



SAFETY DATA SHEET	Revision Date: 31.10.2018
	Print Date: 12.12.2018
	SDS Number: R0717395
Optiphen™ BD preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 830377	Version: 1.5

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™ BD 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 : Preservative

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)

Acute toxicity, Category 4	H302: Harmful if swallowed.
Acute toxicity, Category 4	H332: Harmful if inhaled.
Acute toxicity, Category 4	H332: Harmful if inhaled.
Skin irritation, Category 2	H315: Causes skin irritation.
Serious eye damage, Category 1	H318: Causes serious eye damage.

**SAFETY DATA SHEET**

Revision Date: 31.10.2018

Print Date: 12.12.2018

SDS Number: R0717395

Version: 1.5

Optiphen™ BD preservative
 ™ Trademark, Ashland or its subsidiaries, registered
 in various countries
 830377

Specific target organ toxicity - repeated
 exposure, Category 1, Lungs

H372: Causes damage to organs through
 prolonged or repeated exposure if inhaled.

2.2 Label elements**Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms :



Signal word : Danger

Hazard statements : H302 + H332 Harmful if swallowed or if inhaled.
 H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H372 Causes damage to organs (Lungs) through
 prolonged or repeated exposure if inhaled.

Precautionary statements : **Prevention:**
 P260 Do not breathe dust/ fume/ gas/ mist/
 vapours/ spray.
 P280 Wear protective gloves/ eye protection/ face
 protection.

Response:

P304 + P340 + P312 IF INHALED: Remove person to fresh
 air and keep comfortable for breathing. Call
 a POISON CENTER/doctor if you feel
 unwell.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously
 with water for several minutes. Remove
 contact lenses, if present and easy to do.
 Continue rinsing. Immediately call a
 POISON CENTER/doctor.

P301 + P312 IF SWALLOWED: Call a POISON
 CENTER/doctor/.? if you feel unwell.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take
 off immediately all contaminated clothing.
 Rinse skin with water/ shower.

Disposal:

P501 Dispose of contents/container in
 accordance with local and national
 regulations.

Hazardous components which must be listed on the label:

SAFETY DATA SHEET

Revision Date: 31.10.2018

Print Date: 12.12.2018

SDS Number: R0717395

Version: 1.5

 Optiphen™ BD preservative
 ™ Trademark, Ashland or its subsidiaries, registered
 in various countries
 830377

 Benzyl alcohol
 Benzoic acid
 3-Acetyl-6-methyl-2H-pyran-2,4(3H)-dione

2.3 Other hazards
Additional advice

 The classification, STOT RE 1 and 2 is not applicable for this liquid product as this classification is related to powders.
 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 (%)
Benzyl alcohol	100-51-6 202-859-9 01-2119492630-38-xxxx	Acute Tox.4; H302 Acute Tox.4; H332 Eye Irrit.2; H319	>= 80,00 - < 90,00
Benzoic acid	65-85-0 200-618-2 01-2119455536-33-xxxx	Skin Irrit.2; H315 Eye Dam.1; H318 STOT RE1; H372	>= 10,00 - < 15,00
3-Acetyl-6-methyl-2H-pyran-2,4(3H)-dione	520-45-6 208-293-9 01-2120747930-51-0005	Acute Tox.4; H302	>= 5,00 - < 10,00

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.
 Consult a physician.
 Show this safety data sheet to the doctor in attendance.
 Do not leave the victim unattended.

SAFETY DATA SHEET

Revision Date: 31.10.2018

Print Date: 12.12.2018

SDS Number: R0717395

Version: 1.5

Optiphen™ BD preservative
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in various countries
830377

- 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 : Remove contaminated clothing. If irritation develops, get medical attention.
If on skin, rinse well with water.
Wash contaminated clothing before re-use.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Protect unharmed eye.
- If swallowed : Obtain medical attention.
Do NOT induce vomiting.
Rinse mouth with water.
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 : No symptoms known or expected.
- Risks : Harmful if swallowed or if inhaled.
Causes skin irritation.
Causes serious eye damage.
Causes damage to organs through prolonged or repeated exposure if inhaled.

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



SAFETY DATA SHEET	Revision Date: 31.10.2018
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	SDS Number: R0717395
Optiphen™ BD preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 830377	Version: 1.5

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 : If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release.
Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : carbon dioxide and carbon monoxide
Hydrocarbons
toxic fumes
acid smoke and fumes

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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
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.



SAFETY DATA SHEET	Revision Date: 31.10.2018
	Print Date: 12.12.2018
	SDS Number: R0717395
Optiphen™ BD preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 830377	Version: 1.5

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.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Protect from frost.

Keep container tightly closed in a dry and well-ventilated
place.



SAFETY DATA SHEET	Revision Date: 31.10.2018
	Print Date: 12.12.2018
	SDS Number: R0717395
Optiphen™ BD preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 830377	Version: 1.5

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 and face shield when there is potential for exposure of the eyes or face to liquid, vapor or mist.
Maintain eye wash station in immediate work area.

Use eye protection according to EN 166.

Hand protection

Material : butyl-rubber
Break through time : 480 min
Glove thickness : > 0,5 mm

Remarks : The exact break through time can be obtained from the protective glove producer and this has to be observed. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

butyl-rubber

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

The suitability for a specific workplace should be discussed



SAFETY DATA SHEET	Revision Date: 31.10.2018
	Print Date: 12.12.2018
	SDS Number: R0717395
Optiphen™ BD preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 830377	Version: 1.5

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.
Discard gloves that show tears, pinholes, or signs of wear.
- Protective clothing complying with EN 13688.
Safety shoes complying with EN ISO 20345.
- Respiratory protection : In the case of vapour formation use a respirator with an approved filter within the capabilities of the respirator/filter combination.
Where concentrations are above recommended limits or are unknown, or a cartridge type respirator is not adequate, wear a positive-pressure supplied-air respirator.
- Respiratory protection complying with EN 136.
Respiratory protection complying with EN 140.
Respiratory protection complying with EN 14387.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance : liquid
- Colour : yellow
- Odour : noticeable
- Odour Threshold : No data available
- pH : 3
(20 °C)
- Melting point/freezing point : No data available
- Boiling point/boiling range : No data available
- Flash point : 93,4 °C
- Evaporation rate : No data available

**SAFETY DATA SHEET**

Revision Date: 31.10.2018

Print Date: 12.12.2018

SDS Number: R0717395

Version: 1.5

Optiphen™ BD preservative
 ™ Trademark, Ashland or its subsidiaries, registered
 in various countries
 830377

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 : No data available

Density : 1,05 - 1,09 g/cm³ (20 °C)

Solubility(ies)

Water solubility : 3 g/l

Solubility in other solvents : No data available

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

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

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.



SAFETY DATA SHEET	Revision Date: 31.10.2018
	Print Date: 12.12.2018
	SDS Number: R0717395
Optiphen™ BD preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 830377	Version: 1.5

10.3 Possibility of hazardous reactions

Hazardous reactions : Product will not undergo hazardous polymerization.

10.4 Conditions to avoid

Conditions to avoid : Avoid heat, open flame, and prolonged storage at elevated temperatures.
Exposure to air.
Exposure to light.

10.5 Incompatible materials

Materials to avoid : Acids
aluminum
Iron
Reducing agents
strong bases
Strong oxidizing agents
Zinc

10.6 Hazardous decomposition products

Hazardous decomposition products : carbon dioxide and carbon monoxide
Hydrocarbons

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on likely routes of exposure : Inhalation
Skin contact
Eye Contact
Ingestion

Acute toxicity

Harmful if swallowed or if inhaled.

Components:

Benzyl alcohol

Acute oral toxicity : LD50 (Rat, male): 1.620 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 4,178 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: Not classified as acutely toxic by inhalation under GHS.

**SAFETY DATA SHEET**

Revision Date: 31.10.2018

Print Date: 12.12.2018

SDS Number: R0717395

Version: 1.5

Optiphen™ BD preservative
 ™ Trademark, Ashland or its subsidiaries, registered
 in various countries
 830377

Acute dermal toxicity : LD50 (Rabbit): 2.000 mg/kg
 Assessment: Not classified as acutely toxic by dermal
 absorption under GHS.

Components:

Benzoic acid

Acute oral toxicity : LD50 (Rat): ca. 2.565 mg/kg
 Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 12,2 mg/l
 Exposure time: 4 h
 Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg
 Assessment: No adverse effect has been observed in acute
 dermal toxicity tests.

Components:

3-Acetyl-6-methyl-2H-pyran-2,4(3H)-dione

Acute oral toxicity : LD50 (Rat): 570 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Product:

Remarks: May cause skin irritation and/or dermatitis.

Components:

Benzyl alcohol

Species: Rabbit

Method: OECD Test Guideline 404

Result: Slight, transient irritation

Benzoic acid

Result: Irritating to skin.

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Remarks: May cause irreversible eye damage.

Components:

Benzyl alcohol

Result: Irritating to eyes.

Benzoic acid

SAFETY DATA SHEET

Revision Date: 31.10.2018

Print Date: 12.12.2018

SDS Number: R0717395

Version: 1.5

Optiphen™ BD preservative
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in various countries
830377

Species: Rabbit
Result: Corrosive

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Components:

Benzyl alcohol

Assessment: Did not cause sensitisation on laboratory animals.

Benzoic acid

Test Type: Local lymph node assay

Species: Mouse

Assessment: Does not cause skin sensitisation.

Germ cell mutagenicity

Not classified based on available information.

Components:

Benzyl alcohol

Genotoxicity in vitro : Remarks: In vitro tests did not show mutagenic effects

Genotoxicity in vivo : Test Type: Micronucleus test
Test species: Mouse
Method: OECD Test Guideline 474
Result: negative

Benzoic acid

Genotoxicity in vitro : Test Type: Ames test
Test species: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Result: negative

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Causes damage to organs (Lungs) through prolonged or repeated exposure if inhaled.

Components:

Benzoic acid

Exposure routes: Inhalation

Target Organs: Lungs

Assessment: The substance or mixture is classified as specific target organ toxicant, repeated

SAFETY DATA SHEET

Revision Date: 31.10.2018

Print Date: 12.12.2018

SDS Number: R0717395

Version: 1.5

 Optiphen™ BD preservative
 ™ Trademark, Ashland or its subsidiaries, registered
 in various countries
 830377

exposure, category 1.

Aspiration toxicity

Not classified based on available information.

Further information
Product:

Remarks: No data available

SECTION 12: Ecological information
12.1 Toxicity
Components:

Benzyl alcohol

 Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 460 mg/l
 Exposure time: 96 h

 Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 230 mg/l
 Exposure time: 48 h
 Method: OECD Test Guideline 202
 GLP: yes

 Toxicity to algae : (Pseudokirchneriella subcapitata (green algae)): 770 mg/l
 End point: EC50
 Exposure time: 72 h
 Method: OECD Test Guideline 201
 GLP: yes

 Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 51 mg/l
 Exposure time: 21 d
 End point: Reproduction Test
 Species: Daphnia magna (Water flea)
 Method: OECD Test Guideline 211

 Benzoic acid
 Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 44,6 mg/l
 Exposure time: 96 h

 Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): > 100 mg/l
 Exposure time: 48 h

Toxicity to algae : NOEC (Pseudokirchneriella subcapitata (green algae)): 10

**SAFETY DATA SHEET**

Revision Date: 31.10.2018

Print Date: 12.12.2018

SDS Number: R0717395

Version: 1.5

Optiphen™ BD preservative
 ™ Trademark, Ashland or its subsidiaries, registered
 in various countries
 830377

mg/l
 End point: Growth inhibition
 Exposure time: 72 h
 Test Type: static test
 Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOEC: > 120 mg/l
 Exposure time: 28 d
 Species: Oncorhynchus mykiss (rainbow trout)
 Test Type: semi-static test
 Method: OECD Test Guideline 204

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: >= 25 mg/l
 Exposure time: 21 d
 Species: Daphnia magna (Water flea)
 Test Type: semi-static test
 Method: OECD Test Guideline 211

12.2 Persistence and degradability**Components:**

Benzyl alcohol
 Biodegradability : Inoculum: activated sludge
 Result: Readily biodegradable.
 Biodegradation: 92 %
 Exposure time: 14 d

Benzoic acid
 Biodegradability : Result: Readily biodegradable.

12.3 Bioaccumulative potential**Components:**

Benzyl alcohol
 Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 1,10

Benzoic acid
 Bioaccumulation : Species: Gambusia affinis (Mosquito fish)
 Exposure time: 24 h
 Concentration: 0,00178 mg/l
 Bioconcentration factor (BCF): 21

**SAFETY DATA SHEET**

Revision Date: 31.10.2018

Print Date: 12.12.2018

SDS Number: R0717395

Version: 1.5

Optiphen™ BD preservative
 ™ Trademark, Ashland or its subsidiaries, registered
 in various countries
 830377

Method: Static

Partition coefficient: n-
 octanol/water : log Pow: 1,87

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Not relevant

12.6 Other adverse effects**Product:**

Additional ecological : No data available
 information

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Product : Do not dispose of waste into sewer.
 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



SAFETY DATA SHEET	Revision Date: 31.10.2018
	Print Date: 12.12.2018
	SDS Number: R0717395
Optiphen™ BD preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 830377	Version: 1.5

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)

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

SAFETY DATA SHEET

Revision Date: 31.10.2018

Print Date: 12.12.2018

SDS Number: R0717395

Version: 1.5

Optiphen™ BD preservative
™ Trademark, Ashland or its subsidiaries, registered
in various countries
830377

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
deplete the ozone layer : Not applicable

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

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

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

Regulation (EC) No 649/2012 of the European
Parliament and the Council concerning the export and
import of dangerous chemicals : Not applicable

REACH - Restrictions on the manufacture, placing on
the market and use of certain dangerous substances,
preparations and articles (Annex XVII) : Conditions of restriction for the
following entries should be
considered:
(3)

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

Other regulations : Take note of Directive 94/33/EC on the protection of young
people at work or stricter national regulations, where
applicable.

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



SAFETY DATA SHEET	Revision Date: 31.10.2018
	Print Date: 12.12.2018
	SDS Number: R0717395
Optiphen™ BD preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 830377	Version: 1.5

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	On the inventory, or in compliance with the inventory
IECSC	On the inventory, or in compliance with the inventory
TCSI	On the inventory, or in compliance with the inventory
TSCA	On TSCA 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


SECTION 16: Other information

Further information

Revision Date: 31.10.2018

Classification procedure:

H302	Harmful if swallowed.	Calculation method
H332	Harmful if inhaled.	Calculation method
H332	Harmful if inhaled.	Calculation method
H315	Causes skin irritation.	Calculation method
H318	Causes serious eye damage.	Calculation method
H372	Causes damage to organs through prolonged or repeated exposure if inhaled.	Calculation method

	Page: 19
SAFETY DATA SHEET	Revision Date: 31.10.2018
	Print Date: 12.12.2018
	SDS Number: R0717395
Optiphen™ BD preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 830377	Version: 1.5

Full text of H-Statements

H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure if inhaled.

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.
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



SAFETY DATA SHEET	Revision Date: 31.10.2018
	Print Date: 12.12.2018
	SDS Number: R0717395
Optiphen™ BD preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 830377	Version: 1.5

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-pharse : Risk phrase
 REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals
 RID : Regulation Concerning the International Transport of Dangerous Goods by Rail
 S-pharse: Safety phrase
 WGK : German Water Hazard Class