VENZAR® 500SC

Version 2.1 (replaces: Version 2.0)
Revision Date 14.02.2020 Ref. 130000013306

This Safety Data Sheet adheres to the standards and regulatory requirements of Great Britain 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 : VENZAR® 500SC

Synonyms : B12782311
DPX-B0634 500 SC

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: CHEMINOVA A/S, a subsidiary of FMC Corporation
Thyborønvej 78
DK-7673 Harboøre
Denmark

Telephone: +45 9690 9690

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

1.4. Emergency telephone number (+45) 97 83 53 53 (24 h; for emergencies only)

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: 800 250 250 (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 08-331231112
Switzerland: 145
United Kingdom: 0870 600 6266 (in the UK only)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Carcinogenicity, Category 2	H351: Suspected of causing cancer.
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

Warning

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.
P281	Use personal protective equipment as required.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.
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)
Lenacil (CAS-No.2164-08-1) (EC-No.218-499-0) (M-Factor : 10[Acute] 10[Chronic] 10[Acute] 10[Chronic])		
	Carc. 2; H351 Aquatic Acute 1; H400	43.86 %

	Aquatic Chronic 1; H410	

Ethane-1,2-diol (CAS-No.107-21-1) (EC-No.203-473-3)

01-2119456816-28	Acute Tox. 4; H302 STOT RE 2; H373	>= 5 - < 10 %

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. For specialist advice physicians should contact the National Poisons Information Service: Tel. 111 for England and Wales and Tel. 08454 24 24 24 for Scotland.

Inhalation : Move to fresh air. Oxygen or artificial respiration if needed. Consult a physician after significant exposure.

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 : Hold eye open and rinse slowly and gently with water for 15-20 minutes. If eye irritation persists, consult a specialist.

Ingestion : Obtain medical attention. 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, Carbon dioxide (CO_2)

Extinguishing media which : High volume water jet, (contamination risk)

shall not be used for safety reasons

5.2. Special hazards arising from the substance or mixture

Specific hazards during firefighting	:	Hazardous decomposition products formed under fire conditions. Carbon dioxide (CO_2) nitrogen oxides

5.3. Advice for firefighters

Special protective equipment for firefighters	:	Wear self-contained breathing apparatus and protective suit.
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	:	Prevent further leakage or spillage if safe to do so. Use appropriate container to avoid environmental contamination. 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 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 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.
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	:	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.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	:	Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a place accessible by authorized persons only. 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. Keep away from: Bases
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

Ethane-1,2-diol (CAS-No. 107-21-1)

Time Weighted Average (TWA): Vapor.	52 mg/m3 20 ppm	2007	UK. EH40 Workplace Exposure Limits (WELs)	
Short term exposure limit Vapor.	104 mg/m3 40 ppm	2007	UK. EH40 Workplace Exposure Limits (WELs)	
Skin designation: Vapor.		2007	UK. EH40 Workplace Exposure Limits (WELs)	Can be absorbed through skin.
Skin designation: Particulate.		2007	UK. EH40 Workplace Exposure Limits (WELs)	Can be absorbed through skin.
Time Weighted Average (TWA): Particulate.	10 mg/m3	2007	UK. EH40 Workplace Exposure Limits (WELs)	
Skin designation:		12 2009	EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU	Can be absorbed through skin.
Time Weighted Average (TWA):	52 mg/m3 20 ppm	12 2009	EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU	Indicative
Short term exposure limit	104 mg/m3 40 ppm	12 2009	EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU	Indicative

Derived No Effect Level (DNEL)

- Ethane-1,2-diol : Type of Application (Use): Workers
  Exposure routes: Inhalation
  Health Effect: Systemic effects, Long-term exposure
  Value: 35 mg/m^3

  : Type of Application (Use): Workers
  Exposure routes: Skin contact
  Health Effect: Systemic effects, Long-term exposure
  Value: 106 mg/kg body weight (bw) /day

Predicted No Effect Concentration (PNEC)

- Ethane-1,2-diol : Value: 10 mg/l
  Compartment: Fresh water

  : Value: 1 mg/l
  Compartment: Marine water

  : Value: 10 mg/l
  Compartment: Water
  Remarks: Intermittent use/release

  : Value: 20.9 mg/kg dry weight (d.w.)
  Compartment: Fresh water sediment

  : Value: 1 mg/kg dry weight (d.w.)

Compartment: Marine sediment

: Value: 1.53 mg/kg dry weight (d.w.)
Compartment: Soil

: Value: 199.5 mg/l
Compartment: Sewage treatment plants

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

Hand protection : Material: Nitrile rubber
Glove thickness: 0.3 mm
Glove length: Standard glove type.
Protection index: Class 6
Wearing time: 8 h
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. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case. The exact break through time can be obtained from the protective glove producer and this has to be observed. 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. 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) 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: 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 ergonomy it may be recommended to use cotton underwear when wearing some fabrics. Take advice from supplier.
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.
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.

Protective measures	:	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.
Hygiene measures	:	Handle in accordance with good industrial hygiene and safety practice. Regular cleaning of equipment, work area and clothing. Contaminated work clothing should not be allowed out of the workplace. 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. For 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 a particle filter FFP1 (EN149) Mixer and loaders must wear: Half mask with a particle filter FFP1 (EN149) 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).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	: liquid
Colour	: white
Odour	: odourless
Odour Threshold	: not determined
pH	: 6.0 at 10 g/l (25 °C)
Melting point/range	: Not applicable

Boiling point/boiling range	: 98 °C
Flash point	: > 98 °C
Thermal decomposition	: Not available for this mixture.
Auto-ignition temperature	: 530 °C
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	: 1.13 at 20 °C
Water solubility	: emulsifiable
Partition coefficient: n-octanol/water	: Not applicable
Viscosity, dynamic	: Not applicable
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. No decomposition if stored and applied as directed.
10.4. Conditions to avoid	: Protect from frost. To avoid thermal decomposition, do not overheat.
10.5. Incompatible materials	: Incompatible with bases.

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

- Ethane-1,2-diol
  Acute toxicity estimate / 4 h Not tested on animals : > 5 mg/l
  Information source: Data provided by an external source.

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

Rabbit
Result: No skin irritation
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

Guinea pig Maximisation Test
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

- Lenacil
  Ingestion Not tested on animals

Exposure time: 90 d
NOAEL: > 100 mg/kg
No toxicologically significant effects were found., Information source: Data provided by an external source.

- Ethane-1,2-diol
  Oral Rat
  Kidney damage, Information source: Data provided by an external source.

Mutagenicity assessment

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

- Ethane-1,2-diol
  Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Carcinogenicity assessment

- Lenacil
  Suspected human carcinogens

- Ethane-1,2-diol
  Not classifiable as a human carcinogen. Animal testing did not show any carcinogenic effects.

Toxicity to reproduction assessment

- Ethane-1,2-diol
  No toxicity to reproduction No effects on or via lactation Animal testing showed no reproductive toxicity.

Assessment teratogenicity

- Lenacil
  Animal testing showed no developmental toxicity.

- Ethane-1,2-diol
  Evidence suggests the substance is not a developmental toxin in animals.

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

- Lenacil
  static test / LC50 / 96 h / Oncorhynchus mykiss (rainbow trout): > 2.0 mg/l
  Method: OECD Test Guideline 203
  Information source: Internal study report

Toxicity to aquatic plants

static test / ErC50 / 72 h / Pseudokirchneriella subcapitata (green algae): 0.00918 mg/l
Method: OECD Test Guideline 201
(Data on the product itself) Information source: Internal study report

semi-static test / ErC50 / 7 d / Lemna gibba (duckweed): 0.0200 mg/l
Method: OECD Test Guideline 221
(Data on the product itself) Information source: Internal study report

Toxicity to aquatic invertebrates

- Lenacil
  EC50 / 48 h / Daphnia magna (Water flea): > 4.4 mg/l
  Method: OECD Test Guideline 202
  Information source: Internal study report

- Ethane-1,2-diol
  EC50 / 48 h / Daphnia magna (Water flea): > 100 mg/l
  Method: OECD Test Guideline 202
  Information source: Data provided by an external source.

Toxicity to other organisms

LD50 / 48 h / Apis mellifera (bees): > 110 µg/b
Method: OECD Test Guideline 213
(Data on the product itself) Information source: Internal study report Oral

LD50 / 48 h / Apis mellifera (bees): > 100 µg/b
Method: OECD Test Guideline 214
(Data on the product itself) Information source: Internal study report Contact

Chronic toxicity to fish

- Lenacil
  Early Life-Stage / NOEC / 90 d / Oncorhynchus mykiss (rainbow trout): 0.16 mg/l
  Method: OECD Test Guideline 210
  Information source: Internal study report

  flow-through test / NOEC / 28 d / Oncorhynchus mykiss (rainbow trout): 2.3 mg/l

Method: OECD Test Guideline 204
Information source: Internal study report

Chronic toxicity to aquatic Invertebrates

- Lenacil
  NOEC / 21 d / Daphnia magna (Water flea): 0.48 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

Moderately 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

See product label for additional application instructions relating to environmental precautions. 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. Dispose of as unused product.

SECTION 14: Transport information

ADR

14.1.	UN number:	3082
14.2.	UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Lenacil)
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. (Lenacil)
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:
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. (Lenacil)
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

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 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 Dir 92/85/EEC on the safety and health at work of pregnant workers.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 registered as a plant protection product under Regulation (EC) No. 1107/2009.
Refer to the label for exposure assessment information.

SECTION 16: Other information

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

H302	Harmful if swallowed.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very 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
EbC_{50}	Concentration at which 50% reduction of biomass is observed
EC_{50}	Median effective concentration
EN	European Norm
EPA	Environmental Protection Agency
ErC_{50}	Concentration at which a 50% inhibition of growth rate is observed
EyC_{50}	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
LC_{50}	Median Lethal Concentration
LD_{50}	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 FMC's safety information.
Take notice of the directions of use on the label.

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Note: The classification of substances listed in Annex VI to the CLP regulation are derived from assessment of the best knowledge and information available at the time of its publication or subsequent amendments.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.

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.