

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 453/2010 - **United Kingdom (UK)**

SAFETY DATA SHEET

ColibriDigital 1614 1000ml

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

1.1 Product identifier

Product no. : 1547128
Product name : ColibriDigital 1614 1000ml

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

Identified uses: Printing inks, coatings, toners, and related materials

Uses advised against: Not Available

1.3 Details of the supplier of the safety data sheet: ColibriDigital

1.4 Emergency telephone number

24 Hour Emergency Phone : 800.535.5053 INFOTRAC 24 Hour Spill and Emergency (+1 352 323 3500 outside of North America)

National advisory body/Poison Center

Telephone number : Not available.
Hours of operation : Not available.
Information limitations : Not available.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture


Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Eye Dam./Irrit. 2, H319
Aquatic Chronic 3, H412



The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

2.2 Label elements

| | | |
|--------------------------|---|--|
| Hazard pictograms | : |  |
| Signal word | : | Warning |
| Hazard statements | : | Causes serious eye irritation. Harmful to aquatic life with long lasting effects. |

Precautionary statements

| | | |
|-------------------|---|---|
| General | : | Read label before use. |
| Prevention | : | Wear eye or face protection. Avoid release to the environment. Wash hands thoroughly after handling. |
| Response | : | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| Storage | : | Not applicable. |
| Disposal | : | Dispose of contents and container in accordance with all local, regional, national and international regulations. |

| | | |
|------------------------------|---|---|
| Hazardous ingredients | : | ?-butyrolactone bis(2-ethoxyethyl) ether |
|------------------------------|---|---|

| | | |
|------------------------------------|---|-----------------|
| Supplemental label elements | : | Not applicable. |
|------------------------------------|---|-----------------|

| | | |
|---|---|-----------------|
| Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles | : | Not applicable. |
|---|---|-----------------|

Special packaging requirements

| | | |
|--|---|-----------------|
| Containers to be fitted with child-resistant fastenings | : | Not applicable. |
| Tactile warning of danger | : | Not applicable. |

2.3 Other hazards

| | | |
|--|---|-----------------|
| Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII | : | Not applicable. |
|--|---|-----------------|

| | | |
|---|---|-----------------|
| Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII | : | Not applicable. |
|---|---|-----------------|

| | | |
|--|---|-------------|
| Other hazards which do not result in classification | : | None known. |
|--|---|-------------|

SECTION 3: Composition/information on ingredients



3.1 Substances : Not applicable

3.2 Mixtures : Mixture

| Product/ingredient name | Identifiers | % | Classification | Type |
|---------------------------------|---|------------------|---|--------|
| | | | Regulation (EC) No. 1272/2008 [CLP] | |
| ?-butyrolactone | EC:202-509-5 CAS : 96-48-0 Index: | $\geq 7 - < 10$ | Acute Tox. 4, H302 (oral) Skin Corr./Irrit. 2, H315 Eye Dam./Irrit. 2, H319 | [1][2] |
| bis(2-ethoxyethyl) ether | EC:203-963-7 CAS : 112-36-7 Index: | $\geq 7 - < 10$ | Eye Dam./Irrit. 2, H319 | [1] |
| Carbon black | EC:215-609-9 CAS : 1333-86-4 Index: | $\geq 2 - < 3$ | Not classified. , | [2] |
| Polymer Dispersant | - | $\geq 1 - < 2$ | Eye Dam./Irrit. 2, H319 | [1] |
| Amines, coco alkyl, ethoxylated | EC:500-152-2 Index: | $\geq 0,2 - < 1$ | Acute Tox. 4, H302 (oral) Skin Corr./Irrit. 2, H315 Eye Dam./Irrit. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 | [1] |

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

See Section 16 for the full text of the R phrases or H statements declared above.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. \20 If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. **Get medical**



- attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
 - Ingestion** : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
 - Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : Irritating to mouth, throat and stomach.

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness
- Inhalation** : No specific data.
- Skin contact** : No specific data.
- Ingestion** : No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.

SECTION 5: Firefighting measures



5.1 Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.

5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

5.3 Advice for firefighters

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. \20 Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
- Additional information** : Not available.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

- 6.2 Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

6.3 Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place **in an**



- appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** :
- : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows.
 - 20 Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.
- 6.4 Reference to other sections** :
- : See Section 1 for emergency contact information.
 - : See Section 8 for information on appropriate personal protective equipment.
 - : See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

- Protective measures** :
- : Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** :
- : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

- :
- : Store in accordance with local regulations.
 - 20 Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific end use(s)

- Recommendations** :
- : Not available.
- Industrial sector specific solutions** :
- : Not available.



SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker or exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

| Product/ingredient name | Exposure limit values |
|-------------------------|--|
| ?-butyrolactone | <p>?? ?????????? ??? (2003-06-15) Notes: Class 3 - dangerous Ceiling, is a limit indicating the maximum concentration of a chemical substances in the breathing zone that should not be exceeded. 2 mg/m³ Form: vapor and/or gases</p> <p>MAK-Werte Liste TRK (2010-07-01) Notes: See Section IIb</p> <p>Tyoterveylaitos (2011-12-18) Notes: temporary Exposure limit 15 min 70 mg/m³ , 250 ppm</p> <p>Tyoterveylaitos (2011-12-18) Notes: temporary Exposure limit 8 h 14 mg/m³ , 50 ppm</p> <p>Arbejdstilsynet (1996-12-01) Notes: This substance is considered as organic solvent Time Weighted Average (TWA) , 50 ppm</p> |
| Carbon black | <p>EH40-WEL (1997-01-01) Short Term Exposure Limit value for a 15-minute reference period expressed in parts per million or in mg/m³. 7 mg/m³</p> <p>EH40-WEL (1997-01-01) Time Weighted Average (TWA) 3,5 mg/m³</p> |

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNEL/DMEL Summary

: Not available.

PNEC Summary

: Not available.

8.2 Exposure controls

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.



Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

- Physical state** : liquid



| | |
|---|---|
| Color | : Black. |
| Odor | : Not available. |
| Odor threshold | : Not available. |
| pH | : Not available. |
| Melting point/freezing point | : Not available. |
| Initial boiling point and boiling range | : Not available. |
| Flash point | : > 60 - 93 °C Not Measured. Flashpoint is estimated to be >60 to 93°C (>140 to 200°F). |
| Evaporation rate | : Not available. |
| Flammability (solid, gas) | : Not available. |
| Upper/lower flammability or explosive limits | : Lower: Not available. Upper: Not available. |
| Vapor pressure | : Not available. |
| Vapor density | : Not available. |
| Relative density | : 0,96 |
| Solubility(ies) | : Not available. |
| Partition coefficient: n-octanol/water | : Not available. |
| Auto-ignition temperature | : Not available. |
| Decomposition temperature | : Not available. |
| Viscosity | : Dynamic: Not available. Kinematic: Not available. |
| Explosive properties | : Not available. |
| Oxidizing properties | : Not available. |

9.2 Other information

| | |
|--------------------|---|
| Volatile. | : 92,5 %(m) Weight % 94,09 %(V) Volume % |
| VOC % | : 92,5 %(m) Weight % 94,09 %(V) Volume % |
| Coating VOC | : 7,37 lb/gal 883 g/l |

SECTION 10: Stability and reactivity

| | |
|--|--|
| 10.1 Reactivity | : No specific test data related to reactivity available for this product or its ingredients. |
| 10.2 Chemical stability | : The product is stable. |
| 10.3 Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur. |
| 10.4 Conditions to avoid | : No specific data. |
| 10.5 Incompatible materials | : No specific data. |
| 10.6 Hazardous decomposition products | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. |



SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|--|-----------|---------|--------------|----------|
| Butanolide, 4- | | | | |
| | LD50 Oral | Rat | 1.540 mg/kg | - |
| | LD50 Oral | Rat | 1.580 mg/kg | - |
| Diethylene Glycol Diethyl Ether | | | | |
| | LD50 Oral | Rat | 4.970 mg/kg | - |
| Carbon Black | | | | |
| | LD50 Oral | Rat | 15.400 mg/kg | - |
| Polymer Dispersant Additive, Proprietary 1 | | | | |
| | LD50 Oral | Rat | 750 mg/kg | - |

Conclusion/Summary : Not available.

Acute toxicity estimates

Not available.

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|--------------------------|--------------------------|---------|-------|----------|-------------|
| ?-butyrolactone | Skin - Severe irritant | Rabbit | - | | - |
| bis(2-ethoxyethyl) ether | Eyes - Moderate irritant | Rabbit | - | | - |

Conclusion/Summary

Skin : Not available.
Eyes : Not available.
Respiratory : Not available.

Sensitization

Conclusion/Summary

Skin : Not available.
Respiratory : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.



Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : Causes serious eye irritation.
Inhalation : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Ingestion : Irritating to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:
pain or irritation
watering
redness
Inhalation : No specific data.
Skin contact : No specific data.
Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Potential chronic health effects

Conclusion/Summary : Not available.

General : No known significant effects or critical hazards.
Carcinogenicity : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.
Teratogenicity : No known significant effects or critical hazards.
Developmental effects : No known significant effects or critical hazards.
Fertility effects : No known significant effects or critical hazards.



SECTION 12: Ecological information

12.1 Toxicity

| Product/ingredient name | Result | Species | Exposure |
|--------------------------|---|--------------|----------|
| bis(2-ethoxyethyl) ether | | | |
| | Acute LC50 10.000.000 µg/l Marine water | Fish - Bleak | 96 h |

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

12.4 Mobility in soil

Soil/water partition coefficient (KOC) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : P: Not available.
B: Not available.
T: Not available.

vPvB : vP: Not available.
vB: Not available.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.



Hazardous waste : Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
 : The classification of the product may meet the criteria for a hazardous waste.

Packaging

Methods of disposal : The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

| Regulatory information | Proper shipping name | UN - Number | Hazard classification | Packing group | Additional information |
|---------------------------|----------------------|-------------|-----------------------|---------------|---|
| ADN | Not classified. | | | - | |
| ADR | Not classified. | | | - | |
| IATA | Not classified. | | | - | |
| IMDG | Not classified. | | | - | |
| DOT (U.S.A.) (Pictograms) | Printing ink | UN1210 | Combustible liquid. | III | DOT Exception 49 CFR 173.150(f)(2): A material classed as a combustible liquid in a non-bulk packaging (<119 gallons; < 450 L) may be shipped as a non-hazardous material unless the combustible liquid is a hazardous substance, a hazardous waste, or a marine pollutant. |
| Mexico Classification | Not classified. | | | - | |
| TDG Class | Not classified. | | | - | |

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)
Annex XIV - List of substances subject to authorization
Annex XIV: None of the components are listed.

Substances of very high concern:
Other EU regulations



Europe inventory : Not determined.
 Integrated pollution prevention and control list (IPPC) - Air : Not listed
 Integrated pollution prevention and control list (IPPC) - Water : Not listed

Aerosol dispensers : Not applicable.

Seveso II Directive

This product is not controlled under the Seveso II Directive.

National regulations

References : - Guide de la loi et du règlement sur le transport des marchandises dangereuses au Canada. Centre de conformité international Ltée. 1986.

International regulations

Chemical Weapons Convention List Schedule I Chemicals : Not listed
 Chemical Weapons Convention List Schedule II Chemicals : Not listed
 Chemical Weapons Convention List Schedule III Chemicals : Not listed

15.2 Chemical Safety Assessment : This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Abbreviations and acronyms : ATE = Acute Toxicity Estimate
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
 DNEL = Derived No Effect Level
 DMEL = Derived Minimal Effect Level
 EUH statement = CLP-specific Hazard statement
 PBT = Persistent, Bioaccumulative and Toxic
 PNEC = Predicted No Effect Concentration
 RRN = REACH Registration Number
 vPvB = Very Persistent and Very Bioaccumulative

Key literature references and sources for data : - Guide de la loi et du règlement sur le transport des marchandises dangereuses au Canada. Centre de conformité international Ltée. 1986.

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification | Justification |
|-------------------------|--------------------|
| Eye Dam./Irrit. 2, H319 | Calculation method |
| Aquatic Chronic 3, H412 | Calculation method |



Full text of abbreviated H statements

| | |
|--------------------|---|
| H302 (oral) | Harmful if swallowed. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H315 | Causes skin irritation. |

Full text of classifications [CLP/GHS]

| | |
|----------------------------------|---|
| Acute Tox. 4, H302 | ACUTE TOXICITY (oral) - Category 4 |
| Aquatic Acute 1, H400 | AQUATIC HAZARD (ACUTE) - Category 1 |
| Aquatic Chronic 1, H410 | AQUATIC HAZARD (LONG-TERM) - Category 1 |
| Aquatic Chronic 3, H412 | AQUATIC HAZARD (LONG-TERM) - Category 3 |
| Eye Dam./Irrit. 1, H318 | SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 |
| Eye Dam./Irrit. 2, H319 | SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 |
| Skin Corr./Irrit. 2, H315 | SKIN CORROSION/IRRITATION - Category 2 |

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Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

