## Safety Data Sheet dated 22/11/2016, version 3

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

1.1. Product identifier
Trade name: POLYPRIMER HP 45 PROFESSIONAL

1.2. Relevant identified uses of the substance or mixture and uses advised against
One -component bituminous coating

1.3. Details of the supplier of the safety data sheet:
Supplier:
POLYGLASS S.p.A.
Registered office: Viale Jenner, 4 - 20159 Milano
Headquarter: Via dell'Artigianato, 34- 31047 Ponte di Piave (TV) Competent person responsible for the safety data sheet: info@polyglass.it
Australian Supplier: Krystol Group Pty Ltd
Address: Unit 7, 60 Box Rd, Taren Point NSW 2229 Australia
Tel: +61 2 9524 6688

1.4. Emergency telephone number
POLYGLASS S.p.A. Tel: +39-0422-7547
Fax: +39-0422-854118 (office hours)
Poison Centre - Ospedale di Niguarda - Milan - Tel. +39/02/66101029
Emergency Contact: Australia - Poisons Information Centre 13 11 26

## SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
EC regulation criteria 1272/2008 (CLP)

- Danger, Flam. Liq. 2, Highly flammable liquid and vapour.
- Warning, Skin Irrit. 2, Causes skin irritation.
- Warning, Repr. 2, Suspected of damaging the unborn child.
- Warning, STOT SE 3, May cause drowsiness or dizziness.
- Warning, STOT RE 2, May cause damage to organs through prolonged or repeatedexposure.
- Danger, Asp. Tox. 1, May be fatal if swallowed and enters airways. Aquatic Chronic 2, Toxic to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:
No other hazards

2.2. Label elements

Hazard pictograms:

Danger

Hazard Statements:

H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H361d Suspected of damaging the unborn child.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.
H304 May be fatal if swallowed and enters airways.
H411 Toxic to aquatic life with long lasting effects.

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.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
P501 Dispose of contents/container to ...

Special Provisions:

None

Contents:

toluene;
heptane; n-heptane
ethyl acetate

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards vPvB Substances: None - PBT

Substances: None Other Hazards:

No other hazards

## SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

>= 50% - < 75% toluene

REACH No.: 01-2119471310-51-XXXX, Index number: 601-021-00-3, CAS: 108-88-3, EC: 203-625-9

- 2.6/2 Flam. Liq. 2 H225
- 3.7/2 Repr. 2 H361
- 3.10/1 Asp. Tox. 1 H304
- 3.9/2 STOT RE 2 H373
- 3.2/2 Skin Irrit. 2 H315
- 3.8/3 STOT SE 3 H336

>= 10% - < 20% heptane; n-heptane

REACH No.: 01-2119475515-33-xxxx, Index number: 601-008-00-2, CAS: 142-82-5, EC: 205-563-8

- 2.6/2 Flam. Liq. 2 H225
- 3.10/1 Asp. Tox. 1 H304
- 3.2/2 Skin Irrit. 2 H315

3.8/3 STOT SE 3 H336
4.1/A1 Aquatic Acute 1 H400
4.1/C1 Aquatic Chronic 1 H410

>= 1% - < 2.5% ethyl acetate
REACH No.: 01-2119475103-46-xxxx, Index number: 607-022-00-5, CAS: 141-78-6, EC: 205-500-4
2.6/2 Flam. Liq. 2 H225
3.3/2 Eye Irrit. 2 H319
3.8/3 STOT SE 3 H336EUH066

## SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.
Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.
Wash thoroughly the body (shower or bath).
Remove contaminated clothing immediately and dispose off safely.
After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.
Protect uninjured eye.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Wash immediately with water for at least 10 minutes.

In case of Ingestion:

Do NOT induce vomiting.
A suspension of activated charcoal in water, or petrolium jelly may be administered.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

4.2. Most important symptoms and effects, both acute and delayed The
product easily catches fire if it is exposed to an ignition source.
If brought into contact with the skin, the product causes appreciable inflammation, with erythema, scabs, and oedema.
This product is harmful: serious harm (functional disorders or significant morphological changes that are toxicology-related) may be caused by repeated or prolonged exposure to the product by inhalation.
This product is harmful - it is suspected that it can be injurious to the foetus.
The product is harmful: may cause lung damage if swallowed.

4.3. Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
Treatment:
(see paragraph 4.1)

## SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:
In case of fire, use CO2, chemical powders or foam.

Water.
CO2 or Dry chemical fire extinguisher.
Extinguishing media which must not be used for safety reasons:
None in particular.

5.2. Special hazards arising from the substance or mixture
Do not inhale explosion and combustion gases.
Burning produces heavy smoke.
The original ingredients or unidentified toxic and/or irritant compounds may be present in the combustion fumes.

5.3. Advice for firefighters
Use suitable breathing apparatus .
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Move undamaged containers from immediate hazard area if it can be done safely.

## SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Wear personal protection equipment.
Remove all sources of ignition.
Remove persons to safety.
See protective measures under point 7 and 8.

6.2. Environmental precautions
Limit leakages with earth or sand.
Eliminate all unguarded flames and possible sources of ignition. Do not smoke.
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
Retain contaminated washing water and dispose it.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
Suitable material for taking up: absorbing material, organic,
sand 6.3. Methods and material for containment and cleaning up
Rapidly recover the product, wearing protective clothing.
After the product has been recovered, rinse the area and materials involved with
water. Suitable material for taking up: absorbing material, organic, sand Wash with plenty of water.
Retain contaminated washing water and dispose it.

6.4. Reference to other sections
See also section 8 and 13

## SECTION 7: Handling and storage

7.1. Precautions for safe handling
Avoid contact with skin and eyes, inhalation of vapours and mists.
Don't use empty container before they have been cleaned.
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
Contamined clothing should be changed before entering eating areas.
Do not eat or drink while working.
Do not smoke while working.
See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities
Store at below 20 °C. Keep away from unguarded flam e and heat sources. Avoid direct exposure to sunlight.
Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.
Keep away from food, drink and feed.
Incompatible materials:

None in particular.
Instructions as regards storage premises: Cool and adequately ventilated.

7.3. Specific end use(s)
None in particular

## SECTION 8: Exposure controls/personal protection

8.1. Control parameters

toluene - CAS: 108-88-3
SUVA - LTE mg/m3: 190 mg/m3, 50 ppm - STE mg/m3: 760 mg/m3, 200 ppm
NDS - LTE mg/m3: 100 mg/m3
NDSCh - LTE mg/m3: 200 mg/m3
EU - LTE mg/m3(8h): 192 mg/m3, 50 ppm - STE mg/m3: 384 mg/m3, 100 ppm - Notes: Bold-type: Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)
ACGIH - LTE mg/m3(8h): 20 ppm - Notes: A4, BEI - Visual impair, female repro, pregnancy loss

heptane; n-heptane - CAS: 142-82-5
NDS - LTE mg/m3: 1200 mg/m3
NDSCh - LTE mg/m3: 2000 mg/m3
EU - LTE mg/m3(8h): 2085 mg/m3, 500 ppm - Notes: Bold-type: Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)
ACGIH - LTE mg/m3(8h): 400 ppm - STE mg/m3: 500 ppm - Notes: CNS impair, URT irr

ethyl acetate - CAS: 141-78-6
SUVA - LTE mg/m3: 1400 mg/m3, 400 ppm - STE mg/m3: 2800 mg/m3, 800 ppm
NDS - LTE mg/m3: 200 mg/m3
NDSCh - LTE mg/m3: 600 mg/m3
ACGIH - LTE mg/m3(8h): 400 ppm - Notes: URT and eye irr

DNEL Exposure Limit Values

toluene - CAS: 108-88-3
Worker Industry: 384 mg/m3 - Consumer: 226 mg/kg - Exposure: Human Dermal Frequency: Long Term, systemic effects
Worker Industry: 192 mg/m3 - Consumer: 56.5 mg/m3 - Exposure: Human Inhalation Frequency: Long Term, systemic effects
Consumer: 8.13 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
Consumer: 226 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

ethyl acetate - CAS: 141-78-6
Worker Professional: 1468 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects - Notes: DNEL
Consumer: 4.5 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects - Notes: DNEL
Consumer: 367 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, local effects - Notes: DNEL
Worker Professional: 1468 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, local effects - Notes: DNEL
Worker Professional: 63 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects - Notes: DNEL
Worker Professional: 734 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects - Notes: DNEL
Worker Professional: 734 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, local effects - Notes: DNEL

Consumer: 734 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects - Notes: DNEL
Consumer: 734 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, local effects - Notes: DNEL
Consumer: 37 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects - Notes: DNEL
Consumer: 367 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects - Notes: DNEL

PNEC Exposure Limit Values

toluene - CAS: 108-88-3

Target: Freshwater sediments - Value: 16.39 mg/kg - Notes:: PNEC
Target: Soil (agricultural) - Value: 2.31 mg/kg - Notes:: PNEC
Target: Marine water sediments - Value: 16.39 mg/kg - Notes:: PNEC
Target: Fresh Water - Value: 0.68 mg/l - Notes:: PNEC
Target: Marine water - Value: 0.68 mg/l - Notes:: PNEC
Target: MAP2 - Value: 0.68 mg/l - Notes:: PNEC
Target: Microorganisms in sewage treatments - Value: 6.58 mg/l

ethyl acetate - CAS: 141-78-6

Target: Fresh Water - Value: 0.26 mg/l - Notes:: PNEC
Target: Marine water - Value: 0.026 mg/l - Notes:: PNEC
Target: MAP2 - Value: 1.65 mg/l - Notes:: PNEC
Target: Freshwater sediments - Value: 1.25 mg/kg - Notes:: PNEC
Target: Marine water sediments - Value: 0.125 mg/kg - Notes:: PNEC
Target: Soil (agricultural) - Value: 0.24 mg/kg - Notes:: PNEC
Target: MAP1 - Value: 200 mg/kg - Notes::

PNEC 8.2. Exposure controls Eye protection:

Safety goggles.
Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.
Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Use adequate protective respiratory equipment.
In case of insufficient ventilation use mask with A filters (EN 14387).).

Personal Protective Equipment should comply with relevant CE standards (as EN 374 for gloves and EN 166 for goggles), correctly maintained and stored. Consult the supplier to check the suitability of equipment against specific chemicals and for user information.

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

## SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|---|
| Appearance: | liquid |
| Colour: | black |

Odour: typical
Odour threshold: N.A. pH:
N.A.
Melting point / freezing point: >200 °C
Initial boiling point and boiling range:
N.A.
Solid/gas flammability: N.A.
Upper/lower flammability or explosive limits: N.A.
Vapour density: N.A.
Flash point: 9 °C
Evaporation rate: N.A. Vapour pressure:
N.A.
Relative density: 0,9±0,03 g/cm³ (23°C) Vapour
density (air=1): N.A. Solubility in water: insoluble
Solubility in oil: N.A. Viscosity: N.A. Auto-ignition
temperature: N.A. Explosion limits(by volume):
N.A. Decomposition temperature: N.A.
Partition coefficient (n-octanol/water): N.A.
Explosive properties: N.A.
Oxidizing properties: N.A.

9.2. Other information

Miscibility: N.A. Fat Solubility:
N.A. Conductivity: N.A.
Substance Groups relevant properties N.A.

## SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

None

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

10.6. Hazardous decomposition products

None.

## SECTION 11: Toxicological information

11.1. Information on toxicological effects Route(s)
of entry:
Ingestion: Yes
Inhalation: Yes
Contact: No
There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.
Toxicological information on main components of the mixture:

Toxicological information of the mixture:
N.A.

Toxicological information of the main substances found in the mixture:

toluene - CAS: 108-88-3
a) acute toxicity:
Test: LC50 - Route: Inhalation - Species: Mouse = 5320 Ppm
Test: LD50 - Route: Oral - Species: Rat = 5580 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit = 12124 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat 28.1 mg/l - Duration:
4h ethyl acetate - CAS: 141-78-6 a) acute toxicity:
Test: LC50 - Route: Inhalation - Species: Rat = 1600 mg/l
Test: LD50 - Route: Oral - Species: Rabbit = 4935 mg/kg
Test: LD50 - Route: Oral - Species: Rat = 11.3 g/kg
Test: LD50 - Route: Skin - Species: Rabbit > 20000 mg/kg
Test: LD50 - Route: Oral - Species: Mouse = 4100 mg/kg

Corrosive/Irritating Properties:
Skin:
The product can cause irritation by contact.
Eye:
The product can cause a temporary irritation by contact.

Cancerogenic Effects:
No effects are known.

Mutagenic Effects:
No effects are known.

Teratogenic Effects:
No effects are known.

Possible risk of harm to the unborn child
Toxic for reproduction category 3
If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.:
a) acute toxicity
b) skin corrosion/irritation
c) serious eye damage/irritation
d) respiratory or skin sensitisation
e) germ cell mutagenicity
f) carcinogenicity
g) reproductive toxicity
h) STOT-single exposure
i) STOT-repeated exposure
j) aspiration hazard

## SECTION 12: Ecological information

12.1. Toxicity
Adopt good industrial practices, so that the product is not released into the environment.
Not available data on the mixture
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
toluene - CAS: 108-88-3
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Daphnia = 3.78 mg/l - Duration h: 48
Endpoint: EC50 - Species: Fish = 57.68 mg/l - Duration h: 96
Endpoint: EC50 - Species: Algae = 134 mg/l - Duration h: 3
Endpoint: LC50 - Species: Fish = 5.5 mg/l - Duration h:
96 heptane; n-heptane - CAS: 142-82-5 a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 375 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia = 82.5 mg/l - Duration h: 48

Endpoint: LC50 - Species: Algae = 1.5 mg/l - Duration h:
72 ethyl acetate - CAS: 141-78-6 a) Aquatic acute toxicity:
Endpoint: EC50 - Species: Daphnia = 260 mg/l - Duration h: 48
Endpoint: LC50 - Species: Algae = 3300 mg/l - Duration h: 48
Endpoint: LC50 - Species: Fish = 230 mg/l - Duration h: 96
b) Aquatic chronic toxicity:
Endpoint: LC50 - Species: Algae = 5600 mg/l - Duration h: 48

12.2. Persistence and degradability
N.A.

12.3. Bioaccumulative potential
N.A.

12.4. Mobility in soil
N.A.

12.5. Results of PBT and vPvB assessment vPvB
Substances: None - PBT Substances: None

12.6. Other adverse effects
None
Not available data on the mixture

## SECTION 13: Disposal considerations

13.1. Waste treatment methods
Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.
91/156/EEC, 91/689/EEC, 94/62/EC and subsequent amendments.

## SECTION 14: Transport information

14.1. UN number
UN Number: 1263

14.2. UN proper shipping name
ADR-Shipping Name: UN 1263, PAINT RELATED MATERIAL

14.3. Transport hazard class(es)
Rail/Road(RID/ADR): 3,II
ADR-Upper number: N/A
Air (ICAO/IATA): 3,II
Sea (IMO/IMDG): 3,II

14.4. Packing group

14.5. Environmental hazards
Marine pollutant: Yes

14.6. Special precautions for user
ADR-Tunnel Restriction Code: D/E
EMS no: F-E, S-E

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
No

## SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) 2015/830
Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

Restriction 3
Restriction 40

Restrictions related to the substances contained:

Restriction 48

Legislative Decree no. 81 of the 9th of April 2008 Title XI "Dangerous substances - Chapter I - Protection against chemical agents"
Directive 2000/39/CE and s.m.i. (Professional threshold limit)
Legislative Decree no. 152 of the 3rd of April 2006 and subsequent modifications and additions. (Environmental regulations)
Directive 105/2003/CE (Seveso III): N.A.
ADR Agreement – IMDG Code – IATA Regulation
VOC (2004/42/EC) : 450 g/l

Provisions related to directive EU 2012/18 (Seveso III):

N.A.

15.2. Chemical safety assessment

No

## SECTION 16: Other information

Text of phrases referred to under heading 3:

H225 Highly flammable liquid and vapour.
H361 Suspected of damaging fertility or the unborn child.
H304 May be fatal if swallowed and enters airways.
H373 May cause damage to organs through prolonged or repeated exposure.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H319 Causes serious eye irritation.
EUH066 Repeated exposure may cause skin dryness or cracking.

Paragraphs modified from the previous revision:

SECTION 16: Other information

This document was prepared by a competent person who has received appropriate training.
Main bibliographic sources:

NIOSH - Registry of toxic effects of chemical substances
ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.
It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.
This MSDS cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

| | |
|---|---|
| CAS: | Chemical Abstracts Service (division of the American Chemical Society). |
| CLP: | Classification, Labeling, Packaging. |
| DNEL: | Derived No Effect Level. |
| EINECS: | European Inventory of Existing Commercial Chemical Substances. |
| GefStoffVO: | Ordinance on Hazardous Substances, Germany. |
| GHS: | Globally Harmonized System of Classification and Labeling of Chemicals. |
| IATA: | International Air Transport Association. |
| IATA-DGR: | Dangerous Goods Regulation by the “International Air Transport Association” (IATA). |
| ICAO: | International Civil Aviation Organization. |
| ICAO-TI: | Technical Instructions by the “International Civil Aviation Organization” (ICAO). |
| IMDG: | International Maritime Code for Dangerous Goods. |
| INCI: | International Nomenclature of Cosmetic Ingredients. |
| KSt: | Explosion coefficient. |
| LC50: | Lethal concentration, for 50 percent of test population. |
| LD50: | Lethal dose, for 50 percent of test population. |
| LTE: | Long-term exposure. |
| PNEC: | Predicted No Effect Concentration. |
| RID: | Regulation Concerning the International Transport of Dangerous Goods by Rail. |
| STE: | Short-term exposure. |
| STEL: | Short Term Exposure limit. |
| STOT: | Specific Target Organ Toxicity. |
| TLV: | Threshold Limiting Value. |
| TWATLV: | Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard). |
| OEL: | Substance with a Union workplace exposure limit. |
| VLE: | Threshold Limiting Value. |
| WGK: | German Water Hazard Class. |
| TSCA: | United States Toxic Substances Control Act Inventory |
| DSL: | DSL - Canadian Domestic Substances List |
| N/A | Not Available |