin.

Do not eat, drink, smoke while working.

· Breathing equipment:

Use suitable respiratory protective device in case of insufficient ventilation:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Short term filter device:

Filter AX

· Protection of hands:

PVA gloves of superior quality.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Eye protection: Tightly sealed goggles.

· Body protection: Protective work clothing.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

Form:	Pasty
Colour:	Light beige
Odour:	without

· Change in condition

Melting point/freezing point:	undetermined
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Initial boiling point and boiling range: 56 °C	
· Flash point:	-18 °C (in closed cup)
· Self-ignition temperature:	> 200 °C
· Decomposition temperature:	> 120 °C
· Self igniting:	Product is not selfigniting at room temperature.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible
· Explosion limits:	
Lower:	1 Vol %
Upper:	13 Vol %
· Vapour pressure at 20 °C:	< 250 hPa
· Density at 20 °C:	1.34
· Solubility in / Miscibility with Water:	Slightly soluble
· Viscosity:	
dynamic at 20 °C:	250 000 mPa.s
· Solvent content:	
Organic solvents:	25 ± 5 %
· 9.2 Other information	No further relevant information available.

SECTION 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** Reacts with strong oxidising agents.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** None to our knowledge at room temperature.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values that are relevant for classification:**

Hydrocarbons in C7, n-alkanes, isoalkanes, cyclics

Oral	LD50	1700 mg/kg (RAT)
Dermal	LD50	> 2000 mg/kg (LAPIN)
Inhalative	LC50/4 h	60 mg/l (RAT)

- **Primary irritant effect:**
- **Skin corrosion/irritation**
Frequent or prolonged contact may irritate and cause dermatitis.
Causes skin irritation.

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- **Serious eye damage/irritation** May cause irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**
May cause drowsiness or dizziness.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 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.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.
Do not allow product to reach ground water, water course or sewage system.
The product contains materials that are harmful to the environment.
Harmful to aquatic organisms
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Must be disposed of in an incinerator for hazardous waste according to official regulations.
- **Waste disposal key:** 08 04 09*
- **Uncleaned packaging :**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- | | |
|---------------------------------------|--|
| · 14.1 UN-Number | |
| · ADR, ADN, IMDG, IATA | UN3175 |
| · 14.2 UN proper shipping name | |
| · ADR | 3175 SOLIDS CONTAINING FLAMMABLE LIQUID,
N.O.S. (HEPTANES, ACETONE) |
| · ADN | UN3175 |

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· IMDG, IATA	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (HEPTANES, ACETONE)
· 14.3 Transport hazard class(es) · ADR, IMDG, IATA	
	
· Class · Label · ADN/R Class:	4.1 Flammable solids, self-reactive substances and solid desensitised explosives. 4.1 UN3175
· 14.4 Packing group · ADR, IMDG, IATA	II
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user · Danger code (Kemler): · EMS Number: · Stowage Category	Warning: Flammable solids, self-reactive substances and solid desensitised explosives. 90 F-A,S-I B
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ)	1 kg Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g
· Tunnel restriction code · Limited quantities (LQ) · Excepted quantities (EQ)	E 1 kg Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g
· UN "Model Regulation":	UN 3175 SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (HEPTANES, ACETONE), 4.1, II

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations**
- **French VOC regulation (decree n° 2011-321) : Class A+**
- **15.2 Chemical safety assessment: A Chemical Safety Assessment has been carried out.**

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SECTION 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.

This data sheet is particularly in accordance with the european regulations 1907/2006/EC, 1272/2008/EC and their amendments ; it is written according to annex II of the european regulation 830/2015/EC.

- **Relevant phrases**

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

- **Department issuing SDS:** Laboratory

- **Contact:** cf. § 1

- **Review :**

An asterisk in the margin of a paragraph means amendments in comparison to the former version.

- **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Sol. 1: Flammable solids – Category 1

Acute Tox. 4: Acute toxicity – Category 4

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

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

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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Annex: Exposure scenario

- **Short title of the exposure scenario**
- **Sector of Use**
 - SU3 Industrial uses: uses of substances as such or in preparations at industrial sites
 - SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
 - SU21 Consumer uses: Private households / general public / consumers
- **Product category**
 - PC1 Adhesives, sealants
 - PC9a Coatings and paints, thinners, paint removers
- **Conditions of use** According to directions for use.
- **Duration and frequency**
 - SU3 et SU22 / PC1 (adhesives, sealants) :
8 hour(s)/day
 - SU21, PC1 (adhesives, sealants) :
Up to 1 times per day, 365 days per year
up to 1 hour(s) per day
 - SU21 / PC1 (adhesives, sealants) and PC9a (solvents, thinners) :
Up to 1 time(s) per day, 3 day(s) per year
Up to 2 hour(s) per day
- **Physical parameters** Predominantly hydrophobic.
- **Physical state** Fluid
- **Other operational conditions**
- **Other operational conditions affecting environmental exposure**
 - Local fresh water dilution factor: 10
 - Local marine water dilution factor : 100
 - Observe section 6 of the Safety Data Sheet (Accidental release measures).
- **Other operational conditions affecting worker exposure**
 - Take precautionary measures against static discharge.
 - Keep away from sources of ignition - No smoking.
- **Other operational conditions affecting consumer exposure**
 - SU3 et SU22 / PC1 (adhesives, sealants) :
Concentrations up to 100 %
 - SU21, PC1 (adhesives, sealants) :
Concentrations up to 30 %
Amounts used/applied per event : 75 g
Exposed skin surface : 35.73 cm²
Room volume : > 20 m³
Provide good general ventilation (at least 0.6 air change(s) per hour)
 - SU21 / PC9a (solvents, thinners) :
Concentrations up to 50 %
Amounts used/applied per event : 491 g
Exposed skin surface : 857.5 cm²
Room volume : > 20 m³
Provide good general ventilation (at least 0.6 air change(s) per hour)
- **Other operational conditions affecting consumer exposure during the use of the product**
 - Application temperature : room temperature
- **Risk management measures**
- **Worker protection**
 - Avoid direct contact with skin. Wear suitable tested to EN 374 during the activities where skin contact is possible.
 - Do not eat, drink, smoke while working.

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- **Organisational protective measures**

Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are insufficient to keep the solvent vapour concentration below the workplace limit, wear an adequate respiratory protective device.

- **Personal protective measures**

Do not inhale gases / fumes / aerosols.

Use suitable respiratory protective device in case of insufficient ventilation:

Wear approved protective gloves (EN 374) ; if contamination of hands is likely, wash skin contamination immediately.

- **Measures for consumer protection**

Ensure adequate labelling.

Protective gloves

Tightly sealed goggles.

Keep locked up and out of the reach of children.

- **Environmental protection measures**

- **Water**

Do not allow to reach sewage system.

SU3 :

If discharging to domestic sewage treatment plant, no sewage treatment is necessary.

On-site wastewater treatment (before release into the water) to achieve the required level of cleaning : 96 %

- **Soil** Prevent contamination of soil.

- **Notes** In case of unintended release of the product: See section 6 of the Safety Data Sheet.

- **Disposal measures** Disposal must be made according to official regulations.

- **Disposal procedures** Product residues are incinerated as special waste.

- **Guidance for downstream users**

For the risk assessment, the tools recommended by ECHA can be used.