**PRODUCT NAME: MAXPIPE100 – WATER ACTIVATED PIPE REPAIR TAPE**

**MANUFACTURER: MAXKOTE LTD, 19 Kirkgate, LS25 6BH**

**TELEPHONE NUMBER: 01977 682 903**

**EMAIL: info@maxkote.co .uk**

**EMERGENCY TELEPHONE NUMBER: 01977 682 903**

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***Date of issue: 14th January 2018***

***Document Number 1037/101/version 3:***

**SECTION 1: Identification of Substance/ Preparation and Company**

* 1. **Product identifier**

**MAXPIPE100 – WATER ACTIVATED PIPE REPAIR TAPE**

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

Aliphatic polyamine hardener blend with inert fillers for repairing metalwork

**1.3 Details of the supplier of the safety data sheet**

MaxKote Ltd, 19, Kirkgate, LS25 6BH

**Tel: 01977 682 903**

**Email: info@maxkote.co.uk**

**1.4 Emergency telephone number**

**01977 682 903 (9am to 5pm)**

**SECTION 2: Hazards Identification**

**2.1 Classification of the substance or mixture**

**Dangerous  substances(67/548/EEC)/preparations(1999/45/EC)  directive**

**Indication  of  danger**

Harmful.

Carcinogenic  (Category  3).

Sensitising

**2.2 Label elements**

**Labelling in accordance with the Classification Labelling and Packaging Regulation EC (no) 1272/2008**

**Pictograms:**

****

**Signal Word: HARMFUL**

**Contains:** 4,4'-methylenediphenyl  diisocyanate

**Risk  phrases**

R36/37/38 Irritating  to  eyes,  respiratory  system  and  skin.

R42/43 May  cause  sensitisation  by  inhalation  and  skin  contact.

R48/20 Harmful:  danger  of  serious  damage  to  health  by  prolonged  exposure  through  inhalation.

R40 Limited  evidence  of  a  carcinogenic  effect.

**Safety  phrases**

S22 Do  not  breathe  dust.

S23A Do  not  breathe  vapour.

S36/37 Wear  suitable  protective  clothing  and  gloves.

S45 In  case  of  accident  or  if  you  feel  unwell,  seek  medical  advice  immediately  (show  the  label  where

possible).

**Special  provisions  concerning  the  labelling  of  certain  substances**

Contains  isocyanates.  See  information  supplied  by  manufacturer.

**2.3 Other hazards**

Persons  previously  sensitized  to  isocyanates  may  develop  a  cross-sensitization  reaction  to  other  isocyanates.

**SECTION 3: Composition/ Information on Ingredients**

**3.1 Substances**

Not applicable, product is a mixture.

**3.2 Mixtures**

Contains the following hazardous components above thresholds of concern:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ingredient** | **CAS  Nbr** | **EU  Inventory** | **%  by  Wt** | **Classification** |
| Fibre  glass | 65997-17-3 | EINECS  266-  046-0 | 50  -  60 |  |
| Non-hazardous  ingredients | None |  | 35  -  40 |  |
| 4,4'-methylenediphenyl  diisocyanate | 101-68-8 | EINECS  202-  966-0 | 5  -  15 | Carc.Cat.3:R40;  Xn:R20-48/20;  Xi:R36-37-38;  R42-43  -  Nota  2,C  (EU)  Acute  Tox.  4,  H332;  Skin  Irrit.  2,  H315;  Eye  Irrit.  2,  H319;  Resp.  Sens.  1,  H334;  Skin  Sens.  1,  H317;  Carc.  2,  H351;  STOT  SE  3,  H335;  STOT  RE  2,  H373  -  Nota  2,C  (CLP) |

See section 16 for full description of R phrases and H statements.

**SECTION 4: First Aid Measures**

**4.1.  Description  of  first  aid  measures**

**Eye  contact**

Immediately  flush  with  large  amounts  of  water.  Remove  contact  lenses  if  easy  to  do.  Continue  rinsing.  Get

Medical attention.

**Skin  contact**

Immediately  wash  with  soap  and  water.  Remove  contaminated  clothing  and  wash  before  reuse.  If  signs/symptoms   develop, get  medical  attention.

**Inhalation**

Remove  person  to  fresh  air.  If  you  feel  unwell,  get  medical  attention.

**If  swallowed**

Rinse  mouth.  If  you  feel  unwell,  get  medical  attention.

**4.2.  Most  important  symptoms  and  effects,  both  acute  and  delayed**

See  Section  11.1  Information  on  toxicological  effects

**4.3.  Indication  of  any  immediate  medical  attention  and  special  treatment  required**

Not  applicable

**SECTION 5: Fire Fighting Measures**

**5.1.  Extinguishing  media**

In  case  of  fire:  Use  a  fire  fighting  agent  suitable  for  flammable  liquids  or  gases  such  as  dry  chemical  or  carbon  dioxide.

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

None  inherent  in  this  product.

**5.3.  Advice  for  fire-fighters**

No  unusual  fire  or  explosion  hazards  are  anticipated.

**SECTION 6: Accidental Release Measures**

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

Evacuate  area.  Ventilate  the  area  with  fresh  air.  Refer  to  other  sections  of  this  SDS  for  information  regarding  physical  and

health  hazards,  respiratory  protection,  ventilation,  and  personal  protective  equipment.

**6.2.  Environmental  precautions**

Avoid  release  to  the  environment.

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

Collect  as  much  of  the  spilled  material  as  possible.  Place  in  a  container  approved  for  transportation  by  appropriate

authorities,  but  do  not  seal  the  container  for  48  hours  to  avoid  pressure  build-up.  Clean  up  residue  with  an  appropriate  solvent

selected  by  a  qualified  and  authorised  person.  Ventilate  the  area  with  fresh  air.  Read  and  follow  safety  precautions  on  the

solvent  label  and  Safety  Data  Sheet.  Dispose  of  collected  material  as  soon  as  possible.

**6.4.  Reference  to  other  sections**

Refer  to  Section  8  and  Section  13  for  more  information

**SECTION 7: Handling and Storage**

**7.1.  Precautions  for  safe  handling**

For  industrial  or  professional  use  only.  Do  not  use  in  a  confined  area  or  areas  with  little  or  no  air  movement.  Do  not   handle until  all  safety  precautions  have  been  read  and  understood.  Do  not  breathe  dust/fume/gas/mist/vapours/spray.  Do  not  get  in

eyes,  on  skin,  or  on  clothing.  Do  not  eat,  drink  or  smoke  when  using  this  product.  Wash  thoroughly  after  handling.

Contaminated  work  clothing  should  not  be  allowed  out  of  the  workplace.  Wash  contaminated  clothing  before  reuse.   Keep away  from  reactive  metals  (eg.  Aluminum,  zinc  etc.)  to  avoid  the  formation  of  hydrogen  gas  that  could  create  a explosion

hazard.  Use  personal  protective  equipment  (eg.  gloves,  respirators…)  as  required.

**7.2.  Conditions  for  safe  storage  including  any  incompatibilities**

Keep  container  tightly  closed  to  prevent  contamination  with  water  or  air.  If  contamination  is  suspected,  do  not  reseal

container.  Store  away  from  areas  where  product  may  come  into  contact  with  food  or  pharmaceuticals.  Store  away  from

strong  bases.

**7.3.  Specific  end  use(s)**

See  information  in  Section  7.1  and  7.2  for  handling  and  storage  recommendations.  See  Section  8  for  exposure  controls  and

personal  protection  recommendations.

**SECTION 8: Exposure Controls/ Personal Protection**

**8.1 Control parameters**

|  |  |  |
| --- | --- | --- |
| Substance Name | 8 hour exposure limit | Notes, Source |
| Free Isocyanates | TWA: 0.005; STEL:0.02 ppm | Respiratory sensitizer |
| Fibre Glass | TWA (as dust): 10mg/m³ |  |
| Glass filaments | TWA (as fiber): 5mg/m³ |  |

**8.2 Exposure controls**

**8.2.1.  Engineering  controls**

Use  general  dilution  ventilation  and/or  local  exhaust  ventilation  to  control  airborne  exposures  to  below  relevant  Exposure

Limits  and/or  control  dust/fume/gas/mist/vapours/spray.  If  ventilation  is  not  adequate,  use  respiratory  protection   equipment.

**8.2.2.  Personal  protective  equipment  (PPE)**

**Eye/face  protection**

Wear  eye/face  protection.

The  following  eye  protection(s)  are  recommended:  Indirect  vented  goggles.

**Skin/hand  protection**

Wear  protective  gloves  and  protective  clothing.

Gloves  made  from  the  following  material(s)  are  recommended:  Butyl  rubber.

Nitrile  rubber.

The  following  protective  clothing  material(s)  are  recommended:Apron  -  polymer  laminate

**Respiratory  protection**

In  case  of  inadequate  ventilation  wear  respiratory  protection.

**SECTION 9: Physical/ Chemical Properties**

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

**Physical  state** Solid.

**Specific  Physical  Form:** Bandage

**Appearance/Odour** Slightly  earthy  odour;  Off  white  colour

**pH** *Not  applicable.*

**Boiling  point/boiling  range** >=210  ºC  [*Details:*Resin  only]

**Melting  point** *No  data  available.*

**Flammability  (solid,  gas)** Not  classified

**Explosive  properties** Not  classified

**Oxidising  properties** Not  classified

**Flash  point** 200  ºC  [*Details:*Resin  only]

**Autoignition  temperature** *No  data  available.*

**Flammable  Limits(LEL)** *Not  applicable.*

**Flammable  Limits(UEL)** *Not  applicable.*

**Vapour  pressure** 0  Pa  [@  24  ºC  ]

**Relative  density** 1.210  [*Ref  Std:*WATER=1]

**Water  solubility** Slight  (less  than  10%)

**Partition  coefficient:  n-octanol/water** *Not  applicable.*

**Evaporation  rate** *Not  applicable.*

**Vapour  density** *No  data  available.*

**Viscosity** *No  data  available.*

**Density** 1.21  g/ml  [*Details:*Resin  only]

**9.2.  Other  information**

**Volatile  organic  compounds  (VOC)** 0  g/l  [*Test  Method:*Estimated]

**Percent  volatile** 0  %  weight

**SECTION 10: Stability And Reactivity**

**10.1  Reactivity**

This  material  may  be  reactive  with  certain  agents  under  certain  conditions  -  see  the  remaining  headings  in  this  section

**10.2  Chemical  stability**

Stable.

**10.3  Possibility  of  hazardous  reactions**

Hazardous  polymerisation  will  not  occur.

**10.4  Conditions  to  avoid**

None  known.

**10.5  Incompatible  materials**

Alcohols.

Reactive  metals

Strong  bases.

Water/ Moisture

**10.6  Hazardous  decomposition  products**

**Substance** **Condition**

Carbon  dioxide. Not  specified.

Carbon  monoxide. Not  specified.

Hydrogen  cyanide. Not  specified.

Oxides  of  nitrogen. Not  specified

**SECTION 11: Toxicological Information**

**The  information  below  may  not  be  consistent  with  the  material  classification  in  Section  2  if  specific**

**ingredient** **classifications  are  mandated  by  a  competent  authority.  In  addition,  toxicological  data  on  ingredients   may  not  be**

**reflected  in  the  material  classification  and/or  the  signs  and  symptoms  of  exposure,  because  an   ingredient  may  be**

**present  below  the  threshold  for  labelling,  an  ingredient  may  not  be  available  for  exposure,  or  the  data  may  not  be**

**relevant  to  the  material  as  a  whole.**

**11.1  Information  on  Toxicological  effect**

**Signs  and  Symptoms  of  Exposure**

**Based  on  test  data  and/or  information  on  the  components,  this  material  may  produce  the  following   health  effects:**

**Eye  contact**

Severe  eye  irritation:  Signs/symptoms  may  include  significant  redness,  swelling,  pain,  tearing,  cloudy  appearance  of  the

cornea,  and  impaired  vision.

**Skin  contact**

Allergic  skin  reaction  (non-photo  induced):  Signs/symptoms  may  include  redness,  swelling,  blistering,  and  itching.  Skin

Irritation:  Signs/symptoms  may  include  localized  redness,  swelling,  itching,  dryness,  cracking,  blistering,  and  pain.

**Inhalation**

Allergic  respiratory  reaction:  Signs/symptoms  may  include  difficulty  breathing,  wheezing,  cough,  and  tightness  of  chest.

Respiratory  tract  irritation:  Signs/symptoms  may  include  cough,  sneezing,  nasal  discharge,  headache,  hoarseness,  and  nose

and  throat  pain.  May  cause  target  organ  effects  after  inhalation.

**Ingestion**

Gastrointestinal  irritation:  Signs/symptoms  may  include  abdominal  pain,  stomach  upset,  nausea,  vomiting  and  diarrhoea.

May  be  harmful  if  swallowed. Physical  Blockage:  Signs/symptoms  may  include  cramping,  abdominal  pain,  and  constipation.

**Target  Organ  Effects:**

Prolonged  or  repeated  exposure  may  cause:

Respiratory  effects:  Signs/symptoms  may  include  cough,  shortness  of  breath,  chest  tightness,  wheezing,  increased

heart  rate,  bluish  coloured  skin  (cyanosis),  sputum  production,  changes  in  lung  function  tests,  and  respiratory  failure.

**Carcinogenicity:**

Contains  a  chemical  or  chemicals  which  can  cause  cancer.

**Additional  information:**

Persons  previously  sensitised  to  isocyanates  may  develop  a  cross-sensitisation  reaction  to  other  isocyanates.

**SECTION 12: Ecological Information**

This product has not been tested. Judgements on the expected toxicity of this product have been made based upon consideration of its major components.

**12.1 Toxicity**

This product contains components which are considered to be harmful to aquatic organisms and may cause long-term adverse effects in the aquatic environment. Once cured the toxicity of the product is expected to decrease.

**12.2 Persistence and degradability**

This product is not expected to be readily biodegradable.

**12.3 Bioaccumulative potential**

This product is expected to have a low bioaccumulation potential.

**12.4 Mobility in soil**

Cured product is expected to be immobile.

**12.5 Results of PBT and vPvB assessment**

None of the components are known to be PBT or vPvB.

**12.6 Other adverse effects**

None known.

**SECTION 13: Disposal Considerations**

**13.1 Waste treatment methods**

In uncured state, dispose as chemical waste in accordance with local regulations. Waste from this product may present long term environmental hazards. Thus landfill sites must be considered less acceptable than incineration.

In cured state when mixed correctly with the base component, dispose as solid waste

Empty containers should be disposed of as chemical waste.

**SECTION 14: Transport Information**

**General:**  Transport and labelling requirements will alter depending on the size of the packaging. Please refer to local transport regulations.

|  |  |  |  |
| --- | --- | --- | --- |
|  | ADR | IMDG | ICAO |
| 14.1 UN Number | Non Hazardous | Non Hazardous | Non Hazardous |
| 14.2 UN Proper shipping name |  |  |  |
| 14.3 Transport hazard class(es) |  |  |  |
| 14.4 Packing group |  |  |  |
| 14.5 Environmental hazards |  |  |  |
| 14.6 Special precautions for user |  |  |  |
| 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code |  |  |  |

**SECTION 15: Regulatory Information**

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

All components are listed as existing substances in Europe

**15.2 Chemical Safety Assessment**

A Chemical Safety Assessment has not been carried out for this product.

**SECTION 16: Other Information**

**Revision information:**

Reformatted in accordance with Regulation 453/2010 and Regulation 1272/2008.

**List of Abbreviations used in this SDS:**

CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging Regulation (EC) no 1272/2008

DSD Dangerous Substances Directive 67/548/EEC

DPD Dangerous Preparations Directive 1999/45/EC

EC European Community/Commission

PBT Persistent, Bioaccumulative and Toxic

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) no 1907/2006

vPvB very Persistent, very Bioaccumulative

**References:**

ECHA Classification and Labelling inventory

ECHA database of disseminated registration dossiers

Supplier’s Safety Data Sheets

**Method used for classification of mixtures:**

Ingredient based approaches

**R Phrases and H Statements used in Section 3**

R36 Irritating to eyes

R36/38 Irritating to eyes and skin,

R37 Irritating to respiratory system,

R41 Risk of serious damage to eyes,

R43 May cause sensitisation by skin contact

R48/20/21/22; Harmful: Danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.

**Training requirements for workers**

No special training requirements.