

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

- 1.1 **Product name:** **POTMIX ASPHALT PRIMER (spray)**
- 1.2 **Relevant identified uses Of the substance or mixture:** Bitumen adhesive for road repairs.
- 1.3 **Supplier:** Potmix Products AB  
Box 14003  
630 14 Eskilstuna  
Sweden
- Telephone no.:** +46 10 101 80 33  
**Telefax no.:** +46 16 132 967  
**E-mail:** info@potmix.com
- 1.4 **Emergency telephone no.:** +44 7971 217 347 (UK) or your local emergency services number.

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance:

#### Classification:

Physical hazard	Aerosol 2 - H223, H229
Health hazard	Not classified
Environmental hazard	Not classified

#### Classification (67/548/EEG) or (1999/45/EG)

R10

#### Human health

Prolonged or repeated skin contact may cause irritation, redness and dermatitis. In high concentrations, vapours and aerosols appear dulling and can cause headache, fatigue, dizziness and nausea.

#### Physical-chemical

Pressurised container may explode in case of fire. The product is flammable.

### 2.2 Label elements:

According to 1272/2008:



#### Pictogram:

#### Signal phrase:

#### Risk phrases:

Warning  
H223 Flammable aerosol  
H280 Contains gas under pressure; may explode if heated.

#### Safety phrases:

P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Pressurized container: Do not pierce or burn, even after use.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.  
P102 Keep out of reach of children.

# SAFETY DATA SHEET



According to 1999/45/EG: See section 16.

**2.3 Other hazards:** The product does not contain any substance that is classified as PBT or vPvB.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Note that the table shows the known hazards of the ingredients in pure form. The dangers are reduced or eliminated when mixed or diluted, see section 16d.

<b>Asphalt</b> CAS-no.: 8052-42-4      EC-no.: 232-490-9 REACH-registration no.: 01-2119480172-44-0000	<b>50-70%</b>
<b>Classification</b> Not classified	
<b>Dimethyl ether</b> CAS-no.: 115-10-6      EC-no.: 204-065-8 REACH-registration no.: 01-2119472128-37	<b>15-24,9%</b>
<b>Classification</b> Flam. Gas 1 - H220 Press. Gas (Comp.) – H280	
<b>Hydrotreated heavy naphtha (petroleum)</b> CAS-no.: 64742-48-9      EC-no.: 265-150-3 REACH-registration no.: 01-2119463258-33-0000	<b>2,5-4,99%</b>
<b>Classification</b> Flam. Liq. 3 - H226 STOT SE 3 – H336 Asp. Tox. 1 – H304	
<b>Calcium chloride</b> CAS-no.: 10043-52-4      EG-no.: 265-150-3	<b>0,1-0,99%</b>
<b>Classification</b> Eye Irrit. 2 – H319	
<b>Hydrochloric acid</b> CAS-no.: 7647-01-0      EC-no.: 231-595-7 REACH-registration no.: 01-2119484862-27-0000	<b>0,1-0,99%</b>
<b>Classification</b> Skin Corr. 1B – H314 Eye Dam. 1 – H318 STOT SE 3 – H335	
<b>Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, ether with 2,2'-[[3-[(2-hydroxyethyl)-9-octadecenylamino]propyl]imino]bis[ethanol] (3:1), (Z)-</b> CAS-no.: 68123-27-3      EC-no.: 614-282-3 M-factor (acute) = 1	<b>0,1-0,99%</b>
<b>Classification</b> Acute Tox. 4 – H302 Skin Corr. 1B – H314 Eye Dam. 1 – H318 Aquatic Acute 1 – H400	
<b>1,3-Propanediamine, N-9-octadecenyl-, (Z)-</b>	<b>0,1-0,99%</b>

# SAFETY DATA SHEET



CAS-no.: 7173-62-8      EC-no.: 230-528-9  
REACH-registration no.: 01-2119487002-46-0000  
M-factor (acute) = 10      M-factor (chronic) = 1

## Classification

Acute Tox. 4 - H302  
Skin Corr. 1B - H314  
Eye Dam. 1 – H318  
STOT RE 1 - H372  
Aquatic Acute 1 – H400  
Aquatic Chronic 1 – H410

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General information

Get medical attention if trouble persists.

#### Inhalation

Move the injured person to fresh air and keep warm and quiet in a position that facilitates breathing.

#### Ingestion

Drink a few glasses of water or milk. Do not induce vomiting.

#### Skin contact

Wash skin thoroughly with soap and water.

#### Eye contact

Rinse with water. Get medical attention if trouble persists.

### 4.2. The main symptoms and effects, both acute and delayed

#### General information

Solvent abuse can lead to death.

#### Inhalation

Vapours may cause headache, fatigue, dizziness and nausea.

#### Ingestion

May cause nausea, headache, dizziness and poisoning.

#### Skin contact

Prolonged contact may cause redness, irritation and dry skin.

#### Eye contact

May cause temporary eye irritation.

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

Irrelevant.

## 5. FIREFIGHTING MEASURES

### 5.1 Extinguishing media

#### Suitable extinguishing agent

Extinguish with foam, carbon dioxide or powder.

### 5.2. Special hazards arising from the substance or mixture

The containers may burst or explode upon heating, due to quick pressure increase. Flammable.

## 5.3. Advice for firefighters

### Protective measures in case of fire

Container in the vicinity of fire should be moved or cooled with water.

### Special protective equipment for firefighters

Use chemical protection suit. Use breathing apparatus with air supply (SCBA) and suitable protective clothing.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

For personal protection, see Section 8.

### 6.2. Environmental precautions

Avoid spillage into sewers, sewer systems or watercourses.

### 6.3. Methods and material for containment and cleaning up

Large spill: roll in and absorb spill with sand, soil or other non-combustible material. Small spill: wipe clean with paper or textiles.

### 6.4. Reference to other sections

For waste disposal, see Section 13.

## 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Do not expose to heat, sparks and open flames. Protect from direct sunlight. Do not eat, drink or smoke during handling.

### 7.2. Conditions for safe storage, including any incompatibilities

Aerosol cans: Do not expose to direct sunlight or temperatures above 50°C. Keep the container dry.

### 7.3. Specific end use(s)

The identified use for the product is described in Section 1.2.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Occupational Exposure Limits

#### DIMETHYL ETHER

Level limit (8 hours, NGV): AFS 500 ppm 950 mg/m<sup>3</sup>

Short term value (15 minutes, KTV): AFS 800 ppm 1500 mg/m<sup>3</sup>

AFS = Arbetsmiljöverkets Författningssamling.

#### DIMETHYL ETHER (CAS: 115-10-6)

DNEL Commercial - Inhalation; Long-term systemic effects: 1894 mg/m<sup>3</sup>

PNEC Consumer - Inhalation; Long-term systemic effects: 471 mg/m<sup>3</sup>

- Freshwater; 0.155 mg/l

- Saltwater; 0.016 mg/l

- Sediment (freshwater); 0.681 mg/kg

- Sediment (sea water); 0.069 mg/kg

- Soil; 0.045 mg/kg

## 8.2 Exposure controls

### Protective gear



### Appropriate technical control measures

All handling should only be done in well-ventilated areas.

### Eye / face protection

Eye protection that meets an approved standard should be used if a risk assessment indicates that eye contact is possible.

### Hand Protection

Chemical resistant impervious protective gloves that complies with an approved standard should be used if a risk assessment shows that skin contact is possible.

### Other skin and body protection

Eyewash equipment and emergency shower should be available.

### Hygiene measures

Wash skin after each use and before meals, smoking and toilet visits.

### Breathing protection

No special recommendation indicated but protective filters may be required against organic vapours or dust.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

a) Appearance	Form:	Aerosol
	Color:	Black
b) Odor:		Characteristic
c) Odor threshold		Not applicable
d) pH		3-4
e) Melting/freezing point		Not applicable
f) Initial boiling point and boiling range		Not applicable
g) Flash point		Not available
h) Evaporation rate		Not applicable
i) Flammability (solid, gas)		Not applicable
j) Upper/lower flammability or explosive limit		Not applicable
k) Vapour pressure		Not applicable
l) Vapour density		Not applicable
m) Relative density		0.9 g/cm <sup>3</sup> [ @ 20°C ]
n) Solubility		
Solubility in water		Insoluble
o) Partition coefficient: n-octanol / water		Not applicable
p) Ignition temperature		Not available
q) Decomposition temperature		Not applicable
r) Viscosity		Not applicable
s) Explosive properties		Not applicable
t) Oxidizing Properties		Not applicable

# SAFETY DATA SHEET



## 9.2. Other information

None.

## 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

There are no known reactivity data associated with the product.

### 10.2. Chemical stability

The product is stable under normal storage and use conditions.

### 10.3. Possibility of hazardous reactions

Not available

### 10.4. Conditions to avoid

Keep away from heat, sparks and flames.

### 10.5. Incompatible materials

It is unlikely that any specific material or group of materials will react with the product so that a dangerous situation occurs.

### 10.6. Hazardous decomposition products

Not available

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Toxicological effects

No data available for the product as such.

#### General information

Prolonged and repeated contact with solvents over a long period of time can lead to permanent heart problems.

#### Inhalation

Vapours may have a narcotic effect. Symptoms of overexposure may include the following: headache, fatigue, dizziness, nausea, vomiting. May cause respiratory irritation.

#### Ingestion

May cause irritation. Symptoms of overexposure may include the following: stomach pain, nausea, vomiting, diarrhoea.

#### Skin

Prolonged contact may cause redness, irritation and dry skin.

#### Eye contact

May cause temporary eye irritation.

#### Acute and chronic health hazards

Prolonged or repeated exposure to vapours in high concentrations may cause the following adverse effects: nausea, vomiting, headache.

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

# SAFETY DATA SHEET



There is no data about the product as such.

## 12.2 Persistence and degradability

There are no data on the degradability of the product.

## 12.3 Bio-accumulative

No data available on bioaccumulation.

## 12.4 Mobility in soil

No data available.

## 12.5 Results of PBT and vPvB assessment

The product does not contain any substance that is classified as PBT or vPvB.

## 12.6 Other adverse effects

Not relevant.

## 13. DISPOSAL CONSIDERATION

### 13.1 Waste treatment methods

#### General information

The manufacturer of this product meets the requirements for producer responsibility according to the Environmental Code and its Product Liability Regulation (SFS 2006: 1273) by paying the packaging fee for the disposal and recycling of the packaging waste.

#### Disposal of the product

Plastic cover and valve button are recycled as hard plastic. Completely empty canisters are recycled as metal waste. Uncleaned aerosol canisters are classified as HAZARDOUS WASTE and must be disposed of in accordance with the Waste Ordinance (SFS 2011: 927). Contact local environmental management for local regulations.

## 14. TRANSPORT INFORMATION

This product is only expected to be transported by road, rail and sea, and is therefore only be assessed following regulations ADR/RID. Should other means of transportation be necessary, contact the publisher of this MSDS.

### 14.1 UN number

UN No. (ADR/RID)	1950
UN No. (IMDG)	1950
UN No. (ICAO)	1950
UN No. (ADN)	1950

### 14.2 UN proper shipping name

(ADR/RID)	AEROSOLS
(IMDG)	AEROSOLS
(ICAO)	AEROSOLS
(ADN)	AEROSOLS

### 14.3 Transport hazard class(es)

ADR/RID class	2.1
ADR/RID classification code	5F
ADR/RID label	2.1
IMDG class	2.1
ICAO class/risk group	2.1
ADN class	2.1

# SAFETY DATA SHEET



Transport label



#### 14.4 Packing group

not applicable

#### 14.5 Environmental hazards

not applicable

#### 14.6 Special precautions for user

EmS F-D, S-U

ADR transport category 2

Tunnel restriction code (D)

#### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

## 15. REGULATORY INFORMATION

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Not applicable.

#### 15.2 Chemical safety assessment

Assessment and CSR as 1907/2006 Annex I has not yet been performed.

## 16. ÖVRIG INFORMATION

#### 16a. Information on the changes that have been made to the previous version

##### Revisions of this document

This is version 161019/PPAB/MA\_2.

Replaces 130218/PPAB/MA\_1.

#### 16b. Explanation of abbreviations and acronyms

##### Key to abbreviations in section 14

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

RID Regulations concerning the International Carriage of Dangerous Goods by Rail

H220 Extremely flammable gas.

H223 Flammable aerosol.

H280 Contains gas under pressure; may explode if heated.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

#### 16c. Key literature references and sources for data

##### Data Sources



# SAFETY DATA SHEET



Primary data for the calculation of the dangers has primarily taken from the official European classification list, 1272/2008 Annex I, updated to 2014-09-16.

Where such data is unavailable, the alternatively used documentation forms the basis for the official classification, e.g. IUCRID (International Uniform Chemical Information Database). In third hand information from reputable international chemical company have been used. Lastly available information, e.g. from other suppliers' safety data sheets or from non-profit organizations, with an expert assessment made by the source's credibility have been used. If, despite this, reliable information is not found, dangers assessed by experts on the basis of known dangers from similar substances, in which the principles of 1907/2006 and 1272/2008 have been followed.

## Full text of the provisions mentioned in this MSDS

453/2010	COMMISSION REGULATION (EU) no. 453/2010 of 20 May 2010 amending European Parliament and Council Regulation (EC) no. 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).
1272/2008	EUROPEAN PARLIAMENT AND COUNCIL REGULATION (EC) no. 1272/2008 of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/1999/45 / EC, and amending Regulation (EC) no. 1907/2006.
1999/45/EC	THE EUROPEAN PARLIAMENT AND COUNCIL DIRECTIVE 1999/45/EC of 31 May 1999 on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous preparations.
AFS 2011:18	Work Environment Authority's regulations and general guidelines on exposure limits.
89/391	COUNCIL DIRECTIVE (89/391/EEC) of 12 June 1989 on measures to encourage improvements in the safety and health at work.
1907/2006	EUROPEAN PARLIAMENT AND COUNCIL REGULATION (EC) no. 1907/2006 of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) no. 793/93 and Commission Regulation (EC) no. 1488/94 and Council Directive 76/769/EEC and Commission Directive 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/ C Annex I.

## 16d. Methods for evaluating the information provided 1272/2008 Article 9 which was used for the classification

The calculation of the dangers of this mixture has been made that a joint assessment with the help of expert judgment in accordance with 1272/2008 Annex I, where all available information that may be important to determine the hazards of the mixture, and in accordance with 1907/2006 Appendix XI.

## 16e. Advise on appropriate training for employees in order to protect human health and the environment

### Warning of misuse

This product is not expected to cause serious harm to humans or the environment. The manufacturer, distributor or supplier cannot accept responsibility for unusual or criminal use of the product.

### Other relevant information

### Information on this document

Issue date: 2019-10-1