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## 1. Identification of Substance/Preparation and Company

### Product identifier

Company : WORX+  
Trade Name : **Totally Defend - TDISE**  
Article Number : 10949, 10950, 10951  
Application of the substance /  
the preparation : Protective impregnation

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

Manufacturer/Distributor : Worx+ Pty Ltd.  
Address : 5/176 Canterbury Rd. Bayswater Nth, 3153 Victoria  
Phone : 1300 897 873  
A.C.N No. : 162581366

Emergency telephone number : 131126

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## 2. Hazards identification

### Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

GHS02 flame

Flam. Liq. 3                      H226 Flammable liquid and vapour.

GHS08 health hazard

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Asp. Tox. 1                      : H304 May be fatal if swallowed and enters airways.

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**Acute Chronic Response**                      : H413 May cause long lasting harmful effects to aquatic life.

IF SWALLOWED                      : Immediately call a POISON CENTER or doctor/physician.

- IF INHALED : Remove individual to fresh air. Rest in a comfortable position.
- IF ON SKIN (on hair) : Immediately remove contaminated clothing. Rinse skin with water/shower.
- IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses where possible, rinse further.
- IF EXPOSED OR CONCERNED : Seek medical advice.
- STORAGE : Store in a secure, well-ventilated place. Keep cool. Store securely.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Xn; Harmful

- R65 : Harmful: may cause lung damage if swallowed. Avoid inhalation of vapours.
- R10-53-66-67 : Flammable. May cause long-term adverse effects in aquatic environments. Skin dryness or cracking may occur with frequent and repeated exposure. Drowsiness and dizziness may be experienced with exposure to vapours.

Classification system : The classification is accordance with latest editions of EU-lists.

**Label elements** :

Labelling according to EU guidelines : The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

Code letter and hazard designation of product : Xn Harmful

Hazard-determining components of labeling : Hydrocarbons, C4-, 1,3-Butadiene-free, polymerised, Triisobutyl Infracation, hydrogenated  
Hydrocarbons,C10-C12, Isoalkane, <2% Aromatic compounds.

|                                    |   |          |  |
|------------------------------------|---|----------|--|
| Risk phrases                       | : | 10       | Flammable.   |
|                                    |   | 53       | May cause long-term adverse effects in the aquatic environment.  |
|                                    |   | 65       | Harmful: may cause lung damage if swallowed.   |
|                                    |   | 66       | Repeated exposure may cause skin dryness or cracking.  |
|                                    |   | 67       | Vapours may cause drowsiness and dizziness.  |
| Safety phrases                     | : | 2        | Keep out of the reach of children.   |
|                                    |   | 23       | Do not inhale vapours.   |
|                                    |   | 24/25    | Avoid contact with skin and eyes.  |
|                                    |   | 26       | In case of contact with eyes, rinse with water immediately and seek medical advice.                                  |
|                                    |   | 27/28    | Upon contact with skin, remove contaminated clothing immediately, and rinse with sufficient water and soap.          |
|                                    |   | 29/56    | Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. |
|                                    |   | 36/37/39 | Wear suitable protective clothing, gloves and eye/face protection.   |
|                                    |   | 38       | Wear suitable respiratory equipment where ventilation is inadequate/insufficient.                                    |
|                                    |   | 46       | If swallowed, seek medical advice immediately and present container or label.  |
|                                    |   | 51       | Use in well-ventilated areas only.   |
| <b>Other hazards</b>               | : |          |  |
| Results of PBT and vPcB assessment |   |          |  |
| PBT                                | : |          | Not applicable.  |
| vPvB                               | : |          | Not applicable.  |

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### 3. Composition / Information on ingredients

|                                  |   |   |
|----------------------------------|---|---|
| <b>Chemical characterization</b> | : | <b>Mixtures</b>   |
| Description                      | : | Mixture of substances listed below with nonhazardous additions. |
| <b>Dangerous components</b>      | : |   |

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|  |   |        |
|--|---|--------|
| CAS: 93685-81-5<br>EINECS: 297-629-8                               | Hydrocarbons, C4-, 1,3-Butadiene-free, polymerised,<br>Triisobutyl Infracation, hydrogenated<br>Xn R65<br>R10-53-66 | 25-50% |
|  | Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic<br>Chronic 4, H413   |        |
| EC number: 923-037-2   | Hydrocarbons, C10-C12, Isoalkane, <2% Aromatic<br>compounds<br>Xn R65<br>R10-53-66                                  | 25-50% |
|  | Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic<br>Chronic 4, H413   |        |
| CAS: 64741-65-7<br>EINECS: 265-067-2<br>Index number: 649-275-00-4 | Naphtha (petroleum), heavy alkylate<br>Xn R65<br>R53-66   | <12.5% |
|  | Flam. Liq. 3, H226; Acute Tox. 3, H331;<br>Asp. Tox. 1, H304; Aquatic Chronic 4, H413                               |        |
| CAS: 90622-58-5<br>EINECS: 292-460-6                               | Alkanes, C11-C15, iso<br>Xn R65<br>R53-66   | 1-5%   |
|  | Acute Tox. 3, H331; Asp. Tox. 1, H304; Aquatic<br>Chronic 4, H413   |        |

Regulation (EC) No 648/2004 on detergents / Labelling for contents  
aliphatic hydrocarbons

≥ 30%

Additional information : For the wording of the listed risk phrases refer to section 16.

## 4. First aid measures

### Description of first aid measures

**General information** : Immediately remove soiled clothing.  
Transport individual to fresh air.  
Position individual stably in side position.

|  |   |  |
|--|---|--|
| <b>After inhalation</b>  | : | Expose to fresh air; consult doctor in case of side effects.   |
| <b>After skin contact</b>  | : | Immediately wash with water and soap and rinse thoroughly.<br>If skin irritation continues, consult a doctor.  |
| <b>After eye contact</b>   | : | Rinse opened eye for several minutes under running water.<br>Then consult a doctor.  |
| <b>After swallowing</b>  | : | Do not induce vomiting; call for medical help immediately.   |
| <b>Information to Doctor</b>   | : | Symptoms in intoxication with (aromatic) hydrocarbons (dosis letalis about 30 g)<br>a) In acute intoxication: headache, dizziness, euphoria, gastro-intestinal dysfunction, state of excitement, coma.<br>b) In chronic intoxication: myelotoxic damage, fatigue, dizziness, emaciation, cardiac palpitation after physical exercise, leucopenia, anemia, leukosis.<br>Therapy in hydrocarbons intoxication: In case of inhalation provision of fresh air; in case of peroral intake administration of Carbo medicinalis; only after intubation conduct of gastrolavage in application of Carbo medicinalis; in case of cramps administration of Diazepam 20 mg intravenously. |
| Most important symptoms and effects, both acute and delayed                  | : | Headache<br>Breathing difficulty<br>Profuse sweating<br>Dizziness<br>Dizziness<br>Nausea   |
| Hazards  | : | Danger of impaired breathing.  |
| Indication of any immediate medical attention and special treatment required | : | If swallowed, gastric irrigation with added, activated carbon.<br>If swallowed or in case of vomiting, danger of entering the lungs.   |

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## 5. Fire fighting measures

- Extinguishing Media** :
- Suitable extinguishing agents** : CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents** : Water with full jet
- Special hazards arising from the substance or mixture** : Formation of toxic gases is possible during heating or in case of fire.  
In case of fire, the following can be released:  
Carbon monoxide (CO)  
Under certain fire conditions, traces of other toxic gases cannot be excluded.
- Advice for firefighters** :
- Protective equipment** : Wear self-contained respiratory protective device.  
Do not inhale explosion gases or combustion gases.  
Wear fully protective suit.
- Additional information** : Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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## 6. Accidental release measures

- Personal precautions, protective equipment and emergency procedures** : Wear protective equipment. Individuals without adequate PPE shall be removed from work area.  
Ensure adequate ventilation  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Keep away from ignition sources.
- Environmental precautions** : Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.

**Methods and material for**

**containment and cleaning up** : Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of contaminated material as waste according to item 13.  
Ensure adequate ventilation.

**Reference to other sections** : See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

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## 7. Handling and storage

**Handling** :

Precautions for safe handling : Keep receptacles tightly sealed.  
Store in cool, dry place in tightly closed receptacles.  
Keep away from heat and direct sunlight.  
Ensure sufficient interior ventilation, particularly at floor level. (Fumes are heavier than air).  
Use in well ventilated areas only.

Information about fire – and explosion protection : Keep away from ignition sources - Do not smoke.  
Protect against electrostatic charges.

**Conditions for safe storage, including any incompatibilities**

**Storage** :

Storeroom and receptacle requirements : Store in a cool location.  
Store in original receptacle.  
Prevent seepage into ground.

Information about storage in one common storage facility : Store away from oxidizing agents.  
Store away from foodstuffs.

Further information about storage conditions : Store in cool, dry conditions in well sealed receptacles.  
Keep container tightly sealed.  
Store receptacle in a well ventilated area.

**Specific end use(s)** : No further relevant information available.

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## 8. Exposure controls / personal protection

**Additional information about design of technical facilities** : No further data; see item 7.

**Control parameters** :

**Ingredients with limit values that require monitoring at the workplace** : The product does not contain any relevant quantities of materials with critical values requiring workplace monitoring.

**Exposure controls** :

**Personal protective equipment** :

General protective and hygienic measures : The usual precautionary measures are to be adhered to when handling chemicals.  
Keep away from foodstuffs, beverages and feed.  
Wash hands before breaks and at the end of work.  
Immediately remove all soiled and contaminated clothing  
Avoid contact with the eyes and skin.  
Do not eat, drink, smoke or sniff while working.  
Apply solvent resistant skin cream before starting work.  
Use skin protection cream for skin protection.  
Clean skin thoroughly immediately after handling the product.

Respiratory protection : Use suitable respiratory protective device in case of insufficient ventilation.  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.  
Filter AX



Production of hands : Preventive skin protection by use of skin-protecting agents is recommended.  
After use of gloves apply skin-cleaning agents and barrier cream.

#### Protective gloves

Glove material must be impermeable and resistant to the product/ the substance/ the preparation.

Gloves to comply with the specifications of the directive 89/686/EC and the directive derived decree EN374, respectively. Where dilutions with other substances occur, the producer of CE approved protection gloves must be contacted for detailed information/advice.

Material of gloves : Fluorocarbon rubber (Viton)  
The selection of the suitable gloves is not solely dependant on material composition, but varies in regards to quality from manufacturer to manufacturer.

Penetration time of glove material : Value for the permeation: Level  $\geq 3$ , 120 min

For permanent contact suitable glove materials include :  
Fluorocarbon rubber (Viton)  
Vitoject (KCL, Art No. 890)

|   |   |  |
|---|---|--|
| As protection from splashes<br>suitable glove materials include | : | Nitrile rubber, NBR<br>Camatril (KCL, 730, 731, 732, 733)<br>Chloroprene rubber, CR<br>Camapren (KCL, Art No. 720, 722, 726)<br>Butyl rubber, BR<br>Butoject (KCL, Art No. 897, 898)<br>Fluorocarbon rubber (Viton)<br>Vitoject (KCL, Art No. 890) |
| Unsuitable glove materials                                      | : | Natural rubber, NR<br>Leather gloves<br>Strong material gloves   |
| Eye protection  | : | Tightly sealed goggles   |
| Body protection   | : | Protective work clothing   |

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## 9. Physical and chemical properties

### General Information

#### Appearance:

|        |   |                |
|--------|---|----------------|
| Form   | : | Fluid          |
| Colour | : | Colourless     |
| Odour  | : | Characteristic |

**pH-value** : Not applicable

#### Change in condition

|                             |   |               |
|-----------------------------|---|---------------|
| Melting point/Melting range | : | Undetermined. |
| Boiling point/Boiling range | : | 180°C         |

**Flash point** : 41°C

**Ignition temperature** : 354°C

**Self-igniting** : Product is not selfigniting.

**Danger of explosion** : Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

|   |   |  |
|---|---|--|
| <b>Explosion limits</b>                 | : |  |
| Lower                                   | : | 0.6 Vol %                                  |
| Upper                                   | : | 7.0 Vol %                                  |
| <b>Vapour pressure at 20°C</b>          | : | 1 hPa                                      |
| <b>Density at 20°C</b>                  | : | 0.77 g/cm <sup>3</sup>                     |
| <b>Solubility in / Miscibility with</b> | : |  |
| Water                                   | : | Not miscible or difficult to mix.          |
| <b>Viscosity</b>                        | : |  |
| Dynamic                                 | : | Not determined.                            |
| Kinematic at 20°C                       | : | 11 s (DIN 53211/4)                         |
| <b>Solvent content</b>                  | : |  |
| Organic solvents                        | : | 90.9 %                                     |
| <b>Other information</b>                | : | No further relevant information available. |

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## 10. Stability and reactivity

|   |   |   |
|---|---|---|
| Reactivity  | : |   |
| Chemical stability                                  | : |   |
| Thermal decomposition /<br>conditions to be avoided | : | No decomposition if used according to specifications.<br>No decomposition if used and stored according to specifications. |
| Possibility of Hazardous<br>Reactions               | : | Reacts with strong oxidizing agents.<br>Forms flammable gases/fumes.  |
| Conditions to avoid                                 | : | No further relevant information available.  |
| Incompatible materials                              | : | No further relevant information available.  |
| Hazardous decomposition<br>products                 | : | Carbon monoxide and carbon dioxide  |

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## 11. Toxicological information

### Information on toxicological effects

**Acute toxicity** :

LD/LC50 values relevant for classification:

#### 64741-65-7 Naphtha (petroleum), heavy alkylate

|            |          |                    |
|------------|----------|--------------------|
| Oral       | LD50     | > 6000 mg/kg (rat) |
| Dermal     | LD50     | > 3000 mg/kg (rbt) |
| Inhalative | LC50/4 h | > 7.8 mg/l (rat)   |

Primary irritant effect :  
on the skin : No irritant effect.  
on the eye : No irritating effect.  
Sensitization : No sensitizing effects known.

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## 12. Ecological information

### Toxicity

Aquatic toxicity : No further relevant information available.

**Persistence and degradability** : No further relevant information available.

### Behaviour in environmental systems

Bioaccumulative potential : No further relevant information available.

Mobility in soil : No further relevant information available.

### Additional ecological information

General notes : Do not allow product to reach ground water, water course or sewage system.  
Slightly hazardous for water

### Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.  
**Other adverse effects** : No further relevant information available.

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### 13. Disposal considerations

**Waste treatment methods** :  
Recommendation : Must not be disposed of together with household garbage.  
Comply with local/national waste disposal regulations.

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**Uncleaned packaging** :  
Recommendation : Disposal must be made according to official local/national regulations.  
Empty contaminated packaging thoroughly. They may be recycled after thorough and proper cleaning.  
Recommended cleansing agents : Alcohol

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### 14. Transport information

**UN-Number** :  
ADR, IMDG, IATA : UN1993  
**UN proper shipping name** :  
ADR : 1993 FLAMMABLE LIQUID, N.O.S., special provision 640E (DIESEL FUEL)

IMDG, IATA : FLAMMABLE LIQUID, N.O.S. (DIESEL FUEL)

**Transport hazard class(es)** :  
ADR

Class : 3 (F1) Flammable liquids.  
Label : 3

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IMDG, IATA

Class : 3 Flammable liquids.  
Label : 3

|  |   |  |
|--|---|--|
| <b>Packing group</b>   | : |  |
| ADR, IMDG, IATA  | : | III  |
| <b>Environmental hazards</b>   | : |  |
| Marine pollutant:  | : | No   |
| <b>Special precautions for user</b>  | : | Warning: Flammable liquids.  |
| Danger code (Kemler):  | : | 30   |
| EMS Number:  | : | F-E,S-D  |
| <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | : | Not applicable.  |
| <b>Transport/Additional information</b>  | : |  |
| ADR  |   |  |
| Limited quantities (LQ)  | : | 5L   |
| Transport category   | : | 3  |
| Tunnel restriction code  | : | D/E  |
| <b>UN "Model Regulation"</b>   | : | UN1993, FLAMMABLE LIQUID, N.O.S., special provision 640E (DIESEL FUEL), 3, III |

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## 15. Regulatory information

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

|                                   |   |   |
|-----------------------------------|---|---|
| <b>National regulations</b>       | : |   |
| Water hazard class                | : | Water hazard class 1 (Self-assessment): slightly hazardous for water. |
| VOC EU                            | : | 696.4 g/l   |
| <b>Chemical safety assessment</b> | : | A Chemical Safety Assessment has not been carried out.                |

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## 16. Other information

Information based on current knowledge. This shall however not constitute a guarantee for any specific product features nor establish a legally valid contractual relationship.

**Relevant phrases** :

- H226 : Flammable liquid and vapour.
- H304 : May be fatal if swallowed and enters airways.
- H331 : Toxic if inhaled.
- H413 : May cause long lasting harmful effects to aquatic life.

- 
- R10 : Flammable.
  - R53 : 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.

Recommended restriction of use: Refer to Technical Data Sheet (TDS)

**Department issuing MSDS** : Product Development

**Contact** : 1300 897 873

**Abbreviations and acronyms** :

- ADR : Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- RID : Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- IMDG : International Maritime Code for Dangerous Goods
- IATA : International Air Transport Association
- ICAO : International Civil Aviation Organization
- GHS : Globally Harmonized System of Classification and Labelling of Chemicals
- LC50 : Lethal concentration, 50 percent
- LD50 : Lethal dose, 50 percent

**MSDS Code Used** :

\* Data compared to the previous version altered.

Adaptation in accordance with REACH directive 1907/2006/EC

**MSDS Dates and Revisions**

MSDS Original Preparation Date : October 15, 2013

MSDS Latest Revision Date :

Sections Changed in  
Latest revision : 0

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MSDS APPROVED: Tim Van Der Veen

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