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## SAFETY DATA SHEET

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### 1 Identification of the substance or preparation and the supplier

Product Name: **DUAL PURPOSE PLUS**  
 Datasheet Number: 571166 3.0.0  
 Use of the substance/preparation: Fuel treatment, Combustion improver  
 Product Part Number: 571166 (25 liter), 571182 (210 liter)

Name of Supplier: Unitor ASA  
 Address of Supplier: Willem Barentszstraat 50  
 3165 AB Rotterdam-Albrandswaard  
 The Netherlands

Telephone: +31 10 4877 777  
 Fax: +31 10 4877 888  
 Responsible Person: Leen de Visser, Corporate Product Safety Manager, Tel.: +31 6 538 63736

Name of Manufacturer: UNITOR CHEMICALS AS  
 Address of Manufacturer: P.O.Box 15  
 3141 Kjøpmannskjær  
 Norway.

Telephone: +47 333 515 00

Emergency Telephone: NCEC: +44 1865 407333  
 CHEMTREC (800) 424 9300  
 CMA +1 703 527 3887  
 Greece +30 1 7793777

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### 2 Composition/information on ingredients

Chemical Name	Concentration	CAS Number	EC Number	R Phrases	Symbols
Naphtha, low boiling, hydrogen treated	60-100	64742-82-1	265-185-4	65, 66	Xn
Iron carboxylate	1-5	61788-81-6	N/A	65	Xn
Fuel, diesel	5-10	68334-30-5	269-822-7	40	Xn
N-Oleyl-1,3-diaminopropane	0-1	7173-62-8	230-528-9	22, 34, 50	C, N
Dimethylpiperazine	0.05	140-31-8	205-411-0	21/22, 34, 43, 52/53	C

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### 3 Hazards identification

- Odour: Smells of hydrocarbon
- Appearance: Liquid, dark, brown, insoluble in water
- Contact with eyes: Causes redness and irritation
- Contact with skin: Prolonged skin contact will result in defatting of the skin, leading to irritation, and in some cases, dermatitis
- Inhalation: In cases of severe exposure, anaesthesia may develop, May cause chronic pneumonitis, May cause coughing
- Limited evidence of carcinogenic effect (R40)

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### 3 Hazards identification (....)



Harmful

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### 4 First aid measures

#### Contact with skin

- Remove contaminated clothing immediately and drench affected skin with plenty of water
- Contaminated clothing should be laundered before reuse
- Seek medical attention if irritation persists

#### Contact with eyes

- If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes
- Irrigate eyes thoroughly whilst lifting eyelids
- When in doubt or symptoms persist, seek medical attention

#### Ingestion

- Do not induce vomiting because of risk of aspiration into the lungs. If aspiration is suspected obtain immediate medical attention
- If vomiting occurs turn patient on side
- Obtain immediate medical attention

#### Inhalation

- Remove patient to fresh air
- Seek medical attention if ill effects occur

#### General

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

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### 5 Fire-fighting measures

- Auto-ignition point 250 deg C at 760 mm Hg
- Flash point >62 deg C (CC)
- Carbon oxides may be formed
- In case of fire use water spray or fog, alcohol resistant foam, dry chemical or carbon dioxide (S43)
- Do not use water jets
- Prevent run off water from entering drains if possible
- Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback

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### 6 Accidental release measures

#### Personal Precautions

- Wear protective clothing as per section 8

#### Environmental Precautions

- Do not allow to enter public sewers and watercourses

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## 6 Accidental release measures (...)

### Immediate Actions

- Contain spillage by any means possible

### Clean Up Actions

- Absorb spillage in inert material and shovel up
- Ventilate the area and wash spill site after material pick-up is complete

### Special Precautions

- Do not allow to enter public sewers and watercourses
- Wear protective clothing as per section 8

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## 7 Handling and storage

### Handling

- Avoid contact with skin and eyes (S24/25)
- Eyewash bottles should be available
- Wear protective clothing as per section 8

### Storage

- Keep only in the original container in a cool, well ventilated place (S3/9/49)
- Keep container tightly closed (S7)
- Keep away from open flames, hot surfaces and sources of ignition.

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## 8 Exposure controls and personal protection

### Exposure Limits

- TLV (TWA) 275 mg/m<sup>3</sup> (Naphtha, low boiling, hydrogen treated)

### Exposure controls

- No special ventilation is required unless the product is used in a spray form

### Occupational exposure controls

- No respiratory protection is required unless subject to contact with substance mist
- During fumigation/spraying wear suitable respiratory equipment (S42)
- Wear suitable protective clothing, including eye/face protection and gloves (neoprene or nitrile are recommended)



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## 9 Physical and chemical properties

- Odour: Smells of hydrocarbon
- Appearance: Liquid, dark, brown, insoluble in water
- pH - not applicable
- Boiling point 170 °C to 210 °C at 760 mm /Hg

## 9 Physical and chemical properties (....)

- Vapour pressure - not known
    - Vapour density (air = 1) >1
    - Freezing point unknown
    - Insoluble in water
    - Specific gravity (water=1) 0.835
    - Flash point >62 deg C (CC)
    - Auto-ignition point 250 deg C at 760 mm Hg
    - Lower explosive limit 0.5 % (in air)
- Upper explosive limit 7 % (in air)
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## 10 Stability and reactivity

- This article is considered stable under normal conditions
  - Keep away from naked flames, incandescent or hot surfaces
  - See Section 5
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## 11 Toxicological information

### Toxicological information

- No experimental data available

### Inhalation

- Inhalation of solvent vapours may give rise to nausea, headaches and dizziness

### Contact with skin

- Prolonged skin contact will result in defatting of the skin, leading to irritation, and in some cases, dermatitis
- Contains Dimethylpiperazine. May produce an allergic reaction.

### Contact with eyes

- Causes irritation

### Ingestion

- Aspiration hazard
- Harmful: may cause lung damage if swallowed (R65)

### Carcinogenicity

- Limited evidence of carcinogenic effect (R40)
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## 12 Ecological information

### Ecotoxicity

- May cause acute effects in the aquatic environment
- This product contains components which are classified in the EU as dangerous for the environment.

### Mobility

- Insoluble in water

### Persistence and Biodegradability

- The components in this product are readily biodegradable.
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## 12 Ecological information (...)

### Bioaccumulation Potential

- Hydrocarbon solvents have the potential to bioaccumulate.

### Other Adverse Effects

- No environmental problems are expected when the product is used / handled correctly.

In its intended use, the product will not be released into the environment.

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## 13 Disposal considerations

### Classification

- EU Waste class: 07.01
- This material and/or its container must be disposed of as hazardous waste

### Disposal considerations

- Do not discharge into drains or the environment, dispose to an authorised waste collection point
  - Disposal should be in accordance with local, state or national legislation
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## 14 Transport information

- Not classified as hazardous for transport
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## 15 Regulatory information



Harmful

### Risk Phrases

- Limited evidence of carcinogenic effect (R40)
- Harmful: may cause lung damage if swallowed (R65)
- Repeated exposure may cause skin dryness or cracking (R66)
- Contains Dimethylpiperazine. May produce an allergic reaction.

### Safety Phrases

- Wear suitable protective clothing, eye/face protection and gloves (S36/37/39)
  - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) (S45)
  - If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label (S62)
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## 16 Other information

(R21/22: Harmful in contact with skin and if swallowed. R22: Harmful if swallowed. R34: Causes burns. R40: Limited evidence of carcinogenic effect. R43: May cause sensitisation by skin contact. R50: Very toxic to aquatic organisms. 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.)

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**16 Other information (....)**

The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents

The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties

The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer

This Safety Data Sheet is provided in compliance with The Dangerous Substances Directive (67/548/EEC)

This Safety Data Sheet is provided in compliance with The Dangerous Preparations Directive (88/379/EEC)

This Safety Data Sheet is provided in compliance with The Safety Data Sheets Directive (2001/58EC)