

Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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Version: 2.0

CNLM-3917

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|------|-----|-------|-----|
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| | | | |

| Product form | : Substance |
|--|---|
| Substance name | : URACIL (13C4, 99%; 15N2, 98%) |
| EC no | : 200-621-9 (Unlabeled) |
| CAS No | : 66-22-8 (Unlabeled) |
| Product code | : CNLM-3917 |
| Formula | : *C4H4O2*N2 |
| Synonyms | : 2,4-Dihydroxypyrimidine / 2,4-Pyrimidinediol / 2,4(1H,3H)-Pyrimidinedione |
| 1.2. Relevant identified uses of the sul | bstance or mixture and uses advised against |
| 1.2.1. Relevant identified uses | |
| Main use category | : Professional use |
| Industrial/Professional use spec | : For professional use only |
| 1.2.2. Uses advised against | |
| No additional information available | |
| 1.3. Details of the supplier of the safet | v data sheet |
| Cambridge Isotope Laboratories, Inc. 50 Frontage Road Andover, MA 01810 USA USA: 1-800-322-1174 Int: 1-978-749-8000 <u>cilsales@isotope.com</u> www.isotope.com | |
| Emergency telephone number | |
| Emergency numbers: | |
| Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hours) | |
| SECTION 2: Hazards identification | |
| 2.1. Classification of the substance or | mixture |
| Classification according to Regulation (EC) Not classified | No. 1272/2008 [CLP] |
| | |

Adverse physicochemical, human health and environmental effects No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] No labelling applicable

GHS-US labelling

No labelling applicable

2.3. Other hazards

No additional information available

28/09/2016

Safety Data Sheet according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 3: Composition/information on ingredients

| 3.1. Substance | | | |
|---|--|-----|---|
| Name | Product identifier | % | Classification according to Directive 67/548/EEC |
| URACIL (13C4, 99%; 15N2, 98%) (Main constituent) | (CAS No) 66-22-8 (Unlabeled) (EC no) 200-621-9 (Unlabeled) (EC index no) | 100 | Not classified |
| Name | Product identifier | % | Classification according to |
| Name | Flouderidentiner | 70 | Regulation (EC) No. 1272/2008 [CLP] |

Full text of R- and H-statements: see section 16

| Name | Product identifier | % | GHS-US classification |
|---|------------------------------|-----|-----------------------|
| URACIL (13C4, 99%; 15N2, 98%) (Main constituent) | (CAS No) 66-22-8 (Unlabeled) | 100 | Not classified |

Full text of H-statements: see section 16

| 3.2. Mixture | |
|---|---|
| Not applicable | |
| SECTION 4: First aid measures | |
| 4.1. Description of first aid measures | |
| First-aid measures general | : Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. |
| First-aid measures after inhalation | : If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician. |
| First-aid measures after skin contact | : Wash with soap and plenty of water. Consult a physician. |
| First-aid measures after eye contact | : Flush eyes with water as a precaution. |
| First-aid measures after ingestion | : Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. |
| 4.2. Most important symptoms and effect | ts, both acute and delayed |
| Symptoms/injuries after inhalation | : May be harmful if inhaled. May cause respiratory tract irritation. |
| Symptoms/injuries after skin contact | : May be harmful if absorbed through skin. May cause skin irritation. |
| Symptoms/injuries after eye contact | : May cause eye irritation. |
| Symptoms/injuries after ingestion | : May be harmful if swallowed. |
| 4.3. Indication of any immediate medical | attention and special treatment needed |
| No additional information available | |
| SECTION 5: Firefighting measures | |
| 5.1. Extinguishing media | |
| Suitable extinguishing media | : Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide. |
| 5.2. Special hazards arising from the sub | ostance or mixture |
| Reactivity | : Not available. |
| 5.3. Advice for firefighters | |
| Firefighting instructions | : Wear self contained breathing apparatus for fire fighting if necessary. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. |
| SECTION 6: Accidental release meas | sures |
| 6.1. Personal precautions, protective equ | uipment and emergency procedures |
| 6.1.1. For non-emergency personnel | |
| Emergency procedures | : Avoid dust formation. Avoid breathing vapors, mist or gas. |
| 6.1.2. For emergency responders | |
| No additional information available | |
| 6.2. Environmental precautions | |
| | o. Do not let product enter drains. Discharge into the environment must be avoided. |
| 6.3. Methods and material for containme | |
| For containment | : Sweep up and shovel. Keep in suitable, closed containers for disposal. |
| | |
| 28/09/2016 | EN (English) 2/6 |

Safety Data Sheet

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| 6.4. Reference to other sections | |
| No additional information available | |
| SECTION 7: Handling and storage | |
| 7.1. Precautions for safe handling | |
| Precautions for safe handling | : Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. |
| Hygiene measures | : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. |
| 7.2. Conditions for safe storage, inclu | ding any incompatibilities |
| Technical measures | : Keep container tightly closed in a cool, dry and well-ventilated place. |
| Storage conditions | : Store at room temperature away from light and moisture. |
| 7.3. Specific end use(s) | |
| No additional information available | |
| SECTION 8: Exposure controls/pe | rsonal protection |
| 8.1. Control parameters | |
| No additional information available | |
| 8.2. Exposure controls | |
| Appropriate engineering controls | : Handle in accordance with good industrial hygiene and safety practice. Wash hands before |
| | breaks and at the end of workday. |
| Personal protective equipment | : Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus. |
| | |
| Materials for protective clothing | : Wear suitable protective clothing and gloves. |
| Hand protection | : Wear suitable protective clothing and gloves. |
| Eye protection | : Wear safety glasses with side shields (or goggles) and a face shield. |
| Skin and body protection | : Choose body protection according to the amount and concentration of the dangerous substance at the work place. |
| Respiratory protection | : When appropriate, use NIOSH/CEN approved respirator. |
| Environmental exposure controls | : Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| SECTION 9: Physical and chemica | l properties |
| 9.1. Information on basic physical and | |
| Physical state | : Solid |
| Appearance | : Powder. |
| Molecular mass | : 118.04 g/mol (Labeled) |
| Colour | : White. |
| Odour | : No data available |
| Odour threshold | : No data available |
| pH | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : > 300 °C (> 572 °F) |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : No data available |
| Auto-ignition temperature | : No data available |

Solubility

Log Pow

Relative density

Decomposition temperature

Relative vapour density at 20 °C

Flammability (solid, gas) Vapour pressure No data availableNo data available

: No data available

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| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Explosive limits | : No data available |
| 9.2. Other information | |
| No additional information available | |
| SECTION 10: Stability and reactivity | |
| 10.1. Reactivity | |
| Not available. | |
| 10.2. Chemical stability | |
| Stable if stored under recommended conditions. | |
| 10.3. Possibility of hazardous reactions | |
| No additional information available | |
| 10.4. Conditions to avoid | |
| Not available. | |
| 10.5. Incompatible materials | |
| Strong oxidizing agent. | |
| 10.6. Hazardous decomposition products | |
| Carbon oxides (CO, CO2). Nitrogen oxides. | |
| SECTION 11: Toxicological information | on |
| 11.1. Information on toxicological effects | |
| Acute toxicity | : Not classified |
| URACIL (13C4, 99%; 15N2, 98%) (66-22-8 (Un | |
| LD50 oral rat | > 6000 mg/kg |
| Skin corrosion/irritation | : Not classified |
| Skill conosion/initiation Serious eye damage/irritation | : Not classified |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| Specific target organ toxicity (single exposure) | : Not classified |
| Specific target organ toxicity (repeated exposure) | : Not classified |
| Aspiration hazard | : Not classified |
| Potential adverse human health effects and symptoms | To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. |
| Symptoms/injuries after inhalation | : May be harmful if inhaled. May cause respiratory tract irritation. |
| Symptoms/injuries after skin contact | : May be harmful if absorbed through skin. May cause skin irritation. |
| Symptoms/injuries after eye contact | : May cause eye irritation. |
| Symptoms/injuries after ingestion | |
| Oymptomo/mjunes alter ingestion | : May be harmful if swallowed. |

| SECTI | ON 12: Ecological information |
|----------|-------------------------------|
| 12.1. | Toxicity |
| No addit | ional information available |
| | |
| 12.2. | Persistence and degradability |
| No addit | ional information available |
| 12.3. | Bioaccumulative potential |
| No addit | ional information available |
| 12.4. | Mobility in soil |
| | |
| No addit | ional information available |

Safety Data Sheet according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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| 12.5. Results of PBT and vPvB assess | ment |
| No additional information available | |
| 12.6. Other adverse effects | |
| No additional information available | |
| SECTION 13: Disposal considerat | ions |
| 13.1. Waste treatment methods | |
| Regional legislation (waste) | : Waste materials should be disposed of under conditions which meet Federal, State, and Local environmental control regulations. |
| Waste disposal recommendations | : Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. |
| Ecology - waste materials | : Dispose of as unused product. |
| SECTION 14: Transport information | bn |
| In accordance with ADR / RID / IMDG / IATA | / ADN |
| 14.1. UN number | |
| Not applicable | |
| 14.2. UN proper shipping name | |
| Not applicable | |
| | |
| 14.3. Additional information | |
| Other information | : No supplementary information available. |
| Special transport precautions | : DOT/IMDG/IATA: Not dangerous goods. |
| Overland transport No additional information available | |
| Transport by sea No additional information available | |
| Air transport | |
| No additional information available | |
| 14.4. Environmental hazards | |
| Other information | : No supplementary information available. |
| 14.5. Special precautions for user | |
| Special transport precautions | : DOT/IMDG/IATA: Not dangerous goods. |
| | |
| | nnex II of MARPOL 73/78 and the IBC Code |
| Not applicable | |
| SECTION 15: Regulatory informat | ion |
| 15.1. US Federal regulations | |
| No additional information available | |
| | |
| | |
| 15.2. International regulations | |
| | |

CANADA No additional information available

15.2.1. National regulations

| URACIL (13C4, 99%; 15N2, 98%) (66-22-8 (Unlabeled)) |
|---|
| Not listed on the Canadian IDL (Ingredient Disclosure List) |

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| 15.5. US State regulations | |
|---|---|
| URACIL (13C4, 99%; 15N2, 98%)(66-22-8 (Unlabeled) |) |
| State or local regulations | U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm. |

| : This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound. |
|--|
| : 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials. |
| : 0 - Materials that will not burn. |
| : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water. |
| |

| HMIS III Rating |
|-----------------|
| Health |
| Flammability |
| Physical |

: 0 Minimal Hazard - No significant risk to health

- : 0 Minimal Hazard
- : 0 Minimal Hazard

CIL Multi-Solvent Mixture SDS

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product