



## DESTINY TURF

Version 1 / IRL  
102000037576

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Revision Date: 07.05.2019  
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### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

Trade name DESTINY TURF  
Product code (UVP) 86710501

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

Use Herbicide

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

Supplier Bayer CropScience Ltd  
Bayer Ltd  
The Atrium, Blackthorn Road  
Sandyford  
Dublin 18  
Ireland

Telephone +353-1-2999313

Responsible Department Email: ukcropsupport@bayer.com

#### 1.4 Emergency telephone no.

Emergency telephone no. 00800 1020 3333 (24 hr)

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### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

**Classification in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.**

Aspiration hazard: Category 1

H304 May be fatal if swallowed and enters airways.

Acute toxicity: Category 4

H302 Harmful if swallowed.

Skin irritation: Category 2

H315 Causes skin irritation.

Eye irritation: Category 2

H319 Causes serious eye irritation.

Specific target organ toxicity - single exposure: Category 3

H336 May cause drowsiness or dizziness.

Acute aquatic toxicity: Category 1

H400 Very toxic to aquatic life.

Chronic aquatic toxicity: Category 1

H410 Very toxic to aquatic life with long lasting effects.

#### 2.2 Label elements



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### Labelling in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Hazard label for supply/use required.

#### Hazardous components which must be listed on the label:

- 2,4-D 2-ethylhexyl ester
- Solvent Naphtha (petroleum), heavy aromatic, <1% Naphthalene
- Dicamba
- Amines, tallow alkyl, ethoxylated, 15 EO
- 2-Methylpropan-1-ol



**Signal word:** Danger

#### Hazard statements

|        |   |
|--------|---|
| H304   | May be fatal if swallowed and enters airways.                       |
| H302   | Harmful if swallowed.   |
| H319   | Causes serious eye irritation.                                      |
| H315   | Causes skin irritation.   |
| H336   | May cause drowsiness or dizziness.                                  |
| H410   | Very toxic to aquatic life with long lasting effects.               |
| EUH208 | Contains 2,4-D-2-ethylhexylester. May produce an allergic reaction. |

#### Precautionary statements

|                       |  |
|-----------------------|--|
| P270                  | Do not eat, drink or smoke when using this product.  |
| P273                  | Avoid release to the environment.  |
| P280                  | Wear protective gloves/ protective clothing/ eye protection/ face protection.  |
| P301 + P330<br>+ P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.   |
| P302 + P352           | IF ON SKIN: Wash with plenty of water.   |
| P305 + P351<br>+ P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P312                  | Call a POISON CENTER/doctor/physician if you feel unwell.  |
| P337 + P313           | If eye irritation persists: Get medical advice/ attention.   |
| P362                  | Take off contaminated clothing.  |
| P391                  | Collect spillage.  |
| P403 + P233           | Store in a well-ventilated place. Keep container tightly closed.   |
| P501                  | Dispose of contents/container in accordance with local regulation.   |

#### 2.3 Other hazards

No other hazards known.

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

#### Chemical nature

Emulsifiable concentrate (EC)  
2,4-D Ethyl-Hexyl Ester/Dicamba/Fluroxypyr-Meptyl 429.8:52.5:151.2 g/l

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Hazard statements according to Regulation (EC) No. 1272/2008

| Name  | CAS-No. /<br>EC-No. /<br>REACH Reg. No.          | Classification  | Conc. [%] |
|---|--|---|-----------|
|   |  | REGULATION (EC) No<br>1272/2008   |           |
| 2,4-D 2-ethylhexyl ester  | 1928-43-4<br>217-673-3                           | Acute Tox. 4, H302<br>Skin Sens. 1, H317<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410        | 30 – 60   |
| Solvent Naphtha<br>(petroleum), heavy<br>aromatic, <1%<br>Naphthalene | 64742-94-5<br>265-198-5<br>01-2119463583-34-xxxx | Asp. Tox. 1, H304<br>STOT SE 3, H336<br>Aquatic Chronic 2, H411                                     | 10 – 30   |
| Fluroxypyr-meptyl   | 81406-37-3<br>279-752-9                          | Aquatic Chronic 1, H410<br>Aquatic Acute 1, H400  | 10 – 30   |
| Dicamba   | 1918-00-9<br>217-635-6                           | Eye Dam. 1, H318<br>Acute Tox. 4, H302<br>Acute Tox. 4, H332<br>Aquatic Chronic 3, H412             | 1 – 5     |
| Amines, tallow alkyl,<br>ethoxylated, 15 EO                           | 61791-26-2<br>500-153-8                          | Acute Tox. 4, H302<br>Acute Tox. 2, H330<br>Eye Dam. 1, H318<br>Aquatic Chronic 2, H411             | 1 – 5     |
| 2-Methylpropan-1-ol   | 78-83-1<br>201-148-0<br>01-2119484609-23-XXXX    | Flam. Liq. 3, H226<br>STOT SE 3, H335<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>STOT SE 3, H336 | 1 – 5     |

**Further information**

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**

Move out of dangerous area. Place and transport victim in stable position (lying sideways). Remove contaminated clothing immediately and dispose of safely.

**Inhalation**

Move to fresh air. Keep patient warm and at rest. Call a physician or poison control center immediately.

**Skin contact**

Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

**Eye contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation develops and persists.



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|   |   |
|---|---|
| <b>Ingestion</b>  | Do NOT induce vomiting. Risk of product entering the lungs on vomiting after ingestion. Call a physician or poison control center immediately. Rinse mouth.   |
| <b>4.2 Most important symptoms and effects, both acute and delayed</b>                |   |
| <b>Symptoms</b>   | Cough, Irritation, Redness<br><br>Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea., Aspiration may cause pulmonary oedema and pneumonitis.  |
| <b>4.3 Indication of any immediate medical attention and special treatment needed</b> |   |
| <b>Risks</b>  | Contains hydrocarbon solvents. May pose an aspiration pneumonia hazard.   |
| <b>Treatment</b>  | Treat symptomatically. Gastric lavage is not normally required. However, if a significant amount (more than a mouthful) has been ingested, administer activated charcoal and sodium sulphate. In case of aspiration intubation and bronchial lavage should be considered. Monitor: kidney, liver and pancreas function. There is no specific antidote. Contraindication: derivatives of adrenaline. |

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## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

|                   |  |
|-------------------|--|
| <b>Suitable</b>   | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| <b>Unsuitable</b> | High volume water jet  |

**5.2 Special hazards arising from the substance or mixture** Dangerous gases are evolved in the event of a fire.

### 5.3 Advice for firefighters

|  |  |
|--|--|
| <b>Special protective equipment for firefighters</b> | In the event of fire and/or explosion do not breathe fumes. In the event of fire, wear self-contained breathing apparatus. |
| <b>Further information</b>                           | Contain the spread of the fire-fighting media. Do not allow run-off from fire fighting to enter drains or water courses.   |

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

|                                      |   |
|--------------------------------------|---|
| <b>Precautions</b>                   | Avoid contact with spilled product or contaminated surfaces. Use personal protective equipment. |
| <b>6.2 Environmental precautions</b> | Do not allow to get into surface water, drains and ground water.                                |



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**6.3 Methods and materials for containment and cleaning up**

**Methods for cleaning up** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Clean contaminated floors and objects thoroughly, observing environmental regulations. Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections** Information regarding safe handling, see section 7.  
Information regarding personal protective equipment, see section 8.  
Information regarding waste disposal, see section 13.

**SECTION 7: HANDLING AND STORAGE**

**7.1 Precautions for safe handling**

**Advice on safe handling** Use only in area provided with appropriate exhaust ventilation.

**Hygiene measures** Avoid contact with skin, eyes and clothing. Keep working clothes separately. Wash hands before breaks and immediately after handling the product. Wash hands immediately after work, if necessary take a shower. Remove soiled clothing immediately and clean thoroughly before using again. Garments that cannot be cleaned must be destroyed (burnt).

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

**Requirements for storage areas and containers** Keep containers tightly closed in a cool, well-ventilated place. Store in original container. Store in a place accessible by authorized persons only. Keep away from direct sunlight. Protect from freezing.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters**

| Components          | CAS-No. | Control parameters                   | Update | Basis    |
|---------------------|---------|--------------------------------------|--------|----------|
| 2-Methylpropan-1-ol | 78-83-1 | 225 mg/m <sup>3</sup> /75 ppm (STEL) | 2011   | ELV (IE) |
| 2-Methylpropan-1-ol | 78-83-1 | 150 mg/m <sup>3</sup> /50 ppm (TWA)  | 2011   | ELV (IE) |

**8.2 Exposure controls**

**Personal protective equipment**

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

**Respiratory protection** Wear respirator with an organic vapours and gas filter mask (protection factor 10) conforming to EN140 type A or equivalent. Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.

**Hand protection** Please observe the instructions regarding permeability and

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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.

Wash gloves when contaminated. Dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and always before eating, drinking, smoking or using the toilet.

|                      |  |
|----------------------|--|
| Material             | Nitrile rubber                           |
| Rate of permeability | > 480 min                                |
| Glove thickness      | > 0.4 mm                                 |
| Protective index     | Class 6                                  |
| Directive            | Protective gloves complying with EN 374. |

**Eye protection**

Wear goggles (conforming to EN166, Field of Use = 5 or equivalent).

**Skin and body protection**

Wear standard coveralls and Category 3 Type 6 suit. If there is a risk of significant exposure, consider a higher protective type suit.

Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.

If chemical protection suit is splashed, sprayed or significantly contaminated, decontaminate as far as possible, then carefully remove and dispose of as advised by manufacturer.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

|  |  |
|--|--|
| Form                                   | Liquid   |
| Colour                                 | red brown  |
| Flash point                            | 62 °C  |
| Density                                | ca. 1.07 g/cm <sup>3</sup> ( 20 °C)  |
| Water solubility                       | miscible   |
| Partition coefficient: n-octanol/water | 2,4-D-2-ethylhexylester: log Pow: 5.78<br>Fluroxypyr-meptyl: log Pow: 5.04 |

**9.2 Other information**

Further safety related physical-chemical data are not known.

**SECTION 10: STABILITY AND REACTIVITY****10.1 Reactivity**

**Thermal decomposition** Stable under normal conditions.

**10.2 Chemical stability** Stable under recommended storage conditions.

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|  |  |
|--|--|
| <b>10.3 Possibility of hazardous reactions</b> | No hazardous reactions when stored and handled according to prescribed instructions. |
| <b>10.4 Conditions to avoid</b>                | freezing<br>Extremes of temperature and direct sunlight.                             |
| <b>10.5 Incompatible materials</b>             | Store only in the original container.  |
| <b>10.6 Hazardous decomposition products</b>   | No decomposition products expected under normal conditions of use.                   |

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**SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects**

|  |  |
|--|--|
| <b>Acute oral toxicity</b>               | ATE (Mix) 1,427.34 mg/kg<br>Calculation method   |
| <b>Acute inhalation toxicity</b>         | ATE (Mix) 10.0 mg/l<br>Determined in the form of a respirable aerosol.<br>Calculation method |
| <b>Acute dermal toxicity</b>             | No data available  |
| <b>Skin corrosion/irritation</b>         | Irritating to skin.  |
| <b>Serious eye damage/eye irritation</b> | Irritating to eyes.  |
| <b>Respiratory or skin sensitisation</b> | Skin: Non-sensitizing. (Guinea pig)  |

**Assessment STOT Specific target organ toxicity – single exposure**

2,4-D-2-ethylhexylester: Based on available data, the classification criteria are not met.  
Fluroxypyr-meptyl: This information is not available.

**Assessment STOT Specific target organ toxicity – repeated exposure**

2,4-D-2-ethylhexylester did not cause specific target organ toxicity in experimental animal studies.  
Fluroxypyr-meptyl did not cause specific target organ toxicity in experimental animal studies.

**Assessment mutagenicity**

2,4-D-2-ethylhexylester was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.  
Fluroxypyr-meptyl was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

**Assessment carcinogenicity**

2,4-D-2-ethylhexylester was not carcinogenic in lifetime feeding studies in rats and mice.  
Fluroxypyr-meptyl was not carcinogenic in lifetime feeding studies in rats and mice.

**Assessment toxicity to reproduction**

2,4-D-2-ethylhexylester caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals.  
Fluroxypyr-meptyl did not cause reproductive toxicity in a two-generation study in rats.

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2,4-D-2-ethylhexylester caused developmental toxicity only at dose levels toxic to the dams.  
Fluroxypyr-meptyl did not cause developmental toxicity in rats and rabbits.

**Aspiration hazard**

May be fatal if swallowed and enters airways.

**Further information**

May cause drowsiness or dizziness.

**SECTION 12: ECOLOGICAL INFORMATION****12.1 Toxicity**

|  |  |
|--|--|
| <b>Toxicity to fish</b>                  | LC50 (Fish) 4.8 mg/l<br>Exposure time: 96 h                        |
| <b>Toxicity to aquatic invertebrates</b> | LC50 (Daphnia magna (Water flea)) 33.6 mg/l<br>Exposure time: 48 h |
| <b>Toxicity to aquatic plants</b>        | EC50 (Algae) 2.1 mg/l<br>Exposure time: 72 h                       |

**12.2 Persistence and degradability**

|                         |  |
|-------------------------|--|
| <b>Biodegradability</b> | 2,4-D-2-ethylhexylester:<br>Not rapidly biodegradable<br>Fluroxypyr-meptyl: 32 %, Exposure time: 28 d<br>Not rapidly biodegradable |
| <b>Koc</b>              | 2,4-D-2-ethylhexylester: Koc: 33000<br>Fluroxypyr-meptyl: Koc: 6200 - 43000  |

**12.3 Bioaccumulative potential**

|                        |   |
|------------------------|---|
| <b>Bioaccumulation</b> | 2,4-D-2-ethylhexylester: Bioconcentration factor (BCF) 10<br>Does not bioaccumulate.<br>Fluroxypyr-meptyl: Bioconcentration factor (BCF) 26 |
|------------------------|---|

**12.4 Mobility in soil**

|                         |  |
|-------------------------|--|
| <b>Mobility in soil</b> | 2,4-D-2-ethylhexylester: Slightly mobile in soils<br>Fluroxypyr-meptyl: Immobile in soil |
|-------------------------|--|

**12.5 Results of PBT and vPvB assessment**

|                                |  |
|--------------------------------|--|
| <b>PBT and vPvB assessment</b> | 2,4-D-2-ethylhexylester: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).<br>Fluroxypyr-meptyl: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB). |
|--------------------------------|--|

**12.6 Other adverse effects**

|  |                                   |
|--|-----------------------------------|
| <b>Additional ecological information</b> | No other effects to be mentioned. |
|--|-----------------------------------|



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|   |   |
|---|---|
| <b>Product</b>                          | In accordance with current regulations and, if necessary, after consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or incineration plant. |
| <b>Contaminated packaging</b>           | Not completely emptied packagings should be disposed of as hazardous waste.   |
| <b>Waste key for the unused product</b> | <b>02 01 08*</b> agrochemical waste containing hazardous substances   |

**SECTION 14: TRANSPORT INFORMATION****ADR/RID/ADN**

|                                 |   |
|---------------------------------|---|
| 14.1 UN number                  | <b>3082</b>   |
| 14.2 Proper shipping name       | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(2,4-D ETHYLHEXYL ESTER, HYDROCARBONS, C10, AROMATICS, <1% NAPHTHALENE SOLUTION) |
| 14.3 Transport hazard class(es) | 9   |
| 14.4 Packaging Group            | III   |
| 14.5 Environm. Hazardous Mark   | YES   |
| Hazard no.                      | 90  |

This classification is in principle not valid for carriage by tank vessel on inland waterways. Please refer to the manufacturer for further information.

**IMDG**

|                                 |   |
|---------------------------------|---|
| 14.1 UN number                  | <b>3082</b>   |
| 14.2 Proper shipping name       | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(2,4-D ETHYLHEXYL ESTER, HYDROCARBONS, C10, AROMATICS, <1% NAPHTHALENE SOLUTION) |
| 14.3 Transport hazard class(es) | 9   |
| 14.4 Packaging Group            | III   |
| 14.5 Marine pollutant           | YES   |

**IATA**

|                                 |  |
|---------------------------------|--|
| 14.1 UN number                  | <b>3082</b>  |
| 14.2 Proper shipping name       | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(2,4-D ETHYLHEXYL ESTER, HYDROCARBONS, C10, AROMATICS, <1% NAPHTHALENE SOLUTION ) |
| 14.3 Transport hazard class(es) | 9  |
| 14.4 Packaging Group            | III  |
| 14.5 Environm. Hazardous Mark   | YES  |

**14.6 Special precautions for user**



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See sections 6 to 8 of this Safety Data Sheet.

### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

No transport in bulk according to the IBC Code.

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## SECTION 15: REGULATORY INFORMATION

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

#### Republic of Ireland Regulations

This material may be subject to some or all of the following regulations (and any subsequent amendments). Users must ensure that any uses and restrictions as indicated on the label and/or leaflet are followed.

#### Supply and Use

European Communities (Prohibition of Certain Active Substances in Plant Protection Products) Regulations 1981 (SI No 320/1981)  
European Communities (Authorization, Placing on the Market, Use and Control of Plant Protection Products) Regulations 2003 (SI No 83/2003)  
European Communities (Classification, Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations 2001 (SI No 624/2001)  
2010 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations, 2001 (SI No 619/2001)

#### Waste Treatment

Landfill Directive  
Regulation on Substances That Deplete the Ozone Layer 1994 (EEC/3093/94)

#### Further information

WHO-classification: II (Moderately hazardous)

### 15.2 Chemical safety assessment

A chemical safety assessment is not required.

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## SECTION 16: OTHER INFORMATION

### Text of the hazard statements mentioned in Section 3

|      |   |
|------|---|
| H226 | Flammable liquid and vapour.                          |
| 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.                            |
| H330 | Fatal if inhaled.                                     |
| H332 | Harmful if inhaled.                                   |
| H335 | May cause respiratory irritation.                     |
| H336 | May cause drowsiness or dizziness.                    |
| H400 | Very toxic to aquatic life.                           |
| H410 | Very toxic to aquatic life with long lasting effects. |

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H411 Toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.

This data sheet has been generated according to the safety data sheet supplied by the manufacturer of the product.

**Abbreviations and acronyms**

|           |  |
|-----------|--|
| ADN       | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways                |
| ADR       | European Agreement concerning the International Carriage of Dangerous Goods by Road                            |
| ATE       | Acute toxicity estimate  |
| CAS-Nr.   | Chemical Abstracts Service number  |
| Conc.     | Concentration  |
| EC-No.    | European community number  |
| ECx       | Effective concentration to x %   |
| EINECS    | European inventory of existing commercial substances   |
| ELINCS    | European list of notified chemical substances  |
| ELV       | Exposure Limit Value   |
| EN        | European Standard  |
| EU        | European Union   |
| IATA      | International Air Transport Association  |
| IBC       | International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code) |
| ICx       | Inhibition concentration to x %  |
| IMDG      | International Maritime Dangerous Goods   |
| LCx       | Lethal concentration to x %  |
| LDx       | Lethal dose to x %   |
| LOEC/LOEL | Lowest observed effect concentration/level   |
| MARPOL    | MARPOL: International Convention for the prevention of marine pollution from ships                             |
| N.O.S.    | Not otherwise specified  |
| NOEC/NOEL | No observed effect concentration/level   |
| OECD      | Organization for Economic Co-operation and Development   |
| RID       | Regulations concerning the International Carriage of Dangerous Goods by Rail                                   |
| SI        | Statutory Instrument   |
| TWA       | Time weighted average  |
| UN        | United Nations   |
| WHO       | World health organisation  |

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