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

1.1. Product identifier

Product form: Mixture
Product name: Substi-Plomb - Lead Substitute - Loodvervanger
Product code: W70612

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

1.2.1. Relevant identified uses

Use of the substance/mixture: Petrol additive.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Wynn's Belgium
Industriepark-West 46
9100 Sint-Niklaas - Belgium
T +32 3 766 60 20 - F +32 3 778 16 56
msds@wynns.eu - www.wynns.be

1.4. Emergency telephone number

Emergency number: BIG: +32(0)14/58.45.45

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin Irrit. 2: H315
Eye Dam. 1: H318
Skin Sens. 1: H317
STOT RE 1: H372
Asp. Tox. 1: H304
Aquatic Chronic 3: H412

Full text of H-statements: see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Xn; R65
Xn; R48/20
Xi; R36
R43
R66
R52/53

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP): GHS05 GHS07 GHS08

Signal word (CLP): Danger

Hazardous ingredients: potassium 1,2-bis(2-ethylhexyloxy carbonyl)ethanesulphonate, Reaction mass of 2-tert-butyl-4,6-dimethylphenol and 4-tert-butyl-2,5-dimethylphenol, hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Hazard statements (CLP): H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H372 - Causes damage to organs (central nervous system) through prolonged or repeated exposure
H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (CLP):
- P102 - Keep out of reach of children
- P405 - Store locked up
- P260 - Do not breathe vapours
- P280 - Wear eye protection, protective gloves
- P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER, a doctor
- P331 - Do NOT induce vomiting
- P273 - Avoid release to the environment

2.3. Other hazards
No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance
Not applicable

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>% w</th>
<th>Classification according to Directive 67/548/EEC</th>
</tr>
</thead>
<tbody>
<tr>
<td>hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)</td>
<td>(EC no) 919-164-8</td>
<td>75 - 90</td>
<td>Xn; R48/20 Xn; R65 R66</td>
</tr>
<tr>
<td>potassium 1,2-bis(2-ethylhexyloxy carbonyl)ethanesulphonate</td>
<td>(CAS No) 7491-09-0</td>
<td>5 - 10</td>
<td>Xi; R38 Xi; R41</td>
</tr>
<tr>
<td>hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics</td>
<td>(EC no) 926-141-6</td>
<td>5 - 10</td>
<td>Xn; R65 R66</td>
</tr>
<tr>
<td>Reaction mass of 2-tert-butyl-4,6-dimethylphenol and 4-tert-butyl-2,5-dimethylphenol</td>
<td>(EC no) 911-254-5</td>
<td>1 - 2,5</td>
<td>Xn; R22 Xn; R48/22 Xi; R36/38 R43 N; R50/S3 T; R24</td>
</tr>
<tr>
<td>2,6-di-tert-butyl-p-cresol</td>
<td>(CAS No) 128-37-0</td>
<td>0,1 - 1</td>
<td>N; R50/S3</td>
</tr>
</tbody>
</table>

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<tr>
<th>Name</th>
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<th>% w</th>
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<td>75 - 90</td>
<td>STOT RE 1, H372 Asp. Tox. 1, H304 Aquatic Chronic 3, H412</td>
</tr>
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<td>potassium 1,2-bis(2-ethylhexyloxy carbonyl)ethanesulphonate</td>
<td>(CAS No) 7491-09-0</td>
<td>5 - 10</td>
<td>Skin Irrit. 2, H315 Eye Dam. 1, H318</td>
</tr>
<tr>
<td>hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics</td>
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<td>5 - 10</td>
<td>Asp. Tox. 1, H304</td>
</tr>
<tr>
<td>Reaction mass of 2-tert-butyl-4,6-dimethylphenol and 4-tert-butyl-2,5-dimethylphenol</td>
<td>(EC no) 911-254-5</td>
<td>1 - 2,5</td>
<td>Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410</td>
</tr>
<tr>
<td>2,6-di-tert-butyl-p-cresol</td>
<td>(CAS No) 128-37-0</td>
<td>0,1 - 1</td>
<td>Aquatic Acute 1, H400 Aquatic Chronic 1, H410</td>
</tr>
</tbody>
</table>

Full text of R- and H-statements: see section 16
## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### First-aid measures general


#### First-aid measures after inhalation

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

#### First-aid measures after skin contact

Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation occurs: Get medical advice/attention.

#### First-aid measures after eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Contact ophthalmologist immediately.

#### First-aid measures after ingestion

Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell. Ingestion of large quantities: immediately to hospital.

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

#### Symptoms/injuries after skin contact

May cause sensitization by skin contact. Repeated or prolonged skin contact may cause dermatitis and defatting.

#### Symptoms/injuries after eye contact

Causes serious eye damage.

#### Symptoms/injuries after ingestion

Harmful if swallowed. Headache. Abdominal pain. May be fatal if swallowed and enters airways. Risk of aspiration pneumonia.

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

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media: Water spray. AFFF foam. ABC-powder.

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

#### Fire hazard

Combustible liquid. This material can accumulate static charge by flow or agitation and can be ignited by static discharge.

#### Explosion hazard

No direct explosion hazard.

### 5.3. Advice for firefighters

#### Firefighting instructions

Prevent fire-fighting water from entering environment.

#### Protection during firefighting

Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

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

#### General measures

Use special care to avoid static electric charges. No open flames. No smoking.

#### 6.1.1. For non-emergency personnel


Emergency procedures: Mark the danger area. Seal off low-lying areas. Large spills/in enclosed spaces: compressed air apparatus. Wash contaminated clothes.

#### 6.1.2. For emergency responders

Protective equipment: Equip cleanup crew with proper protection.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

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

#### For containment

Contain leaking substance, pump over in suitable containers.

Methods for cleaning up: Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Clean with detergents. Avoid solvent cleaners.
6.4. Reference to other sections
No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Meets the legal requirements. Repeated or prolonged contact with the product may lead to removal of natural fats from the skin. Presents no particular risk when handled in accordance with good occupational hygiene practice.

Hygiene measures: Use good personal hygiene practices. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Meets the legal requirements. Keep container tightly closed. Protect from sunlight. Store in a well-ventilated place.

Storage temperature: < 45 °C

Storage area: Meets the legal requirements. Keep container tightly closed in a cool, well-ventilated place. Ventilation along the floor.

Special rules on packaging: Keep only in original container. correctly labelled.

7.3. Specific end use(s)
No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Italy - Portugal - USA  ACGIH TWA (ppm)  100 ppm

2,6-di-tert-butyl-p-cresol (128-37-0)

Belgium  Limit value (mg/m³)  2 mg/m³

8.2. Exposure controls

Appropriate engineering controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Does not require any specific or particular technical measures.

Personal protective equipment: Gloves. Safety glasses.

Hand protection: Neoprene. Nitrile. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Time of penetration is to be checked with the glove producer.

Other information: Breakthrough time : >30’. Thickness of the glove material >0,1 mm.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid

Appearance: Clear.

Colour: red.

Odour: Petroleum-like odour.

Odour threshold: No data available

pH: No data available

Relative evaporation rate (butylacetate=1): No data available

refraction index: 1,45

Melting point: No data available

Freezing point: No data available

Boiling point: No data available

Flash point: 62 °C

Auto-ignition temperature: No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapour pressure : No data available
Relative vapour density at 20 °C : No data available
Relative density : No data available
Density @20°C : 827 kg/m³
Solubility : Insoluble in water.
Log Pow : No data available
Log Kow : No data available
Viscosity, kinematic @40°C : 1,5 mm²/s
Viscosity, dynamic @40°C : No data available
Viscosity : 
Viscosity Index : 
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

9.2. Other information
Additional information : The physical and chemical data in this section are typical values for this product and are not intended as product specifications.

SECTION 10: Stability and reactivity

10.1. Reactivity
No additional information available

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
No additional information available

10.4. Conditions to avoid
Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Keep away from strong acids and strong oxidizers.

10.5. Incompatible materials
No additional information available

10.6. Hazardous decomposition products

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity : Harmful: may cause lung damage if swallowed

Reaction mass of 2-tert-butyl-4,6-dimethylphenol and 4-tert-butyl-2,5-dimethylphenol
ATE CLP (oral) : 500,000 mg/kg bodyweight
Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Causes serious eye damage.
Respiratory or skin sensitisation : May cause an allergic skin reaction.
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
Specific target organ toxicity (single exposure) : Not classified
Specific target organ toxicity (repeated exposure) : Causes damage to organs (central nervous system) through prolonged or repeated exposure.
Aspiration hazard : May be fatal if swallowed and enters airways.
SECTION 12: Ecological information

12.1. Toxicity
Ecology - general : May cause long lasting harmful effects to aquatic life.
Ecology - water : Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

12.3. Bioaccumulative potential
No additional information available

12.4. Mobility in soil
2,6-di-tert-butyl-p-cresol (128-37-0) Ecology - soil May be harmful to plant growth, blooming and fruit formation.

12.5. Results of PBT and vPvB assessment
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects
No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Waste disposal recommendations : Remove to an authorized waste treatment plant.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number
Not regulated for transport

14.2. UN proper shipping name
Not applicable

14.3. Transport hazard class(es)
Not applicable

14.4. Packing group
Not applicable

14.5. Environmental hazards
Other information : No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport
No additional information available

14.6.2. Transport by sea
No additional information available

14.6.3. Air transport
No additional information available

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code
Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations
Contains no substances with Annex XVII restrictions
Substi-Plomb - Lead Substitute - Loodvervanger

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Substi-Plomb - Lead Substitute - Loodvervanger is not on the REACH Candidate List
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances

15.1.2. National regulations
Water hazard class (WGK) : 2 - hazard to waters

15.2. Chemical safety assessment
No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-statements:

Acute Tox. 4 (Oral)  Acute toxicity (oral), Category 4
Aquatic Acute 1  Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1  Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 3  Hazardous to the aquatic environment — Chronic Hazard, Category 3
Asp. Tox. 1  Aspiration hazard, Category 1
Eye Dam. 1  Serious eye damage/eye irritation, Category 1
Eye Irrit. 2  Serious eye damage/eye irritation, Category 2
Skin Irrit. 2  Skin corrosion/irritation, Category 2
Skin Sens. 1  Sensitisation — Skin, category 1
STOT RE 1  Specific target organ toxicity — Repeated exposure, Category 1
STOT RE 2  Specific target organ toxicity — Repeated exposure, Category 2
H302  Harmful if swallowed
H304  May be fatal if swallowed and enters airways
H315  Causes skin irritation
H317  May cause an allergic skin reaction
H318  Causes serious eye damage
H319  Causes serious eye irritation
H372  Causes damage to organs through prolonged or repeated exposure
H373  May cause damage to organs through prolonged or repeated exposure
H400  Very toxic to aquatic life
H410  Very toxic to aquatic life with long lasting effects
H412  Harmful to aquatic life with long lasting effects
R22  Harmful if swallowed
R24  Toxic in contact with skin
R36  Irritating to eyes
R36/38  Irritating to eyes and skin
R38  Irritating to skin
R41  Risk of serious damage to eyes
R43  May cause sensitisation by skin contact
R48/20  Harmful: danger of serious damage to health by prolonged exposure through inhalation
R48/22  Harmful: danger of serious damage to health by prolonged exposure if swallowed
R50/53  Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R52/53  Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R65  Harmful: may cause lung damage if swallowed
R66  Repeated exposure may cause skin dryness or cracking
N  Dangerous for the environment
T  Toxic
**Substi-Plomb - Lead Substitute - Loodvervanger**

Safety Data Sheet

according to Regulation (EC) No. 453/2010

<table>
<thead>
<tr>
<th>Xi</th>
<th>Irritant</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xn</td>
<td>Harmful</td>
</tr>
</tbody>
</table>

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.