

## DPX-R7U12 180 g/LOD

Version 1.0

Revision Date 03.01.2018

Ref. 130000121320

This safety data sheet is based on the structure provided by the standards of the United Nations Globally Harmonized System of Classification and Labelling of Chemicals (UN GHS), and includes the classification and identification information under internationally recognized rules. Available exposure limits may not meet regulatory standards for all countries.

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name : DPX-R7U12 180 g/LOD  
Synonyms : B13130587  
DPX-R7U12 180 OD

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

Use of the Substance/Mixture : Herbicide

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

Company : FMC International Switzerland Sàrl  
Chemin du Pavillon 2  
1218 Le Grand-Saconnex  
Switzerland

E-mail address : SDS.Ronland@fmc.com

#### 1.4. Emergency telephone number

##### Medical emergencies:

Austria: +43 1 406 43 43

Belgium: +32 70 245 245

Bulgaria: +359 2 9154 409

Cyprus: 1401

Czech Republic: +420 224 919 293

+420 224 915 402

Denmark: +45 82 12 12 12

France: +33 (0) 1 45 42 59 59

Finland: +358 9 471 977

Greece: 30 210 77 93 777

Hungary: +36 80 20 11 99

Ireland (Republic): +352 1 809 2166

Italy: +39 02 6610 1029

Lithuania: +370 523 62052

+370 687 53378

Luxembourg: +352 8002 5500

Netherlands: +31 30 274 88 88

Norway: +47 22 591300

Poland: +48 22 619 66 54

+48 22 619 08 97

Portugal: 808 250 143 (in Portugal only)

+351 21 330 3284

Romania: +40 21318 3606

Slovakia: +421 2 54 77 4 166

Slovenia: +386 41 650 500

Spain: +34 91 562 04 20

Sweden: +46 08-331231

112

Switzerland: 145

United Kingdom: 0870 600 6266 (in the UK only)

U.S.A. & Canada: +1 800 / 331-3148 (ProPharma)

All other countries: +1 651 / 632-6793 (ProPharma - Collect)

##### For fire, leak, spill or other accident emergencies:

U.S.A.: +1 800 / 424 9300 (CHEMTREC)

All other countries: +1 703 / 527 3887 (CHEMTREC - Collect)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

Acute aquatic toxicity, Category 1 H400: Very toxic to aquatic life.

Chronic aquatic toxicity, H410: Very toxic to aquatic life with long lasting effects.

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Category 1

**2.2. Label elements**



**Warning**

H317  
H410

May cause an allergic skin reaction.  
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.,

P261  
P280  
P333 + P313  
P363  
P391  
P501

Avoid breathing vapours or spray.  
Wear protective gloves.  
If skin irritation or rash occurs: Get medical advice/ attention.  
Wash contaminated clothing before reuse.  
Collect spillage.  
Dispose of contents to an approved incineration plant in accordance with local, regional and national legislations.  
Dispose of container to a waste disposal plant in accordance with local, regional and national legislations.

P501

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**

Registration number	Classification according to Regulation (EU) 1272/2008 (CLP)	Concentration (% w/w)
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Fluroxypyr-meptyl (CAS-No.81406-37-3) (EC-No.279-752-9)

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**(M-Factor : 1[Acute] 1[Chronic])**

	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	22,98 %
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**Thifensulfuron methyl (CAS-No.79277-27-3)**

	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	3,03 %
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The above products are compliant to REACH registration obligations; Registration number(s) may not be provided because substance(s) are exempted, not yet registered under REACH or are registered under another regulatory process (biocide uses, plant protection products), etc.

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. If eye irritation persists, consult a specialist.
- Ingestion : Call a physician or poison control centre immediately. Do not induce vomiting without medical advice. If victim is conscious: Rinse mouth with water. Drink 1 or 2 glasses of 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)

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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 (CO<sub>2</sub>) Nitrogen oxides (NO<sub>x</sub>)

### 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. Avoid dust formation. Avoid breathing dust. 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.

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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.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Advice on safe handling : Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.

Use only according to our recommendations. Use only clean equipment. Avoid contact with skin, eyes and clothing. Do not breathe dust or spray mist. Wear personal protective equipment. For personal protection see section 8. 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. Provide appropriate exhaust ventilation at places where dust is formed.

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.

### 8.2. Exposure controls

Engineering measures : Ensure adequate ventilation, especially in confined areas. Use sufficient ventilation to keep employee exposure below recommended limits.

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  
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 must be inspected prior to use. 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: Full protective clothing Type 4 (EN 14605) Nitrile rubber boots (EN 13832-3 / EN ISO 20345).  
  
When exceptional circumstances would 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 2 (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 environmental protection remove and wash all contaminated protective equipment before re-use. Dispose of rinse water in accordance with local and

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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 P1 (EN 143).
- 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 grey
- Odour : solvent-like
- pH : 4,0 - 5,0
- Flash point : 96 °C
- Flammability (solid, gas) : The product is not flammable.
- 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.
- Relative density : Not available for this mixture.
- Bulk density : 0,89 - 1,09 g/cm<sup>3</sup>
- Water solubility : dispersible

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Partition coefficient: n- octanol/water : no data available

Viscosity, dynamic : 505,2 mPa.s at 20 °C

Relative vapour density : Not available for this mixture.

Evaporation rate : Not available for this mixture.

### 9.2. Other information

Phys.-chem./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** : To avoid thermal decomposition, do not overheat. Do not freeze.

**10.5. Incompatible materials** : No materials to be especially mentioned.

**10.6. Hazardous decomposition products** : No hazardous decomposition products are known.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute oral toxicity

LD50 / Rat : > 5 000 mg/kg  
Method: OECD Test Guideline 425  
(Data on the product itself) Information source: Internal study report

#### Acute inhalation toxicity

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

#### Acute dermal toxicity

LD50 / Rat : > 5 000 mg/kg  
Method: OECD Test Guideline 402  
(Data on the product itself) Information source: Internal study report

#### Skin irritation

Rabbit  
Result: No skin irritation



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Method: OECD Test Guideline 404

(Data on the product itself) Information source: Internal study report

### Eye irritation

Rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

(Data on the product itself) Information source: Internal study report

### Sensitisation

mice Local lymph node test

Result: May cause sensitisation by skin contact.

Method: OECD Test Guideline 429

(Data on the product itself) Information source: Internal study report

### Repeated dose toxicity

- Thifensulfuron methyl

Oral Rat

Exposure time: 28 d

NOAEL: 529 mg/kg

No adverse effect has been observed in chronic toxicity tests.

### Mutagenicity assessment

- Fluroxypyr-meptyl

Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

- Thifensulfuron methyl

Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Animal testing did not show any mutagenic effects.

### Carcinogenicity assessment

- Fluroxypyr-meptyl

Not classifiable as a human carcinogen. Information given is based on data obtained from similar substances.

- Thifensulfuron methyl

Animal testing did not show any carcinogenic effects.

### Toxicity to reproduction assessment

- Fluroxypyr-meptyl

No toxicity to reproduction

- Thifensulfuron methyl

No toxicity to reproduction Animal testing showed no reproductive toxicity.

### Assessment teratogenicity

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- Fluroxypyr-meptyl  
Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.
- Thifensulfuron methyl  
Did not show teratogenic effects in animal experiments. Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

### 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): > 1,2 mg/l  
Method: OECD Test Guideline 203  
(Data on the product itself) Information source: Internal study report

#### Toxicity to aquatic plants

ErC50 / 7 d / *Lemna gibba* G3 (gibbous duckweed): 0,046 mg/l  
Method: OECD Test Guideline 221  
(Data on the product itself) Information source: Internal study report

NOEC / 21 d / *Lemna gibba* G3 (gibbous duckweed): 0,025 mg/l  
Method: OECD Test Guideline 221  
(Data on the product itself) Information source: Internal study report

#### Toxicity to aquatic invertebrates

static test / EC50 / 48 h / *Daphnia magna* (Water flea): > 1,2 mg/l  
Method: OECD Test Guideline 202  
(Data on the product itself) Information source: Internal study report

#### Toxicity to other organisms

LD50 / 72 h / *Apis mellifera* (bees): >216 µg/b  
Method: OECD Test Guideline 213  
(Data on the product itself) Information source: Internal study report

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LD50 / 48 h / Apis mellifera (bees): >200 µg/b  
Method: OECD Test Guideline 214  
(Data on the product itself) Information source: Internal study report

### Chronic toxicity to fish

- Fluroxypyr-meptyl  
NOEC / Oncorhynchus mykiss (rainbow trout): 0,32 mg/l  
Information source: Data provided by an external source.
  - Thifensulfuron methyl  
NOEC / 62 d / Oncorhynchus mykiss (rainbow trout): 10,6 mg/l  
Method: OECD Test Guideline 210  
Information source: Internal study report
- NOEC / 21 d / Oncorhynchus mykiss (rainbow trout): 250 mg/l  
Method: OECD Test Guideline 204  
Information source: Internal study report

### Chronic toxicity to aquatic Invertebrates

- Thifensulfuron methyl  
EC50 / 21 d / Daphnia magna (Water flea): > 340 mg/l  
Method: OECD Test Guideline 202  
Information source: Internal study report

## 12.2. Persistence and degradability

### Biodegradability

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

## 12.3. Bioaccumulative potential

### Bioaccumulation

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

## 12.4. Mobility in soil

### Mobility in soil

The product is not expected to be mobile in soils.

## 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

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No other ecological effects to be specially mentioned

**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.
- European Waste Catalogue number : 020108: agrochemical waste containing dangerous substances

**SECTION 14: Transport information**

**ADR**

- 14.1. UN number: 3082
- 14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluroxypyr meptyl, Thifensulfuron-methyl)
- 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: (E)

**IATA\_C**

- 14.1. UN number: 3082
- 14.2. UN proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Fluroxypyr meptyl, Thifensulfuron-methyl)
- 14.3. Transport hazard class(es): 9
- 14.4. Packing group: III
- 14.5. Environmental hazards : For further information see Section 12.
- 14.6. Special precautions for user:  
FMC 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. (Fluroxypyr meptyl, Thifensulfuron-methyl)
- 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

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Not applicable

### SECTION 15: Regulatory information

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

Other regulations : The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008. Take note of Dir 94/33/EC on the protection of young people at work. Take note of Dir 92/85/EEC on the safety and health at work of pregnant workers. Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work. Take note of Directive 96/82/EC on the control of major-accident hazards involving dangerous substances. Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values. This product is in full compliance according to REACH regulation 1907/2006/EC.

#### 15.2. Chemical safety assessment

A Chemical Safety Assessment is not required for this/these product(s).  
The mixture is evaluated within the frame of the provisions of Regulation (EC) No. 1107/2009.

### SECTION 16: Other information

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

H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.

#### 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

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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

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.