

# SAFETY DATA SHEET

accordance with Annex II of Regulation (EC) No 1907/2006 and  
its amendment(s)

**Product:** **Mixland+ TBP 75% GA**

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SDS No.: 100071-100 (Version 1.0 )

Date 14.08.2015

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

### 1.1. Identification of the product

Identification of the mixture: Mixland+ TBP 75% GA

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

Use of the Substance/Mixture : Curing chemical

### 1.3. Details of the supplier of the safety data sheet

Supplier

MLPC International  
209, Avenue Charles Despiau  
F-40370 RION-DES-LANDES  
FRANCE  
Tel. + 33 (0) 5 58 57 02 00  
<http://www.mlpc-intl.com>  
[fds@mlpc-intl.com](mailto:fds@mlpc-intl.com)

### 1.4. Emergency telephone number

+44 (0) 1235 239 670 (Carechem24 – MLPC 29003) **Europe**  
001866 928 0789 (Carechem24 – MLPC 29003) **Americas**  
+65 3158 1074 (Carechem24 – MLPC 29003) **Asia-pacific region** (excluding China)  
+86 400 6267911 **China mainland**

## 2. HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008):

Skin sensitisation, 1, H317

#### Additional information:

For the full text of the H, EUH-phrases mentioned in this Section, see Section 16.

### 2.2. Label elements

Label elements (REGULATION (EC) No 1272/2008):

Hazard pictograms:



Signal word:

**Warning**

Hazard statements:

H317 : May cause an allergic skin reaction.

Precautionary statements:

**Prevention:**

P261 : Avoid breathing dust/fume  
P280 : Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

P302 + P352 : IF ON SKIN: Wash with plenty of soap and water.  
P333 + P313 : If skin irritation or rash occurs: Get medical advice/ attention.

2.3. **Other hazards** : None.

**Other:**

Results of PBT and vPvB assessment : Based on the available information, it is not possible to conclude on PBT and vPvB criteria according to REACH regulation, annex XIII.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2. **Mixtures**

**Chemical nature of the mixture<sup>1</sup>:**

Mixture based on: Polymer and

**Hazardous components (accordance with Annex II of Regulation (EC) No 1907/2006 and its amendment(s)) :**

Chemical Name <sup>1</sup> & REACH Registration Number <sup>2</sup>	EC-No.	CAS-No.	Concentration	Classification REGULATION (EC) No 1272/2008
Phenol, 4-(1,1-dimethylethyl)-, polymer with sulfur chloride (S2Cl2)	–	60303-68-6	75 %	Skin Sens. 1; H317
Distillates (petroleum), hydrotreated light paraffinic (N° ANNEX: 649-468-00-3)	265-158-7	64742-55-8	12 %	AH 1; H304 Nota L: DMSO <3%

<sup>1</sup>: See chapter 14 for Proper Shipping Name

<sup>2</sup>: See the text of the regulation for applicable exceptions or provisions : The transition time according to REACH Regulation, Article 23, is still not expired.

For the full text of the H, EUH-phrases mentioned in this Section, see Section 16.

### 4. FIRST AID MEASURES

#### 4.1. **Description of necessary first-aid measures:**

**General advice:**

Take off immediately all contaminated clothing.

**Inhalation:**

Move to fresh air. Consult a physician.

**Skin contact:**

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

**Eye contact:**

Wash well-open eyes immediately, abundantly and thoroughly with water. Consult an ophthalmologist.

**Ingestion:**

Call a physician immediately. Do not induce vomiting without medical advice. Rinse mouth.

**Protection of first-aiders:**

If entering a saturated atmosphere, wear a self contained breathing apparatus.

4.2. **Most important symptoms/effects, acute and delayed:** No data available.

4.3. **Indication of immediate medical attention and special treatment needed, if necessary:** No data available.

### 5. FIREFIGHTING MEASURES

#### 5.1. **Extinguishing media**

**Suitable extinguishing media:** Water spray, Foam, Dry powder

**Unsuitable extinguishing media:** All other extinguishants

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

Thermal decomposition gives : Nitrogen oxides (NOx), Sulphur oxides, Carbon oxides

**5.3. Advice for firefighters:**

**Specific methods:**

Suppress gases, fumes and/or dust with water spray jet. Remove all sources of ignition.

**Special protective actions for fire-fighters:**

Wear self-contained breathing apparatus and protective suit.

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**6. ACCIDENTAL RELEASE MEASURES**

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

Avoid contact with skin and eyes and inhalation of dust.

**6.2. Environmental precautions:**

Do not let product enter drains. Do not contaminate surface water.

**6.3. Methods and materials for containment and cleaning up:**

**Recovery:**

Shovel or sweep up. Recover the product and place in a dry labelled container.

**Elimination:**

Dispose of as hazardous waste in compliance with local and national regulations.

**6.4. Reference to other sections: None.**

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**7. HANDLING AND STORAGE**

**7.1. Precautions for safe handling:**

**Technical measures/Precautions:**

Provide appropriate exhaust ventilation at machinery. Provide showers, eye-baths. In the presence of an ignition source: Dust may form explosive mixture in air.

**Safe handling advice:**

In case of dust formation, wear a dust mask. Avoid static electricity build up with connection to earth.

**Hygiene measures:**

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with the skin and the eyes. Wash hands after handling. Remove contaminated clothing and protective equipment before entering eating areas.

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

Store protected from moisture and heat. Protect from light. Keep away from direct sunlight.

**Incompatible products:**

Strong acids, Oxidizing agents

**Packaging material:**

**Recommended:** Cardboard lined with polyethylene liner, Paper bags lined with polyethylene

**7.3. Specific end use(s): None.**

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters:**

**Exposure Limit Values** Not relevant

**Derived No Effect Level (DNEL):** No data available.

**Predicted No Effect Concentration:** No data available.

**8.2. Exposure controls:**

**General protective measures:** Ensure sufficient air exchange and/or exhaust in work areas

**Personal protective equipment:**

Respiratory protection: Effective dust mask  
Hand protection: Impervious gloves

Eye/face protection: Tightly fitting safety goggles  
Skin and body protection: Protective suit

Environmental exposure controls: See chapter 6

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

**Appearance:**

<b>Physical state (20°C):</b>	solid
<b>Form:</b>	pellets
<b>Colour:</b>	yellow, green
<b>Odour:</b>	Characteristic and slight
<b>Olfactory threshold:</b>	No data available.
<b>pH:</b>	No data available.
<b>Melting point/range:</b>	No data available.
<b>Boiling point/boiling range:</b>	No data available.
<b>Flash point:</b>	> 200 °C
<b>Evaporation rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.
<b>Vapour pressure:</b>	No data available.
<b>Vapour density:</b>	No data available.
<b>Relative density:</b>	No data available.
<b>Bulk density:</b>	760 kg/m <sup>3</sup>
<b>Water solubility:</b>	insoluble
<b>Partition coefficient: n-octanol/water:</b>	PHENOL, 4-(1,1-DIMETHYLETHYL)-, POLYMER WITH SULFUR CHLORIDE (S <sub>2</sub> CL <sub>2</sub> ) : log Kow : > 6,2 , at 22 °C (OECD Test Guideline 117)
<b>Auto-ignition temperature:</b>	No data available.
<b>Decomposition temperature:</b>	No data available.
<b>Viscosity:</b>	No data available.
<b>Explosive properties:</b>	No data available.
<b>Oxidizing properties:</b>	No data available.

### 9.2. Other data:

**Solubility in other solvents:** Soluble in: , Alcohols , Acetone , Chloroform

## 10. STABILITY AND REACTIVITY

10.1. **Reactivity:** No data available.

10.2. **Chemical stability:**

The product is stable under normal handling and storage conditions.

10.3. **Possibility of hazardous reactions:** No data available.

10.4. **Conditions to avoid:**

Store protected from moisture and heat. Protect from light. Keep away from direct sunlight.

10.5. **Incompatible materials to avoid:**

Oxidizing agents  
Strong acids

10.6. **Hazardous decomposition products:**

Nitrogen oxides (NO<sub>x</sub>), Carbon dioxide (CO<sub>2</sub>), Sulphur oxides

## 11. TOXICOLOGICAL INFORMATION

All available and relevant data on this product and/or the components quoted in section 3 and/or the analogue substances/metabolites have been taken into account for the hazard assessment.

### 11.1. Information on toxicological effects:

**Acute toxicity:**

**Inhalation:** Based on the available information, it is not possible to conclude on the hazard potential of this mixture.

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :  
• In animals : No mortality/4 h/Rat: 5,53 mg/l (Method: OECD Test Guideline 403) (Aerosol)

**Ingestion:** Based on the available information, it is not possible to conclude on the hazard potential of this mixture.

PHENOL, 4-(1,1-DIMETHYLETHYL)-, POLYMER WITH SULFUR CHLORIDE (S<sub>2</sub>CL<sub>2</sub>) :  
• In animals : No mortality/Rat: 2.000 mg/kg (Method: OECD Test Guideline 401)

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :  
• In animals : No mortality/Rat: 5.000 mg/kg (Method: OECD Test Guideline 401)

**Dermal:** Based on the available information, it is not possible to conclude on the hazard potential of this mixture.

PHENOL, 4-(1,1-DIMETHYLETHYL)-, POLYMER WITH SULFUR CHLORIDE (S<sub>2</sub>CL<sub>2</sub>) :  
• In animals : No mortality/Rat: 2.000 mg/kg (Method: OECD Test Guideline 402)

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :  
• In animals : No mortality/Rabbit: 5.000 mg/kg (Method: OECD Test Guideline 402)

**Local effects ( Corrosion / Irritation / Serious eye damage ):**

**Skin contact:** Based on the available information, it is not possible to conclude on the hazard potential of this mixture.

PHENOL, 4-(1,1-DIMETHYLETHYL)-, POLYMER WITH SULFUR CHLORIDE (S<sub>2</sub>CL<sub>2</sub>) :  
• In animals : Mild skin irritation (OECD Test Guideline 404, Rabbit)

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :  
• In animals : Slightly irritating to skin. (Rabbit, Exposure time: 24 h)

**Eye contact:** Based on the available information, it is not possible to conclude on the hazard potential of this mixture.

PHENOL, 4-(1,1-DIMETHYLETHYL)-, POLYMER WITH SULFUR CHLORIDE (S<sub>2</sub>CL<sub>2</sub>) :  
• In animals : Mild eye irritation (OECD Test Guideline 405, Rabbit)

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :  
• In animals : No eye irritation (OECD Test Guideline 405, Rabbit)

**Respiratory or skin sensitisation:**

**Inhalation:** No data available.

**Skin contact:** According to its composition : May cause an allergic skin reaction.

PHENOL, 4-(1,1-DIMETHYLETHYL)-, POLYMER WITH SULFUR CHLORIDE (S<sub>2</sub>CL<sub>2</sub>) :  
• In animals : Strong sensitizing effects by skin contact. (Method : OECD Test Guideline 406 Guinea pig maximization test)

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :  
• In animals : Not a skin sensitizer (Method : OECD Test Guideline 406 Guinea pig maximization test)

**CMR effects :**

**Mutagenicity:** Based on the available information, it is not possible to conclude on the hazard potential of this mixture.

**In vitro**

PHENOL, 4-(1,1-DIMETHYLETHYL)-, POLYMER WITH SULFUR CHLORIDE (S<sub>2</sub>CL<sub>2</sub>) :  
Inactive in genotoxic in vitro tests  
Ames test in vitro: (Method: OECD Test Guideline 471)  
In vitro chromosomal abnormality test on human lymphocytes: (Method: OECD Test Guideline 473)

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :  
Ames test in vitro: Inactive (Method: OECD Test Guideline 471)  
In vitro test for chromosomal abnormalities on CHO cells: Inactive (Method: OECD Test Guideline 473)  
In vitro gene mutations test on mammalian cells: Inactive (Method: OECD Test Guideline 476)

**In vivo**

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :  
Micronucleus test in vivo mouse: Inactive (Method: OECD Test Guideline 474)

**Carcinogenicity:** **Based on the available information, it is not possible to conclude on the hazard potential of this mixture.**

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :  
• In animals : Absence of carcinogenic effects (Method: OECD Test Guideline 451, mice, Chronic, dermal route)

**Reproductive toxicity:**

**Fertility:** **Based on the available information, it is not possible to conclude on the hazard potential of this mixture.**

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :  
• In animals :  
Reproduction Test: No toxicity to reproduction  
NOAEL ( Parental toxicity ): 1.000 mg/kg bw/day  
NOAEL ( Fertility ): 1.000 mg/kg bw/day  
(Method: OECD Test Guideline 421, Rat, By oral route)

**Foetal development:** **Based on the available information, it is not possible to conclude on the hazard potential of this mixture.**

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :  
• In animals :  
Absence of toxic effects for foetal development.  
NOAEL ( Developmental Toxicity ): 2.000 mg/kg bw/day  
NOAEL ( Maternal Toxicity ): < 125 mg/kg bw/day  
(Method: OECD Test Guideline 414, Rat, dermal route)

**Specific target organ toxicity :**

**Single exposure :** No data available.

**Repeated exposure:** **Based on the available information, it is not possible to conclude on the hazard potential of this mixture.**

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :  
• In animals :  
By inhalation: No effect is reported.  
NOAEL= > 1 mg/l (Rat, 4 Weeks) (Aerosol)  
dermal route: No effect is reported.  
NOAEL= > 2.000 mg/kg (Method: OECD Test Guideline 411, Rat, 3 months)  
By oral route: (Results obtained on a similar product).  
Target organs: Reproductive organs, Stomach, Liver, Thymus, NOAEL= < 125 mg/kg (Method: OECD Test Guideline 408, Rat, 3 months)

**Aspiration hazard:** Not applicable

**12. ECOLOGICAL INFORMATION**

Ecotoxicology Assessment: All available and relevant data on this product and/or the components quoted in section 3 and/or the analogue substances/metabolites have been taken into account for the hazard assessment.

**12.1. Toxicity :**

**Fish:** **Based on the available information, it is not possible to conclude on the hazard potential of this mixture.**

PHENOL, 4-(1,1-DIMETHYLETHYL)-, POLYMER WITH SULFUR CHLORIDE (S<sub>2</sub>CL<sub>2</sub>) :  
LL50, 96 h (Danio rerio (zebra fish)) : > 1.000 mg/l (Method: OECD Test Guideline 203) No effect up to the limit of solubility

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :  
LL50, 96 h (Pimephales promelas (fathead minnow)) : > 100 mg/l (Method: OECD Test Guideline 203)

**Aquatic invertebrates:** Based on the available information, it is not possible to conclude on the hazard potential of this mixture.

PHENOL, 4-(1,1-DIMETHYLETHYL)-, POLYMER WITH SULFUR CHLORIDE (S<sub>2</sub>CL<sub>2</sub>) :  
LL50, 48 h (Daphnia magna (Water flea)) : > 995,8 mg/l (Method: OECD Test Guideline 202) No effect up to the limit of solubility

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :  
LL50, 48 h (Daphnia magna (Water flea)) : > 10.000 mg/l (Method: OECD Test Guideline 202, pH: 7,7, Immobilization)

**Aquatic plants:** Based on the available information, it is not possible to conclude on the hazard potential of this product.

PHENOL, 4-(1,1-DIMETHYLETHYL)-, POLYMER WITH SULFUR CHLORIDE (S<sub>2</sub>CL<sub>2</sub>) :  
LL50, 72 h (Raphidocelis subcapitata) : > 998 mg/l (Method: OECD Test Guideline 201, growth rate inhibition) No effect up to the limit of solubility

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :  
LL50, 72 h (Pseudokirchneriella subcapitata (microalgae)) : > 100 mg/l (Method: OECD Test Guideline 201, growth rate inhibition)

**Microorganisms:**

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :  
NOEC, 4 d (Photobacterium phosphoreum) : > 1,93 mg/l (Method: DIN 38412)

**Aquatic toxicity / Long term toxicity:**

**Aquatic invertebrates:**

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :  
NOEC, 21 d (Daphnia magna (Water flea)) : 10 mg/l (Method: OECD Test Guideline 211, Growth inhibition/Reproduction inhibition)

**Aquatic plants:**

PHENOL, 4-(1,1-DIMETHYLETHYL)-, POLYMER WITH SULFUR CHLORIDE (S<sub>2</sub>CL<sub>2</sub>) :  
ErL10, 72 h (Raphidocelis subcapitata) : > 998 mg/l (Method: OECD Test Guideline 201, growth rate inhibition)

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :  
NOEC r, 72 h (Pseudokirchneriella subcapitata) : 100 mg/l (Method: OECD Test Guideline 201, growth rate inhibition)

**12.2. Persistence and degradability :**

**Stability in water:**

PHENOL, 4-(1,1-DIMETHYLETHYL)-, POLYMER WITH SULFUR CHLORIDE (S<sub>2</sub>CL<sub>2</sub>) :  
Not hydrolysable  
(at 25 °C)

**Biodegradation (In water):** Based on the available information, it is not possible to conclude on biodegradability of this mixture.

PHENOL, 4-(1,1-DIMETHYLETHYL)-, POLYMER WITH SULFUR CHLORIDE (S<sub>2</sub>CL<sub>2</sub>) :  
Not readily biodegradable.

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :  
Not readily biodegradable.  
Not readily biodegradable.: 4 % after 28 d (Method: OECD Test Guideline 301 B)

**12.3. Bioaccumulative potential :**

**Bioaccumulation:** Based on the available information, it is not possible to conclude on the bioaccumulation potential of this mixture.

PHENOL, 4-(1,1-DIMETHYLETHYL)-, POLYMER WITH SULFUR CHLORIDE (S<sub>2</sub>CL<sub>2</sub>) :  
Partition coefficient: n-octanol/water: log K<sub>ow</sub> : > 6,2 , at 22 °C (Method: OECD Test Guideline 117)

**12.4. Mobility in soil - Distribution among environmental compartments:** No data available.

**12.5. Results of PBT and vPvB assessment :**

Based on the available information, it is not possible to conclude on PBT and vPvB criteria according to REACH regulation, annex XIII.

12.6. Other adverse effects: None known.

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### 13. DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment:

- Disposal of product:** Destroy the product by incineration (in accordance with local and national regulations).
- Disposal of packaging:** Destroy packaging by incineration at an approved waste disposal site (in accordance with local and national regulations).

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### 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

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### 15. REGULATORY INFORMATION

Safety data sheets: accordance with Annex II of Regulation (EC) No 1907/2006 and its amendment(s)

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

15.2. Chemical Safety Assessment: None.

#### INVENTORIES:

- DSL: Conforms to  
TSCA: Conforms to  
ENCS (JP): Conforms to

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### 16. OTHER INFORMATION

#### Full text of H, EUH-phrases referred to under sections 2 and 3

- H304 May be fatal if swallowed and enters airways.  
H317 May cause an allergic skin reaction.

#### Thesaurus:

NOAEL : No Observed Adverse Effect Level (NOAEL)  
LOAEL : Lowest Observed Adverse Effect Level (LOAEL)  
bw : Body weight  
food : oral feed  
dw : Dry weight  
vPvB : very Persistent and very Bioaccumulative  
PBT : Persistent, Bioaccumulative and Toxic

This information applies to the PRODUCT AS SUCH and conforming to specifications of ARKEMA. In case of formulations or mixtures, it is necessary to ascertain that a new danger will not appear. The information contained is based on our knowledge of the product, at the date of publishing and it is given quite sincerely. Users are advised of possible additional hazards when the product is used in applications for which it was not intended. This sheet shall only be used and reproduced for prevention and security purposes. The references to legislative, regulatory and codes of practice documents cannot be considered as exhaustive. It is the responsibility of the person receiving the product to refer to the totality of the official documents concerning the use, the possession and the handling of the product. It is also the responsibility of the handlers of the product to pass on to any subsequent persons who will come into contact with the product (usage, storage, cleaning of containers, other processes) the totality of the information contained within this safety data sheet and necessary for safety at work, the protection of health and the protection of environment.

**NB: In this document the numerical separator of the thousands is the "." (point), the decimal separator is "," (comma).**