



SAFETY DATA SHEET	Revision Date: 05.07.2017
	Print Date: 12.12.2018
	SDS Number: 000000247921
Optiphen™ 300 preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 847406	Version: 1.2

Conforms to EU Regulation 1907/2006/EC as amended. - SDSGHS_BE

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

1.1 Product identifier

Trade name : Optiphen™ 300 preservative
™ Trademark, Ashland or its subsidiaries, registered in various countries

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

Recommended use : Personal care

1.3 Details of the supplier of the safety data sheet Ashland P.O. Box 8619 NL3009 AP, Rotterdam Netherlands +31 10 497 5000 (in the Netherlands), or contact your local CSR contact person EUSMT@ashland.com	1.4 Emergency telephone number +1-800-274-5263/001-859-357-3564, or contact your local emergency telephone number at 070/245.245 Product Information +31 10 497 5000 (in the Netherlands), or contact your local CSR contact person
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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Eye irritation, Category 2 H319: Causes serious eye irritation.

Acute toxicity, Category 4 H302: Harmful if swallowed.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

**SAFETY DATA SHEET**

Revision Date: 05.07.2017

Print Date: 12.12.2018

SDS Number: 000000247921

Version: 1.2

Optiphen™ 300 preservative
 ™ Trademark, Ashland or its subsidiaries, registered
 in various countries
 847406

Hazard pictograms



Signal word

: Warning

Hazard statements

: H319
H302Causes serious eye irritation.
Harmful if swallowed.

Precautionary statements

: **Prevention:**

P264

Wash skin thoroughly after handling.

P280

Wear eye protection/ face protection.

Response:P305 + P351 + P338 IF IN EYES: Rinse cautiously with
water for several minutes. Remove contact
lenses, if present and easy to do. Continue
rinsing.P337 + P313 If eye irritation persists: Get medical advice/
attention.P301 + P312 IF SWALLOWED: Call a POISON
CENTER/doctor/.?/if you feel unwell.**2.3 Other hazards****Additional advice**

No information available.

SECTION 3: Composition/information on ingredients**3.2 Mixtures****Hazardous components**

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
2-Phenoxyethanol	122-99-6 204-589-7 01-2119488943-21-0020 01-2119488943-21-xxxx	Acute Tox.4; H302 Eye Irrit.2; H319	>= 90,00 - <= 100,00
Octane-1,2-diol	1117-86-8	Eye Irrit.2; H319	>= 10,00 - <



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	SDS Number: 000000247921
Optiphen™ 300 preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 847406	Version: 1.2

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For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	: Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled	: If breathed in, move person into fresh air. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	: First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.
In case of eye contact	: Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye.
If swallowed	: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	: Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea) irritation (nose, throat, airways) pain in the abdomen and lower back acute kidney failure (sudden slowing or stopping of urine production)
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Optiphen™ 300 preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 847406	Version: 1.2

Risks : Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No hazards which require special first aid measures.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Water spray
Foam
Carbon dioxide (CO₂)
Dry chemical

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : carbon dioxide and carbon monoxide

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Specific extinguishing methods : Product is compatible with standard fire-fighting agents.

Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.



SAFETY DATA SHEET	Revision Date: 05.07.2017
	Print Date: 12.12.2018
	SDS Number: 000000247921
Optiphen™ 300 preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 847406	Version: 1.2

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
Comply with all applicable federal, state, and local regulations.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material 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).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For further information see Section 8 and Section 13 of the safety data sheet.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Do not breathe vapours/dust.
Do not smoke.
Container hazardous when empty.
Avoid contact with skin and eyes.
Smoking, eating and drinking should be prohibited in the application area.
For personal protection see section 8.
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : Wash hands before breaks and at the end of workday. When using do not eat or drink. When using do not smoke.



SAFETY DATA SHEET	Revision Date: 05.07.2017
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Optiphen™ 300 preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 847406	Version: 1.2

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards. Protect from frost.

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Engineering measures

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Personal protective equipment

Eye protection : Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

Hand protection

Remarks : butyl-rubber

The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : Wear as appropriate:
Impervious clothing
Safety shoes
Choose body protection according to the amount and concentration of the dangerous substance at the work place.



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Optiphen™ 300 preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 847406	Version: 1.2

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: colourless
Odour	: No data available
Odour Threshold	: No data available
pH	: 5,6
Melting point/range	: No data available
Boiling point/boiling range	: > 250 °C
Flash point	: > 120 °C
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: 108.612
Density	: No data available
Solubility(ies)	
Water solubility	: No data available
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available



SAFETY DATA SHEET	Revision Date: 05.07.2017
	Print Date: 12.12.2018
	SDS Number: 000000247921
Optiphen™ 300 preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 847406	Version: 1.2

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : 21 mPa.s (25 °C)

Viscosity, kinematic : No data available

Oxidizing properties : No data available

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Product will not undergo hazardous polymerization.

10.4 Conditions to avoid

Conditions to avoid : excessive heat
Do not allow evaporation to dryness.

10.5 Incompatible materials

Materials to avoid : Strong bases
Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products : No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

**SAFETY DATA SHEET**

Revision Date: 05.07.2017

Print Date: 12.12.2018

SDS Number: 000000247921

Version: 1.2

Optiphen™ 300 preservative
 ™ Trademark, Ashland or its subsidiaries, registered
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Information on likely routes of exposure : Inhalation
 Skin contact
 Eye Contact
 Ingestion

Acute toxicity

Not classified based on available information.

Components:

2-Phenoxyethanol

Acute oral toxicity : LD50 (Rat): 1.850 mg/kg
 Method: OECD Test Guideline 401

Acute inhalation toxicity : Assessment: No adverse effect has been observed in acute inhalation toxicity tests.

Acute dermal toxicity : LD50 (Rat): 14.391 mg/kg

Components:

Octane-1,2-diol

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg
 Method: OECD Test Guideline 401
 GLP: yes
 Assessment: No adverse effect has been observed in acute oral toxicity tests.

Acute inhalation toxicity : LC50 (Rat): > 7,015 mg/l
 Exposure time: 4 h
 Test atmosphere: dust/mist
 Method: OECD Test Guideline 403
 Remarks: Information given is based on data obtained from similar substances.

Skin corrosion/irritation

Not classified based on available information.

Product:

Remarks: May cause skin irritation in susceptible persons.

Components:

2-Phenoxyethanol

Species: Rabbit

Result: No skin irritation

Octane-1,2-diol

Species: Rabbit

Result: No skin irritation

**SAFETY DATA SHEET**

Revision Date: 05.07.2017

Print Date: 12.12.2018

SDS Number: 000000247921

Version: 1.2

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 in various countries
 847406

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin., Causes serious eye irritation.

Components:

2-Phenoxyethanol

Species: Rabbit

Result: Irritating to eyes.

Octane-1,2-diol

Result: Irritating to eyes.

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Components:

2-Phenoxyethanol

Species: Guinea pig

Assessment: Does not cause skin sensitisation.

Method: OECD Test Guideline 406

Octane-1,2-diol

Test Type: Local lymph node assay

Species: Mouse

Assessment: Did not cause sensitisation on laboratory animals.

Method: OECD Test Guideline 429

GLP: yes

Germ cell mutagenicity

Not classified based on available information.

Components:

2-Phenoxyethanol

Genotoxicity in vitro

: Test Type: Ames test

Test species: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Result: negative

Octane-1,2-diol

Genotoxicity in vitro

: Test Type: Ames test

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

**SAFETY DATA SHEET**

Revision Date: 05.07.2017

Print Date: 12.12.2018

SDS Number: 000000247921

Version: 1.2

Optiphen™ 300 preservative
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 847406

GLP: yes

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

Components:

2-Phenoxyethanol

Effects on foetal
development

: Test Type: Pre-natal

Species: Rat

Application Route: Oral

General Toxicity Maternal: No observed adverse effect level:

ca. 300 mg/kg bw/day

Method: OPPTS 870.3700

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity**Components:**

2-Phenoxyethanol

Species: Rat, male and female

NOAEL: 369 mg/kg

Application Route: Oral

Method: OECD Test Guideline 408

Species: Rabbit, male and female

NOAEL: 500 mg/kg

Application Route: Dermal

Aspiration toxicity

Not classified based on available information.

Further information**Product:**

Remarks: No data available

SECTION 12: Ecological information**12.1 Toxicity****Components:**

**SAFETY DATA SHEET**

Revision Date: 05.07.2017

Print Date: 12.12.2018

SDS Number: 000000247921

Version: 1.2

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 ™ Trademark, Ashland or its subsidiaries, registered
 in various countries
 847406

2-Phenoxyethanol**Toxicity to fish**

: LC50 (Pimephales promelas (fathead minnow)): 337 - 352
 mg/l
 Exposure time: 96 h
 Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): > 500 mg/l
 Exposure time: 48 h
 Test Type: static test
 Method: OECD Test Guideline 202

Toxicity to algae

: NOEC (Desmodesmus subspicatus (green algae)): > 500 mg/l
 End point: Growth inhibition
 Exposure time: 72 h
 Test Type: static test

Toxicity to fish (Chronic toxicity)

: NOEC: 23 mg/l
 Exposure time: 34 d
 Species: Pimephales promelas (fathead minnow)
 Test Type: flow-through test
 Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

: NOEC: 9,43 mg/l
 Exposure time: 21 d
 End point: Reproduction Test
 Species: Daphnia (water flea)
 Test Type: semi-static test
 Method: OECD Test Guideline 211

Octane-1,2-diol**Toxicity to fish**

: LC50 (Danio rerio (zebra fish)): > 2,2 - < 22,2 mg/l
 Exposure time: 96 h
 Test Type: static test

Toxicity to daphnia and other aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 176 mg/l
 Exposure time: 48 h
 Test Type: semi-static test
 Method: OECD Test Guideline 202

Toxicity to algae

: EC50 (Pseudokirchneriella subcapitata (green algae)): 35 mg/l
 End point: Growth inhibition
 Exposure time: 72 h
 Method: OECD Test Guideline 201
 GLP: yes

**SAFETY DATA SHEET**

Revision Date: 05.07.2017

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SDS Number: 000000247921

Version: 1.2

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 ™ Trademark, Ashland or its subsidiaries, registered
 in various countries
 847406

12.2 Persistence and degradability**Components:**

2-Phenoxyethanol

Biodegradability

: Result: Readily biodegradable.
 Biodegradation: 99 %
 Exposure time: 28 d
 Method: OECD Test Guideline 301F

Octane-1,2-diol

Biodegradability

: Result: Readily biodegradable.
 Biodegradation: 75 %
 Exposure time: 28 d
 Method: OECD Test Guideline 301D
 Remarks: Readily biodegradable

12.3 Bioaccumulative potential**Components:**

2-Phenoxyethanol

Partition coefficient: n-octanol/water

: log Pow: 1,16

Octane-1,2-diol

Partition coefficient: n-octanol/water

: log Pow: 1,0

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment**Components:**

2-Phenoxyethanol

Assessment

: This substance is not considered to be persistent,
 bioaccumulating and toxic (PBT)..

: This substance is not considered to be very persistent and
 very bioaccumulating (vPvB)..

12.6 Other adverse effects**Product:**

Additional ecological

: An environmental hazard cannot be excluded in the event of



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	SDS Number: 000000247921
Optiphen™ 300 preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 847406	Version: 1.2

information

unprofessional handling or disposal., Harmful to aquatic life.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Product : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.
- Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.

SECTION 14: Transport information

SECTION 14: Transport information

14.1 UN number

ADN: Not dangerous goods

ADR: Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS: Not dangerous goods

RID: Not dangerous goods

14.2 UN proper shipping name

ADN: Not dangerous goods

ADR: Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS: Not dangerous goods

RID: Not dangerous goods

14.3 Transport hazard class(es)



SAFETY DATA SHEET	Revision Date: 05.07.2017
	Print Date: 12.12.2018
	SDS Number: 000000247921
Optiphen™ 300 preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 847406	Version: 1.2

ADN: Not dangerous goods

ADR: Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS: Not dangerous goods

RID: Not dangerous goods

14.4 Packing group

ADN: Not dangerous goods

ADR: Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS: Not dangerous goods

RID: Not dangerous goods

14.5 Environmental hazards

ADN: Not applicable

ADR: Not applicable

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Not applicable

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Not applicable

INTERNATIONAL MARITIME DANGEROUS GOODS: Not applicable

RID: Not applicable

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Ship Type: Not applicable

Hazard code(s): Not applicable

Pollutant Category: Not applicable

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

SECTION 15: Regulatory information

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

Regulation (EC) No 1005/2009 on substances that : Not applicable
deplete the ozone layer



SAFETY DATA SHEET	Revision Date: 05.07.2017
	Print Date: 12.12.2018
	SDS Number: 000000247921
Optiphen™ 300 preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 847406	Version: 1.2

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.
Not applicable

The components of this product are reported in the following inventories:

TSCA : On TSCA Inventory

DSL All components of this product are on the Canadian DSL

AICS On the inventory, or in compliance with the inventory

ENCS On the inventory, or in compliance with the inventory

KECI On the inventory, or in compliance with the inventory

PICCS Not in compliance with the inventory

IECSC On the inventory, or in compliance with the inventory

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

15.2 Chemical safety assessment

No data available



SAFETY DATA SHEET	Revision Date: 05.07.2017
	Print Date: 12.12.2018
	SDS Number: 000000247921
Optiphen™ 300 preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 847406	Version: 1.2

SECTION 16: Other information

Further information

Revision Date: 05.07.2017

Classification procedure:

H319 Causes serious eye irritation.

Calculation method

H302 Harmful if swallowed.

Calculation method

Full text of H-Statements

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

Other information : The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Ashland's Environmental Health and Safety Department (+31 10 497 5000).

Sources of key data used to compile the Safety Data Sheet

Ashland internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists

BEI : Biological Exposure Index

CAS : Chemical Abstracts Service (Division of the American Chemical Society).

CMR : Carcinogenic, Mutagenic or Toxic for Reproduction

FG : Food grade

GHS : Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement : Hazard Statement

IATA : International Air Transport Association.



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IATA-DGR : Dangerous Goods Regulation by the “International Air Transport Association” (IATA).

ICAO : International Civil Aviation Organization

ICAO-TI (ICAO) : Technical Instructions by the “International Civil Aviation Organization”

IMDG : International Maritime Code for Dangerous Goods

ISO : International Organization for Standardization

logPow : octanol-water partition coefficient

LCxx : Lethal Concentration, for xx percent of test population

LDxx : Lethal Dose, for xx percent of test population.

ICxx : Inhibitory Concentration for xx of a substance

Ecxx : Effective Concentration of xx

N.O.S.: Not Otherwise Specified

OECD : Organization for Economic Co-operation and Development

OEL : Occupational Exposure Limit

P-Statement : Precautionary Statement

PBT : Persistent , Bioaccumulative and Toxic

PPE : Personal Protective Equipment

STEL : Short-term exposure limit

STOT : Specific Target Organ Toxicity

TLV : Threshold Limit Value

TWA : Time-weighted average

vPvB : Very Persistent and Very Bioaccumulative

WEL : Workplace Exposure Level

ABM : Water Hazard Class for the Netherlands

ADR : Agreement concerning the International Carriage of Dangerous Goods by Road.

ADNR: Regulation for the Carriage of Dangerous Substances on the Rhine

CLP : Classification, Labelling and Packaging

CSA : Chemical Safety Assessment

CSR : Chemical Safety Report

DNEL : Derived No Effect Level.

EINECS : European Inventory of Existing Commercial Chemical Substances.

ELINCS : European List of Notified Chemical Substances

GV: Exposure limits (DK)

PEC : Predicted Effect Concentration

PEL : Permissible Exposure Limits

PNEC : Predicted No Effect Concentration

R-phrase : Risk phrase

REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals

RID : Regulation Concerning the International Transport of Dangerous Goods by Rail

S-phrase: Safety phrase

WGK : German Water Hazard Class

**SAFETY DATA SHEET**

Revision Date: 05.07.2017

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SDS Number: 000000247921

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