SECTION 1. IDENTIFICATION

Product name : PondKlear Aquatic Herbicide
Product code : 000000035713

Manufacturer or supplier's details
Company : Arch Chemicals, Inc.
1200 Bluegrass Lakes Parkway
Alpharetta, GA
30004
United States of America (USA)
E-mail address : sds@lonza.com
Emergency telephone number : In case of emergency call CHEMTREC US: 1-800-424-9300,
CHEMTREC WORLD-WIDE: +1-703-527-3887.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification
Reproductive toxicity : Category 2

GHS label elements
Hazard pictograms : 

Signal word : Warning
Hazard statements : H361 Suspected of damaging fertility or the unborn child.
Precautionary statements : Prevention:
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read
and understood.
P280 Wear protective gloves/ protective clothing/ eye protection/
face protection.
Response:
P308 + P313 IF exposed or concerned: Get medical advice/ atten-
tion.
Storage:
P405 Store locked up.
Disposal:
P501 Dispose of contents/container in accordance with local regu-
lation.

Other hazards
None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS
SECTION 4. FIRST AID MEASURES

If inhaled
- Move to fresh air.
- If unconscious, place in recovery position and seek medical advice.

In case of skin contact
- Wash with water and soap as a precaution.
- If on clothes, remove clothes.
- In the case of skin irritation or allergic reactions see a physician.

In case of eye contact
- Flush eyes with water as a precaution.
- Remove contact lenses.
- Protect unharmed eye.
- Keep eye wide open while rinsing.
- If eye irritation persists, consult a specialist.

If swallowed
- Do not induce vomiting without medical advice.
- Never give anything by mouth to an unconscious person.
- If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed
- No information available.

Notes to physician
- Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media
- Dry chemical
- Carbon dioxide (CO2)
- Foam
- Water spray

Specific hazards during firefighting
- Heating or fire can release toxic gas.

Further information
- Use water spray to cool unopened containers.

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

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
- Use personal protective equipment.
Environmental precautions

**Air:** Not applicable

**Water:** If the product contaminates rivers and lakes or drains inform respective authorities. Do not flush into surface water or sanitary sewer system.

**Soil:** 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).

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**SECTION 7. HANDLING AND STORAGE**

**Advice on safe handling:** Avoid contact with skin, eyes and clothing. Avoid inhalation of vapour or mist.

**Conditions for safe storage:** Keep tightly closed in a dry and cool place.

**Materials to avoid:** Refer to Section 10, "Incompatible Materials."

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

**Components with workplace control parameters**

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propane-1,2-diol</td>
<td>57-55-6</td>
<td>TWA (Aerosols)</td>
<td>10 mg/m³</td>
<td>WEEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (Aerosols)</td>
<td>10 mg/m³</td>
<td>CAD ON OEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (Vapor and aerosol.)</td>
<td>50 ppm 155 mg/m³</td>
<td>CAD ON OEL</td>
</tr>
</tbody>
</table>

**Hazardous components without workplace control parameters**

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,2-Benzisothiazol-3(2H)-one</td>
<td>2634-33-5</td>
</tr>
</tbody>
</table>

**Appropriate engineering controls**

**Engineering measures:** Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment**

**Respiratory protection:** No personal respiratory protective equipment normally required.

**Hand protection**

**Remarks:** Wear protective gloves.

**Eye protection:** Safety glasses
Skin and body protection: Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: liquid
Colour: off-white, milky
Odour: sharp
Odour Threshold: no data available
pH: 6.38, 1% solution
Melting point/freezing point: no data available
Boiling point/boiling range: no data available
Flash point: > 212 °F
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: 1.157
Water solubility: no data available
Partition coefficient: n-octanol/water: no data available
Auto-ignition temperature: no data available
Decomposition temperature: no data available
Viscosity, dynamic: no data available
Viscosity, kinematic: no data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity: No decomposition if stored and applied as directed.
SAFETY DATA SHEET

PondKlear Aquatic Herbicide
Version 1.2  SDS Number: 000000035713  Revision Date: 2018.05.30

Chemical stability : Stable under recommended storage conditions.
Possibility of hazardous reactions : Stable under recommended storage conditions. No hazards to be specially mentioned.
Conditions to avoid : Heat
Incompatible materials : Strong oxidizing agents
                      : Strong acids and strong bases
Hazardous decomposition products : Nitrogen oxides (NOx)
                                  : Carbon oxides
                                  : Other hazardous decomposition products may be formed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity
Acute oral toxicity (LD50) : > 5,000 mg/kg
                          : Species: Rat (female)
Acute inhalation toxicity (LC50) : > 2.10 mg/l
                                  : Species: Rat
                                  : Exposure time: 4 h
Acute dermal toxicity (LD50) : > 5,000 mg/kg
                          : Species: Rat

Carcinogenicity

IARC
No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA
No component of this product present at levels greater than or equal to 0.1% is on OSHA’s list of regulated carcinogens.

NTP
No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

ACGIH
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity
no data available

Persistence and degradability
no data available

Bioaccumulative potential

Ref. 59208.1 / 000000035713  Page 5 (10)
Components:
Propane-1,2-diol
Partition coefficient: n-octanol/water
  log Pow: -0.92
               log Pow: -1.07 (20.5 °C)
               pH: 6.2 - 6.4
               Method: Tested according to Directive 92/69/EEC.

Mobility in soil
no data available

Other adverse effects
Ozone-Depletion Potential
  Regulation: US. EPA Clean Air Act (CAA) Section 602 Ozone-
  Depleting Substances (40 CFR 82, Subpt. A, App A & B)
  Remarks: This product neither contains, nor was manufactured
  with a Class I or Class II ODS as defined by the U.S. Clean Air Act

Additional ecological information
  Very toxic to aquatic life with long lasting effects.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods
Waste from residues
  If this product becomes a waste, it will be a nonhazardous waste.
  As a nonhazardous liquid waste, it should be disposed of in ac-
  cordance with local, state and federal regulations.

SECTION 14. TRANSPORT INFORMATION

IATA
  UN number : 3082
  Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.
                        (Flumioxazin)
  Transport hazard class : 9
  Packing group : III
  Labels : 9MI
  Environmental hazards : yes

IMDG
  UN number : 3082
  Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.
                        (Flumioxazin)
  Transport hazard class : 9
  Packing group : III
  Labels : 9
  EmS Number 1 : F-A
  EmS Number 2 : S-F
  Environmental hazards : Marine pollutant: yes
ADR

<table>
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<th>UN number</th>
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<tbody>
<tr>
<td>Proper shipping name</td>
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<tr>
<td>Transport hazard class</td>
<td>9</td>
</tr>
<tr>
<td>Packing group</td>
<td>III</td>
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<tr>
<td>Classification Code</td>
<td>M6</td>
</tr>
<tr>
<td>Hazard Identification Number</td>
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<td>Labels</td>
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<td>Environmental hazards</td>
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RID

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<td>Transport hazard class</td>
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<tr>
<td>Labels</td>
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<tr>
<td>Environmental hazards</td>
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DOT

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<td>Environmentally hazardous substance, liquid, n.o.s. (Flumioxazin)</td>
</tr>
<tr>
<td>Transport hazard class</td>
<td>9</td>
</tr>
<tr>
<td>Packing group</td>
<td>III</td>
</tr>
<tr>
<td>Labels</td>
<td>9</td>
</tr>
<tr>
<td>Emergency Response Guidebook Number</td>
<td>171</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>yes</td>
</tr>
</tbody>
</table>
TDG

UN number : 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Flumioxazin)

Transport hazard class : 9
Packing group : III
Labels : 9
Environmental hazards : yes

Special precautions for user :
49CFR (DOT) Material is not regulated for ground transportation within the US if shipped in non-bulk packages. Material is not regulated as a marine pollutant for ground transportation within the US if shipped in non-bulk packages (reference 49CFR 171.4(c)).

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not applicable

SECTION 15. REGULATORY INFORMATION

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals.

Signal word : CAUTION!
Hazard statements : Harmful if inhaled. Harmful if absorbed through skin. Causes moderate eye irritation.
EPA No. : 8959-61

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity
This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards
See above: SECTION 2. Hazard Identification-GHS Classification

SARA 302
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act
This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC’s (40 CFR 60.489):

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propane-1,2-diol</td>
<td>57-55-6</td>
<td>5 - 7 %</td>
</tr>
</tbody>
</table>

**Clean Water Act**

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

**US State Regulations**

**Massachusetts Right To Know**

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know**

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-[7-Fluoro-3-oxo-4-(prop-2-yn-1-yl)-3,4-dihydro-2H-1,4-benzoxazin-6-yl]-4,5,6,7-tetrahydro-1H-isooindole-1,3(2H)-dione</td>
<td>103361-09-7</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
</tr>
<tr>
<td>Propane-1,2-diol</td>
<td>57-55-6</td>
</tr>
</tbody>
</table>

**New Jersey Right To Know**

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-[7-Fluoro-3-oxo-4-(prop-2-yn-1-yl)-3,4-dihydro-2H-1,4-benzoxazin-6-yl]-4,5,6,7-tetrahydro-1H-isooindole-1,3(2H)-dione</td>
<td>103361-09-7</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
</tr>
<tr>
<td>Propane-1,2-diol</td>
<td>57-55-6</td>
</tr>
</tbody>
</table>

**New York City Hazardous Substances**

No components listed on the New York City Hazardous Substances List

**California Prop. 65**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
SECTION 16. OTHER INFORMATION

Arch is a wholly-owned subsidiary of Lonza and continues to operate as Arch Chemicals, Inc.
Revision Date : 2018.05.30

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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.