

ASSOCIATE® 240 ECRef. 130000104114
Version 2.1 (replaces: Version 2.0)Revision Date 04.07.2018
Issue Date 04.03.2019

This Safety Data Sheet adheres to the standards and regulatory requirements of the European Union and may not meet the regulatory requirements in other countries.

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product name : ASSOCIATE® 240 EC
Synonyms : B12983098
DPX-QHC35

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

Use of the Substance/Mixture : Fungicide

1.3. Details of the supplier of the safety data sheet

Company : DuPont de Nemours South Africa (Pty) Ltd
34 Whiteley Road
Block B, 1st Floor
Melrose Arch
South Africa

Telephone : +27 (0) 11 218 8600

Telefax : +27 (0) 11 218 8664

E-mail address : SDS@Corteva.com

1.4. Emergency telephone number

Emergency telephone number : 0-800-983-611 (Toll free in-country) or +(44)-870-8200418 (CHEMTREC)
: +27 (0) 83 123 3911
: Poison Centres may only possess information required for products in accordance with Regulation (EC) No 1272/2008 and national legislation.

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EU) 1272/2008 (CLP)**

Serious eye damage/eye irritation, Category 2 H319: Causes serious eye irritation.
Carcinogenicity, Category 2 H351: Suspected of causing cancer.
Long-term (chronic) aquatic hazard, Category 1 H410: Very toxic to aquatic life with long lasting effects.

2.2. Label elements**Labelling according to Regulation (EU) 1272/2008 (CLP)**

Warning

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H319 Causes serious eye irritation.
H351 Suspected of causing cancer.
H410 Very toxic to aquatic life with long lasting effects.

Special labelling of certain substances and mixtures EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

P201 Obtain special instructions before use.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P391 Collect spillage.
P501 Dispose of contents/container to an approved facility in accordance with local, regional, national and international regulations.

Labelling according to EU Directives 67/548/EEC or 1999/45/EC

SP 1 Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

2.3. Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).
This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

SECTION 3: Composition/information on ingredients**3.1. Substances**

Not applicable

3.2. Mixtures

| Classification according to Directive 67/548/EEC | Classification according to Regulation (EU) 1272/2008 (CLP) | Concentration |
|--|---|----------------|
| Proquinazid (CAS-No.189278-12-4) | | |
| N;R50 R53 Carc.Cat.3;R40 | Carc. 2; H351 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 | 16,1 % |
| Tetraconazole (CAS-No.112281-77-3) (EC-No.407-760-6) | | |
| Xn;R20/22 N;R51/53 | Acute Tox. 4; H302 Acute Tox. 4; H332 Aquatic Chronic 2; H411 | 8,0 % |
| Fatty acids, C6-12, methyl esters (CAS-No.67762-39-4) (EC-No.267-017-5) | | |
| R10 | Flam. Liq. 3; H226 | >= 60 - < 65 % |


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2-Methylpropan-1-ol (CAS-No.78-83-1) (EC-No.201-148-0)

| | | |
|----------------------------------|---|--------------|
| Xi;R37/38 R41 R67 F;R10 | Flam. Liq. 3; H226 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H336 STOT SE 3; H335 | >= 1 - < 5 % |
|----------------------------------|---|--------------|

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

SECTION 4: First aid measures
4.1. Description of first aid measures

- General advice : Never give anything by mouth to an unconscious person.
- Inhalation : Move to fresh air. Consult a physician after significant exposure. Artificial respiration and/or oxygen may be necessary.
- Skin contact : Take off contaminated clothing and shoes immediately. Wash off immediately with soap and plenty of water. In the case of skin irritation or allergic reactions see a physician. Wash contaminated clothing before re-use.
- Eye contact : If easy to do, remove contact lens, if worn. Hold eye open and rinse slowly and gently with water for 15-20 minutes. Get medical attention immediately.
- Ingestion : Call a physician or poison control centre immediately. Do not induce vomiting without medical advice. If victim is conscious: Rinse mouth with water.

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

- Symptoms : No cases of human intoxication are known and the symptoms of experimental intoxication are not known.

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

- Treatment : Treat symptomatically.

SECTION 5: Firefighting measures
5.1. Extinguishing media

- Suitable extinguishing media : Water spray, Dry chemical, Foam, Carbon dioxide (CO₂)
- Extinguishing media which shall not be used for safety reasons : High volume water jet, (contamination risk)

5.2. Special hazards arising from the substance or mixture

- Specific hazards during firefighting : Hazardous decomposition products formed under fire conditions. Carbon dioxide (CO₂) Nitrogen oxides (NO_x) Hydrogen cyanide (hydrocyanic acid)



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Hydrogen chloride Hydrogen fluoride

5.3. Advice for firefighters

Special protective equipment for firefighters : Wear full protective clothing and self-contained breathing apparatus.

Further information : Prevent fire extinguishing water from contaminating surface water or the ground water system. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

: (on small fires) If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Cool containers/tanks with water spray.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Control access to area. Keep people away from and upwind of spill/leak. Ventilate spill area. Take precautionary measures against static discharges. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Refer to protective measures listed in sections 7 and 8.

6.2. Environmental precautions

Environmental precautions : Use appropriate container to avoid environmental contamination. Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained. If the spill area is porous, the contaminated material must be collected for subsequent treatment or disposal. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3. Methods and materials for containment and cleaning up

Methods for cleaning up : Clean-up methods - small spillage Soak up with inert absorbent material. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean-up methods - large spillage Prevent further leakage or spillage. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Large spills should be collected mechanically (remove by pumping) for disposal. Collect leaking liquid in sealable (metal/plastic) containers. Collect and contain contaminated absorbent and dike material for disposal.

Other information : Never return spills in original containers for re-use. Dispose of in accordance with local regulations.

6.4. Reference to other sections

For personal protection see section 8., For disposal instructions see section 13.



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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling : Use only according to our recommendations. Wear personal protective equipment. For personal protection see section 8. Use only clean equipment. Provide adequate ventilation. Do not breathe vapours or spray mist. When opening containers, avoid breathing vapours that may be emanating. Prepare the working solution as given on the label(s) and/or the user instructions. Use prepared working solution as soon as possible - Do not store. To avoid spills during handling keep bottle on a metal tray. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use. Never return unused material to storage receptacle. Avoid exceeding the given occupational exposure limits (see section 8).

Advice on protection against fire and explosion : Keep away from heat and sources of ignition. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in a place accessible by authorized persons only. Store in original container. Keep in properly labelled containers. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs.

Advice on common storage : No special restrictions on storage with other products.

Other data : Stable under recommended storage conditions.

7.3. Specific end use(s)

Plant protection products subject to Regulation (EC) No 1107/2009.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

If sub-section is empty then no values are applicable.

Components with workplace control parameters

| Type Form of exposure | Control parameters (Expressed as) | Update | Regulatory basis | Remarks |
|--------------------------|---|--------|------------------|---------|
|--------------------------|---|--------|------------------|---------|

2-Methylpropan-1-ol (CAS-No. 78-83-1)

| | | | | |
|------------------------------|---------------------------------|------|---|--|
| Time Weighted Average (TWA): | 150 mg/m ³ 50 ppm | 1995 | South Africa. Recommended Exposure Limits (RELs) Regulations for Hazardous Chemical Substances, Table 2 | |
| Short term exposure limit | 225 mg/m ³ 75 ppm | 1995 | South Africa. Recommended Exposure Limits (RELs) Regulations for Hazardous Chemical Substances, Table 2 | |

8.2. Exposure controls

Eye protection : Safety glasses with side-shields conforming to EN166

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- Hand protection** : Material: Nitrile rubber
Glove thickness: 0,4 - 0,7 mm
Glove length: Gauntlets of 35 cm long or longer.
Protection index: Class 6
Wearing time: > 480 min
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Gauntlets shorter than 35 cm long shall be worn under the combination sleeve. Gauntlets of 35 cm long or longer shall be worn over the combination sleeve. Before removing gloves clean them with soap and water.
- Skin and body protection** : Manufacturing and processing work: Full protective clothing Type 6 (EN 13034)
Mixer and loaders must wear: Full protective clothing Type 6 (EN 13034)
Rubber apron Nitrile rubber boots (EN 13832-3 / EN ISO 20345).
Spray application - outdoor: Tractor / sprayer with hood: No personal body protection normally required.
Tractor / sprayer without hood: Low application: Full protective clothing Type 6 (EN 13034) Nitrile rubber boots (EN 13832-3 / EN ISO 20345).
Middle-height application: Full protective clothing Type 4 (EN 14605) Nitrile rubber boots (EN 13832-3 / EN ISO 20345).
Backpack / knapsack sprayer: Full protective clothing Type 4 (EN 14605) Nitrile rubber boots (EN 13832-3 / EN ISO 20345).
When exceptional circumstances require an access to the treated area before the end of re-entry periods, wear full protective clothing Type 6 (EN 13034), nitrile rubber gloves class 3 (EN 374) and nitrile rubber boots (EN 13832-3 / EN ISO 20345).

To optimize the ergonomics it may be recommended to use cotton underwear when wearing some fabrics. Take advice from supplier.
Garment materials that are resistant to both water vapour and air will maximise wearing comfort. Materials should be robust to maintain the integrity and barrier in use.
The permeation resistance of the fabric must be verified independently of the « type » protection recommended, to ensure an appropriate performance level of the material adequate to the corresponding agent and type of exposure.
- Protective measures** : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. All chemical protective clothing should be visually inspected prior to use. Clothing and gloves should be replaced in case of chemical or physical damage or if contaminated. Only protected handlers may be in the area during application.
- Hygiene measures** : Handle in accordance with good industrial hygiene and safety practice. Regular cleaning of equipment, work area and clothing. Keep working clothes separately. Contaminated work clothing should not be allowed out of the workplace. Wash hands and face before breaks and immediately after handling the product. Remove clothing/PPE immediately if material gets inside. For

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environmental protection remove and wash all contaminated protective equipment before re-use. Dispose of rinse water in accordance with local and national regulations.

Respiratory protection : Manufacturing and processing work: Half mask with vapour filter A1 (EN 141)
 Mixer and loaders must wear: Half mask with vapour filter A1 (EN 141)
 Spray application - outdoor: Tractor / sprayer with hood: No personal respiratory protective equipment normally required.
 Tractor / sprayer without hood: Half mask with a particle filter FFP1 (EN149)
 Backpack / knapsack sprayer: Half mask with a particle filter FFP1 (EN149)
 Mechanical automatized spray application in closed tunnel: No personal respiratory protective equipment normally required.

SECTION 9: Physical and chemical properties
9.1. Information on basic physical and chemical properties

Form : liquid

Colour : light yellow

Odour : characteristic

Odour Threshold : not determined

pH : 6,83

Melting point/range : Not applicable

Boiling point/boiling range : Not available for this mixture.

Flash point : 67,5 °C

Self-Accelerating decomposition temperature (SADT) : no data available

Flammability (solid, gas) : no data available

Ignition temperature : no data available

Thermal decomposition : Not available for this mixture.

Oxidizing properties : The product is not oxidizing.

Explosive properties : Not explosive

Lower explosion limit/ Lower flammability limit : Not available for this mixture.

Upper explosion limit/ upper flammability limit : Not available for this mixture.

Vapour pressure : Not available for this mixture.

Density : 0,995 g/cm³

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| | |
|--|-----------------------------------|
| Relative density | : no data available |
| Bulk density | : no data available |
| Water solubility | : emulsifiable |
| Partition coefficient: n-octanol/water | : Not applicable |
| Auto-ignition temperature | : 320 °C |
| Solubility in other solvents | : no data available |
| Viscosity, dynamic | : no data available |
| Viscosity, kinematic | : 5,22 mm ² /s |
| Relative vapour density | : Not available for this mixture. |
| Evaporation rate | : Not available for this mixture. |

9.2. Other information

No other data to be specially mentioned.

SECTION 10: Stability and reactivity

- 10.1. Reactivity** : No hazards to be specially mentioned.
- 10.2. Chemical stability** : The product is chemically stable under recommended conditions of storage, use and temperature.
- 10.3. Possibility of hazardous reactions** : No dangerous reaction known under conditions of normal use. Polymerization will not occur. No decomposition if stored and applied as directed.
- 10.4. Conditions to avoid** : Protect from frost.
- 10.5. Incompatible materials** : No materials to be especially mentioned.
- 10.6. Hazardous decomposition products** : No materials to be especially mentioned.

SECTION 11: Toxicological information**11.1. Information on toxicological effects**

Acute oral toxicity

LD50 / Rat : > 2 000 mg/kg
Method: OECD Test Guideline 423
(Data on the product itself) Information source: Internal study report

Acute inhalation toxicity

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LC50 / 4 h Rat : > 5,05 mg/l
Method: OECD Test Guideline 403
(Data on the product itself) Information source: Internal study report

Acute dermal toxicity

LD50 / Rat : > 2 000 mg/kg
Method: OECD Test Guideline 402
(Data on the product itself) Information source: Internal study report

Skin irritation

Rat
Result: Irritating to skin.
Method: OECD Test Guideline 404
(Data on the product itself) Information source: Internal study report

Eye irritation

Rabbit
Result: Irritating to eyes.
Method: OECD Test Guideline 405
(Data on the product itself) Information source: Internal study report

Respiratory or skin sensitisation

Guinea pig
Result: Animal test did not cause sensitization by skin contact.
Method: OECD Test Guideline 406
(Data on the product itself) Information source: Internal study report

Repeated dose toxicity

- Proquinazid
Oral - feed Rat
NOAEL: 30 mg/kg
Method: OECD Test Guideline 408
Information source: Internal study report

Oral - feed Rat
NOAEL: 100 mg/kg
Method: OECD Test Guideline 408
Information source: Internal study report

Oral - feed Rat
Reduced body weight gain, Liver effects, Kidney effects, Thyroid effects, Abnormal serum enzyme levels,
Organ weight changes, altered hematology, Information source: Data provided by an external source.

Mutagenicity assessment

- Proquinazid

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Did not show mutagenic effects in animal experiments. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

- Tetraconazole
Did not show mutagenic effects in animal experiments.

Carcinogenicity assessment

- Proquinazid
Carcinogenic Category 3 Limited evidence of a carcinogenic effect. Animal experiments showed a statistically significant number of tumours.
- Tetraconazole
Did not show carcinogenic effects in animal experiments.

Toxicity to reproduction assessment

- Proquinazid
Animal testing did not show any effects on fertility.
- Tetraconazole
No toxicity to reproduction

Assessment teratogenicity

- Proquinazid
Did not show teratogenic effects in animal experiments.
- Tetraconazole
Did not show teratogenic effects in animal experiments.

STOT - single exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard

The mixture does not have properties associated with aspiration hazard potential.

SECTION 12: Ecological information**12.1. Toxicity****Toxicity to fish**

static test / LC50 / 96 h / *Oncorhynchus mykiss* (rainbow trout): 6,90 mg/l
Method: OECD Test Guideline 203
(Data on the product itself) Information source: Internal study report

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Toxicity to aquatic plants

ErC50 / 72 h / *Desmodesmus subspicatus* (green algae): 1,12 mg/l
Method: OECD Test Guideline 201
(Data on the product itself) Information source: Internal study report

Toxicity to aquatic invertebrates

EC50 / 48 h / *Daphnia magna* (Water flea): 1,70 mg/l
Method: OECD Test Guideline 202
(Data on the product itself) Information source: Internal study report

Toxicity to other organisms

LD50 / 48 h / *Apis mellifera* (bees): 0.509 µg/b
Method: OECD Test Guideline 213
Oral (Data on the product itself) Information source: Internal study report

LD50 / 48 h / *Apis mellifera* (bees): 0.394 µL/b
Method: OECD Test Guideline 214
Contact (Data on the product itself) Information source: Internal study report

Chronic toxicity to fish

- Proquinazid
Early Life-Stage / NOEC / *Oncorhynchus mykiss* (rainbow trout): 0,0030 mg/l
Method: OECD Test Guideline 210
Information source: Internal study report
- Tetraconazole
Early Life-Stage / NOEC / 28 d / *Pimephales promelas* (fathead minnow): 0,96 mg/l
Information source: Data provided by an external source.

Chronic toxicity to aquatic Invertebrates

- Proquinazid
NOEC / *Daphnia magna* (Water flea): 0,0018 mg/l
Method: OECD Test Guideline 202
Information source: Internal study report
- Tetraconazole
NOEC / 21 d / *Daphnia magna* (Water flea): 0,19 mg/l
Information source: Data provided by an external source.

12.2. Persistence and degradability

Biodegradability

Not readily biodegradable. Estimation based on data obtained on active ingredient.

12.3. Bioaccumulative potential

Bioaccumulation


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Does not bioaccumulate. Estimation based on data obtained on active ingredient.

12.4. Mobility in soil

Mobility in soil

Under actual use conditions the product has a low potential of mobility in soil.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT). / This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

12.6. Other adverse effects
Additional ecological information

No other ecological effects to be specially mentioned See product label for additional application instructions relating to environmental precautions.

SECTION 13: Disposal considerations
13.1. Waste treatment methods

- Product : In accordance with local and national regulations. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Do not contaminate ponds, waterways or ditches with chemical or used container.
- Contaminated packaging : Do not re-use empty containers.

SECTION 14: Transport information
ADR

- 14.1. UN number: 3082
- 14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Proquinazid, Tetraconazole)
- 14.3. Transport hazard class(es): 9
- 14.4. Packing group: III
- 14.5. Environmental hazards: Environmentally hazardous
- 14.6. Special precautions for user:
- Tunnel restriction code: (-)

IATA_C

- 14.1. UN number: 3082
- 14.2. UN proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Proquinazid, Tetraconazole)
- 14.3. Transport hazard class(es): 9
- 14.4. Packing group: III
- 14.5. Environmental hazards : Environmentally hazardous
- 14.6. Special precautions for user:

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DuPont internal recommendations and transport guidance: ICAO / IATA cargo aircraft only

IMDG

- | | |
|--|--|
| 14.1. UN number: | 3082 |
| 14.2. UN proper shipping name: | Environmentally hazardous substance, liquid, n.o.s. (Proquinazid, Tetraconazole) |
| 14.3. Transport hazard class(es): | 9 |
| 14.4. Packing group: | III |
| 14.5. Environmental hazards : | Marine pollutant |
| 14.6. Special precautions for user: | No special precautions required. |
| 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
Major Accident Hazard Legislation

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.
 Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1
 Quantity: 100 t, 200 t

Other regulations :

The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008.

SECTION 16: Other information
Text of R-phrases mentioned in Section 3

- | | |
|--------|---|
| R10 | Flammable. |
| R20/22 | Harmful by inhalation and if swallowed. |
| R37/38 | Irritating to respiratory system and skin. |
| R40 | Limited evidence of a carcinogenic effect. |
| R41 | Risk of serious damage to eyes. |
| R50 | Very toxic to aquatic organisms. |
| R51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| R53 | May cause long-term adverse effects in the aquatic environment. |
| R67 | Vapours may cause drowsiness and dizziness. |

Full text of H-Statements referred to under section 3.

- | | |
|------|------------------------------|
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H315 | Causes skin irritation. |


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| | |
|------|---|
| H318 | Causes serious eye damage. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H351 | Suspected of causing cancer. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |

Other information professional use

Abbreviations and acronyms

| | |
|---------|---|
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute toxicity estimate |
| CAS-No. | Chemical Abstracts Service number |
| CLP | Classification, Labelling and Packaging |
| EbC50 | Concentration at which 50% reduction of biomass is observed |
| EC50 | Median effective concentration |
| EN | European Norm |
| EPA | Environmental Protection Agency |
| ErC50 | Concentration at which a 50% inhibition of growth rate is observed |
| EyC50 | Concentration at which 50 % inhibition of yield is observed |
| IATA_C | International Air Transport Association (Cargo) |
| IBC | International Bulk Chemical Code |
| ICAO | International Civil Aviation Organization |
| ISO | International Standard Organization |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median Lethal Concentration |
| LD50 | Median Lethal Dose |
| LOEC | Lowest Observed Effect Concentration |
| LOEL | Lowest observed effect level |
| MARPOL | International Convention for the Prevention of Marine Pollution from Ships |
| n.o.s. | Not Otherwise Specified |
| NOAEC | No Observed Adverse Effect Concentration |
| NOAEL | No observed adverse effect level |
| NOEC | No Observed Effect Concentration |
| NOEL | No Observed Effect Level |
| OECD | Organisation for Economic Co-operation and Development |
| OPPTS | Office of Prevention, Pesticides and Toxic Substances |
| PBT | Persistent, Bioaccumulative and Toxic |
| STEL | Short term exposure limit |
| TWA | Time Weighted Average (TWA): |
| vPvB | very Persistent and very Bioaccumulative |

Further information

Before use read DuPont's safety information.
 Take notice of the directions of use on the label.
 (R) Registered trademark of E.I. du Pont de Nemours and Company

Note: The information on components provided in sections 11 and 12 of this safety data sheet may in some cases not align with a legally binding classification on the basis of technical progress and availability of new information.

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Significant change from previous version is denoted with a double bar.

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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.

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