

**SAFETY DATA SHEET (EC 1907/2006)****DYHARD® UR 300**

Material no.	50001567	Version	7.0 / REG_EU
Specification	132633	Revision date	04.05.2012
VA-Nr	00108758	Print Date	05.05.2012
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**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product information**

Trade name DYHARD® UR 300

Company AlzChem AG  
CHEMIEPARK TROSTBERG  
Dr.-Albert-Frank-Str. 32  
D-83308 Trostberg, Germany

Telephone +49 (0)8621 86-3351  
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Emergency telephone number(Telefax) +49 (0)8621 86-2039  
Fire Brigade, Site Trostberg, AlzChem AG

Use of the Substance / Preparation Accelerator

REACH Registration No.: if available listed in Chapter. 3

**2. HAZARDS IDENTIFICATION****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Eye irritation	Category 2	H319
Specific Target Organ Toxicity - Single exposure	Category 3	H335
Reproductive toxicity	Category 2	H361d
Hazardous to the aquatic environment - Chronic Hazard	Category 2	H411

**GHS-Labeling**

Statutory basis EU-CLP as per Regulation (EU) No. 1272/2008

Symbol(s)



Signal word Warning

Hazard statement H319 - Causes serious eye irritation.  
H335 - May cause respiratory irritation.  
H361d - Suspected of damaging the unborn child.  
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statement: Prevention P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement: Reaction P312 - Call a POISON CENTER or doctor/physician if you feel unwell.

Precautionary statement: Disposal P501 - Dispose of contents/container in accordance with local regulation.

**Classification as per Directive 67/548/EC or Directive 1999/45/EC**

R36/37: Irritating to eyes and respiratory system.  
R63: Possible risk of harm to the unborn child.  
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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**Other Hazards**

The product has phytotoxic effects (herbicide).  
 If dust occurs:  
 danger of dust explosion

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Information on ingredients / Hazardous components as per EU-CLP Regulation (EC) No. 1272/2008**

<b>• fenuron</b>		<b>&gt; 98,0%</b>	
CAS-No.	101-42-8	EC-No.	202-941-4
Eye irritation		Category 2	H319
Specific Target Organ Toxicity - Single exposure		Category 3	H335
Reproductive toxicity		Category 2	H361d
Hazardous to the aquatic environment - Chronic Hazard		Category 2	H411

**Information on ingredients / Hazardous components as per Directive 67/548/EC or Directive 1999/45/EC**

<b>• fenuron</b>		<b>&gt; 98,0%</b>	
CAS-No.	101-42-8	EC-No.	202-941-4
		Repr.Cat.3; Xn; R63	
		N; R51/53	
		Xi; R36/37	

Texts of H phrases, see in Chapter 16  
 See chapter 16 for text of risk phrases

**4. FIRST AID MEASURES****Inhalation**

Move to fresh air.  
 Consult a physician after significant exposure.

**Skin contact**

Take off contaminated clothing and shoes immediately.  
 Wash off with soap and plenty of water.  
 If skin irritation occurs, call physician.

**Eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.  
 Keep eye wide open while rinsing.

**Ingestion**

Rinse out mouth.  
 If conscious, drink plenty of water.  
 Consult a physician immediately.  
 Do not induce vomiting without medical advice.  
 If necessary, administer activated charcoal (10-20g) and sodium sulfate (20g).

**Most important symptoms and effects, both acute and delayed****Symptoms**

cyanosis  
 diarrhoea  
 vomiting  
 nausea

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

No specific antidote known.  
Symptomatic treatment.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

carbon dioxide (CO<sub>2</sub>), dry powder, water spray, foam

### Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

### Special hazards arising from the substance or mixture

In the case of fire, the following hazardous smoke fumes may be produced:

Carbon oxides  
nitrous gases  
ammonia  
amines

### Special protective equipment for fire-fighters

In the case of fire, wear respiratory protective equipment independent of surrounding air and chemical protective suit.

### Advice for firefighters

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.  
Ensure adequate ventilation.

### Environmental precautions

If spill area is on ground near valuable plants or trees, remove 5 cm of top soil after initial clean-up.  
Dike or contain spill.  
Shut off source of leak if safe to do so.

### Methods and material for containment and cleaning up

Sweep up and shovel.  
Avoid dust formation.

## 7. HANDLING AND STORAGE

### Handling

#### Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practices.

#### Advice on protection against fire and explosion

Avoid dust formation.  
Keep away from heat and sources of ignition.

#### Dust explosion class

St2  
ignition energy: 1 - 3 mJ  
Considerable danger of dust explosion

### Storage

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

Keep tightly closed in a dry and cool place.

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Suitable materials polyethylene

### Further information

Keep away from direct sunlight.

### Advice on common storage

Incompatible with strong acids and bases.

### German storage class

11 - Combustible Solids

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Other information

No substance-specific limiting value being known.

### Personal protective equipment

#### Respiratory protection

Respirator must be worn if exposed to dust.  
Protection grade A and P2

#### Hand protection

Wear protective gloves made of the following materials:

Glove material Polychloroprene with natural-latex liner., Recommendation: Camapren 722, Kächele-Cama Latex GmbH (KCL), Germany

Material thickness 0,6 mm

Break through time > 480 min

Method DIN EN 374

Glove material nitrile rubber, Recommendation: Camatril 730, Kächele-Cama Latex GmbH (KCL), Germany

Material thickness 0,4 mm

Break through time > 480 min

Method DIN EN 374

#### Eye protection

close-fitting protective goggles (e.g. closed goggles)

#### Skin and body protection

protective suit

#### Hygiene measures

Wash hands before breaks and immediately after handling the product.

When using, do not eat, drink or smoke.

Keep away from food, drink and animal feedingstuffs.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	solid, flakes, solid, powder
Colour	colourless
Odour	almost odourless
physical state	solid

### Information on basic physical and chemical properties

pH	6,6	(3,8 g/l)	(25 °C)
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Melting point/range	134 - 136 °C	
Boiling point/range	decomposes on distillation	
Ignition temperature	514 °C	
Thermal decomposition	> 180 °C Exothermic decomposition	
Lower explosion limit	dust:	50 g/m <sup>3</sup>
Vapour pressure	0,00021 hPa	(60 °C)
Density	ca. 1,19 g/cm <sup>3</sup>	(20 °C)
Bulk density	450 kg/m <sup>3</sup>	
Water solubility	3,8 g/l	(25 °C)
Solubility in other solvents	ca. 86 g/l	(20 - 25 °C)
	Medium:	Ethanol
Solubility in other solvents	ca. 63 g/l	(20 - 25 °C)
	Medium:	Acetone
Partition coefficient (n-octanol/water)	log Pow:	0,98
Molecular Weight	164,20 g/Mol	

**Further information**

Other information No further physicochemical data were determined.

**10. STABILITY AND REACTIVITY**

Stability	No decomposition if stored and applied as directed.
Conditions to avoid	> 180 °C
Incompatible materials	oxidizing agents, strong acids and strong bases
Hazardous decomposition products	ammonia, amines, isocyanides

**11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity	LD50 Rat: 6400 mg/kg literature
	LD50 mouse: 4700 mg/kg literature
	LD50 Rabbit: 4700 mg/kg literature
	LD50 guinea pig: 3200 mg/kg

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	literature
Acute dermal toxicity	LD50 Rabbit: 4700 mg/kg literature
	LD50 Rat: > 8000 mg/kg literature
Skin irritation	not irritating literature
Eye irritation	Irritating to eyes. literature
Repeated dose toxicity	Rat Testing period: 90 d NOEL: 25 mg/kg literature
Mutagenicity assessment	Not mutagenic in AMES Test.  literature
reproduction toxicity assessment	Possible risk of harm to the unborn child. (Repr. Cat. 3)
teratogenicity assessment	After the oral administration of 100 mg/kg, teratogenic effects and after 500 mg/kg, embryotoxic effects were observed in rats.
Further information	Irritating to respiratory system.

**12. ECOLOGICAL INFORMATION****Elimination information (persistence and degradability)**

Biodegradability	Result: Not readily biodegradable. literature
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**Behaviour in environmental compartments**

Bioaccumulation	Species: Fish Bioconcentration factor (BCF): 6 Method: (calculated) (literature value)
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**Ecotoxicity effects**

Toxicity to fish	LC50 <i>Poecilia reticulata</i> : 617 mg/l / 48 h literature
Toxicity to algae	IC 50 <i>Ankistrodesmus falcatus</i> : 1,55 mg/l End point: growth rate literature
Toxicity in other terrestrial non-mammals	bees Non toxic to bees (literature value)

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**Further information on ecology**

Further Information                      The product has phytotoxic effects (herbicide).  
Prevent uncontrolled release in the environment.

**13. DISPOSAL CONSIDERATIONS****Product**

In compliance with actual waste regulations, the product must be brought to a suitable disposal plant.

**Uncleaned packaging**

Packaging, that can not be reused after cleaning must be disposed or recycled in accordance with all federal, national and local regulations.

**14. TRANSPORT INFORMATION****Land transport ADR/RID/GGVSEB (Germany)**

Class	9
ADR/RID-Labels	9
UN-No	3077
Packaging group	III
orange warning plate	90 / 3077
Tunnel Restriction Code (ADR)	(E)

Description of the goods (Technical name)  
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (1,1-dimethyl-3-phenylurea)  
Environmentally Hazardous

**Sea transport IMDG-Code/GGVSee (Germany)**

Class	9
UN-No	3077
Packaging group	III
EmS	F-A, S-F

Proper technical name (Proper shipping name)  
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (1,1-dimethyl-3-phenylurea)  
Marine pollutant

**Air transport ICAO-TI/IATA-DGR**

Class	9
UN-No	3077
Packaging group	III

Proper technical name (Proper shipping name)  
Environmentally hazardous substance, solid, n.o.s. (1,1-dimethyl-3-phenylurea)  
Environmentally Hazardous

**Inland waterway transport ADN/GGVSEB (Germany)**

Class	9
ADR/RID-Labels	9
UN-No / Substance number	3077
Packaging group	III

Description of the goods (Technical name)  
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (1,1-dimethyl-3-phenylurea)  
Environmentally Hazardous

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**Loading instructions/Remarks**

IATA_C	ERG-Code 9L
IATA_P	ERG-Code 9L

**15. REGULATORY INFORMATION****registration**

Europe (EINECS/ELINCS)	listed/registered
USA (TSCA)	listed/registered
Canada (DSL)	listed/registered
Australia (AICS)	not listed/registered
Japan (MITI)	not listed/registered
Korea (TCCL)	listed/registered
Philippines (PICCS)	listed/registered
China	listed/registered
New Zealand	listed/registered

**National legislation****16. OTHER INFORMATION****Risk phrase (R phrase) texts**• **fenuron**

R63	Possible risk of harm to the unborn child.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R36/37	Irritating to eyes and respiratory system.

**Texts of the H-phrases**• **fenuron**

H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H361d	Suspected of damaging the unborn child.
H411	Toxic to aquatic life with long lasting effects.

**Further information**

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



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**Legend**

<b>ADR</b>	European Agreement concerning the International Carriage of Dangerous Goods by Road
<b>ADN</b>	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
<b>ASTM</b>	American Society for Testing and Materials
<b>ATP</b>	Adaptation to Technical Progress
<b>BCF</b>	Bioconcentration Factor
<b>BetrSichV</b>	German Ordinance on Industrial Safety and Health
<b>c. c.</b>	closed cup (geschlossenes Gefäß)
<b>CAS</b>	Chemical Abstract Services
<b>CESIO</b>	European Committee of Organic Surfactants and their Intermediates
<b>ChemG</b>	German Chemicals Act
<b>CMR</b>	Carcinogenic-Mutagenic-toxic for Reproduction
<b>DIN</b>	German Institute for Standardization
<b>DNEL</b>	Derived No Effect Level
<b>EINECS</b>	European Inventory of Existing Commercial Chemical Substances
<b>GefStoffV</b>	German Ordinance on Hazardous Substances
<b>GGVSEB</b>	German ordinance for road, rail and inland waterway transportation of dangerous goods
<b>GGVSee</b>	German ordinance for sea transportation of dangerous goods
<b>GLP</b>	Good Laboratory Practice.
<b>GMO</b>	Genetic Modified Organism
<b>IATA DGR</b>	International Air Transport Association – Dangerous Goods Regulations
<b>ICAO-TI</b>	International Civil Aviation Organisation - Technical Instructions
<b>IMDG Code</b>	International Maritime Dangerous Goods Code
<b>ISO</b>	International Organization For Standardization
<b>LOAEL</b>	Lowest Observed Adverse Effect Level
<b>LOEL</b>	Lowest Observed Effect Level
<b>NOAEL</b>	No Observed Adverse Effect Level
<b>NOEC</b>	No Observed Effect Concentration
<b>NOEL</b>	No Observed Effect Level
<b>o. c.</b>	open cup (offenes Gefäß)
<b>OECD</b>	Organisation for Economic Cooperation and Development
<b>OEL</b>	Occupational Exposure Limit
<b>PBT</b>	Persistent, Bioaccumulative, Toxic
<b>PEC</b>	Predicted Effect Concentration
<b>PNEC</b>	Predicted No Effect Concentration
<b>RID</b>	Regulations concerning the International Carriage of Dangerous Goods by Rail
<b>TA</b>	Technical Instructions (German Ordinance)
<b>TPR</b>	Third Party Representative (Art. 4)
<b>TRGS</b>	Technical Rules for Hazardous Substances (German Regulations)
<b>VCI</b>	German "Verband der Chemischen Industrie e. V."
<b>vPvB</b>	Very Persistent, Very Bioaccumulative
<b>VOC</b>	Volatile Organic Compounds
<b>VwVwS</b>	German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes
<b>WGK</b>	German Water Hazard Class
<b>WHO</b>	World Health Organization