

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 27/01/2011 Revision date: 15/11/2019 Supersedes: 15/10/2014 Version: 3.0 DLM-1338

SECTION 1: Identification of the substance/mixture and of the company/undertaking **Product identifier** 1.1. Product form : Substance : BENZIDINE (RING-D8, 98%) Substance name EC Index-No. : 612-042-00-2 (Unlabeled) EC-No. : 202-199-1 (Unlabeled) CAS-No. : 92890-63-6 Product code : DLM-1338 Formula : C12H4D8N2 Synonyms : 4,4'-Diaminobiphenyl 1.2. Relevant identified uses of the substance or mixture and uses advised against 1.2.1. **Relevant identified uses** Main use category : Professional use : For professional use only Industrial/Professional use spec 1.2.2 Uses advised against No additional information available Details of the supplier of the safety data sheet 1.3. Cambridge Isotope Laboratories, Inc. 50 Frontage Road Andover, MA 01810 USA USA: 1-800-322-1174 Int: 1-978-749-8000 cilsales@isotope.com 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** Classification of the substance or mixture 2.1. Classification according to Regulation (EC) No. 1272/2008 [CLP] Acute Tox. 4 (Oral) H302 Carc. 1A H350 Aquatic Chronic 1 H410 Full text of hazard classes and H-statements : see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Xn; R22 Carc.Cat.1; R45 Carc.Cat.1; R49 N; R50/53 Full text of R-phrases: see section 16

GHS-US classification

Acute Tox. 4 (Oral) H302 Carc. 1A H350 Aquatic Chronic 1 H410 Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Liver, Kidney.

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

2.2. Label elements Labeling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) GHS07 GHS08 GHS09 Signal word (CLP) : Danger Hazard statements (CLP) : H302 - Harmful if swallowed H350 - May cause cancer (in contact with skin, if inhaled, if swallowed) H410 - Very toxic to aquatic life with long lasting effects Precautionary statements (CLP) P264 - Wash Both hands thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P273 - Avoid release to the environment. P280 - Wear protective clothing, protective gloves. P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. P308+P313 - IF exposed or concerned: Get medical advice/attention. P330 - Rinse mouth. P391 - Collect spillage. **GHS-US** labeling Hazard pictograms (GHS-US) GHS07 GHS09 GHS08 Signal word (GHS-US) : Danger Hazard statements (GHS-US) : H302 - Harmful if swallowed H350 - May cause cancer (Dermal, Inhalation, oral) H410 - Very toxic to aquatic life with long lasting effects Precautionary statements (GHS-US) : P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P264 - Wash Both hands thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P273 - Avoid release to the environment. P280 - Wear protective clothing, protective gloves. P301+P312 - If swallowed: Call a poison center or doctor if you feel unwell P308+P313 - If exposed or concerned: Get medical advice/attention. P330 - Rinse mouth. P391 - Collect spillage. P405 - Store locked up. P501 - Dispose of contents/container to Comply with applicable regulations Other hazards 2.3.

No additional information available OTION A.

SECTION 3: Composition/Informat	ion on ingredients		
3.1. Substances			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
BENZIDINE (RING-D8, 98%)	(CAS-No.) 92890-63-6 (EC-No.) 202-199-1 (Unlabeled) (EC Index-No.) 612-042-00-2 (Unlabeled)	100	Xn; R22 Carc.Cat.1; R45 Carc.Cat.1; R49 N; R50/53
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
BENZIDINE (RING-D8, 98%)	(CAS-No.) 92890-63-6 (EC-No.) 202-199-1 (Unlabeled) (EC Index-No.) 612-042-00-2 (Unlabeled)	100	Acute Tox. 4 (Oral), H302 Carc. 1A, H350 Aquatic Chronic 1, H410

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

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Name	Product identifier	%	GHS-US classification
BENZIDINE (RING-D8, 98%) (Main constituent)	(CAS-No.) 92890-63-6	100	Acute Tox. 4 (Oral), H302 Carc. 1A, H350 Aquatic Chronic 1, H410

Full text of H-phrases: see section 16

3.2. Mixtures	
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 eye with water for 15 minutes. Get medical attention.
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 effe	cts, both acute and delayed
Symptoms/effects after inhalation	: May be harmful if inhaled. May cause respiratory tract irritation.
Symptoms/effects after skin contact	: May be harmful if absorbed through skin. May cause skin irritation.
Symptoms/effects after eye contact	: May cause eye irritation.
Symptoms/effects after ingestion	: Harmful if swallowed.
4.3. Indication of any immediate medica	al 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 su	
Explosion hazard	 Hazardous decomposition products formed under fire conditions: Carbon oxides, nitrogen oxides (NOx).
5.3. Advice for firefighters	
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
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Protection during firefighting SECTION 6: Accidental release mea	
Protection during firefighting SECTION 6: Accidental release mea	isures
Protection during firefighting SECTION 6: Accidental release mea 6.1. Personal precautions, protective ed	isures
Protection during firefighting SECTION 6: Accidental release mea 6.1. Personal precautions, protective ed 6.1.1. For non-emergency personnel	Sures guipment and emergency procedures : Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas.
Protection during firefighting SECTION 6: Accidental release mea 6.1. Personal precautions, protective ec 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders	Sures guipment and emergency procedures : Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas.
Protection during firefighting SECTION 6: Accidental release means 6.1. Personal precautions, protective experiments 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders No additional information available 6.2. Environmental precautions	Sures guipment and emergency procedures : Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas.
Protection during firefighting SECTION 6: Accidental release means 6.1. Personal precautions, protective experiments 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders No additional information available 6.2. Environmental precautions	Sures pulpment and emergency procedures : Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. so. Do not let product enter drains. Discharge into the environment must be avoided.
Protection during firefighting SECTION 6: Accidental release means 6.1. Personal precautions, protective experiments 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders No additional information available 6.2. Environmental precautions Prevent further leakage or spillage if safe to do additional information available	Sures pulpment and emergency procedures : Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. so. Do not let product enter drains. Discharge into the environment must be avoided.
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Protection during firefighting SECTION 6: Accidental release mea 6.1. Personal precautions, protective ed 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders No additional information available 6.2. Environmental precautions Prevent further leakage or spillage if safe to do so 6.3. Methods and material for containment	 Sures Sures Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. so. Do not let product enter drains. Discharge into the environment must be avoided. ent and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable,
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Protection during firefighting SECTION 6: Accidental release means 6.1. Personal precautions, protective experiments 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders No additional information available 6.2. Environmental precautions Prevent further leakage or spillage if safe to do set to other sections For containment 6.4. Reference to other sections No additional information available SECTION 7: Handling and storage	 Sures Sures Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. so. Do not let product enter drains. Discharge into the environment must be avoided. ent and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable,
Protection during firefighting SECTION 6: Accidental release means 6.1. Personal precautions, protective experiment 6.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders No additional information available 6.2. Environmental precautions Prevent further leakage or spillage if safe to do a 6.3. Methods and material for containeer For containment 6.4. Reference to other sections No additional information available	ISURES quipment and emergency procedures : Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. so. Do not let product enter drains. Discharge into the environment must be avoided. ent and cleaning up : Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal. : Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire
Protection during firefighting SECTION 6: Accidental release mea 6.1. Personal precautions, protective ed 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders No additional information available 6.2. Environmental precautions Prevent further leakage or spillage if safe to do a 6.3. Methods and material for contains For containment 6.4. Reference to other sections No additional information available SECTION 7: Handling and storage 7.1. Precautions for safe handling	SUICES pulpment and emergency procedures : Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. so. Do not let product enter drains. Discharge into the environment must be avoided. ent and cleaning up : Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal. : Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate

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7.2. Conditions for safe storage, include	ling any incompatibilities
Technical measures	: Keep container tightly closed in a 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/per	sonal protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	
Appropriate engineering controls	: Wash hands and other exposed areas with mild soap and water before eating, drinking or
	smoking and when leaving work.
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.
SECTION 9: Physical and chemical	properties
9.1. Information on basic physical and	chemical properties
Physical state	: Solid
Appearance	: Powder
Molecular mass	: 192.3 g/mol (Labeled)
Color	: Beige
Odor	: No data available
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: 127 °C (261 °F)
Freezing point	: No data available
Boiling point	: 400 °C (752 °F) at 1,013 hPa (760 mmHg)
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: 1.25 g/cm ³ at 20 °C (68 °F)
Solubility	: No data available
_og Pow	: 1.34
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available

Oxidizing properties : No data available Explosion limits : No data available

9.2. Other information

No additional information available

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SECTION 10: Stability and reactivity			
10.1. Reactivity			
No additional information 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			
No additional information available			
10.5. Incompatible materials			
Strong oxidizing agents.			
10.6. Hazardous decomposition products			
Formed under fire conditions: Carbon oxides, Nitro	ogen oxides.		
SECTION 11: Toxicological information	on		
11.1. Information on toxicological effects			
Acute toxicity	: Oral: Harmful if swallowed.		
BENZIDINE (RING-D8, 98%) (92890-63-6)			
LD50 oral rat	309 mg/kg		
ATE CLP (oral)	309.000 mg/kg body weight		
Skin corrosion/irritation	: Not classified		
Serious eye damage/irritation	: Not classified		
Respiratory or skin sensitization	: Not classified		
Germ cell mutagenicity	: Not classified		
Carcinogenicity	: Repeated absorption may result in bladdar tumors. This is or contains a component that has been reported to be carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification. Human Carcinogen.		
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	: Liver injury may occur. Kidney injury may occur. Blood disorders. Nausea. Vomiting. 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.		
IARC group	: 1		
Symptoms/effects after inhalation	: May be harmful if inhaled. May cause respiratory tract irritation.		
Symptoms/effects after skin contact	: May be harmful if absorbed through skin. May cause skin irritation.		
Symptoms/effects after eye contact	: May cause eye irritation.		
Symptoms/effects after ingestion	: Harmful if swallowed.		

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general :	Very toxic to aquatic life with long lasting effects.
BENZIDINE (RING-D8, 98%) (92890-63-6)	
LC50 fish 1	7.4 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
BENZIDINE (RING-D8, 98%) (92890-63-6)	

BENZIDINE (RING-D8, 98%) (92890-63-6)		
	Bioconcentration factor (BCF REACH)	83 Leuciscus idus (Golden orfe) - 3 d
	Log Pow	1.34

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12.4.	Mobility in soil			
No additional information available				
12.5.	Results of PBT and vPvB assessmen	t		
No add	itional information available			
12.6.	Other adverse effects			
Other a	dverse effects	: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.		

SECTION 13: Disposal considerations			
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.		
Product/Packaging 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	
In accordance with ADR / RID / IMDG / IATA / A	ADN
14.1. UN number	
UN-No.(DOT)	: UN1885
DOT NA no.	UN1885
14.2. UN proper shipping name	
Proper Shipping Name (DOT)	: Benzidine
Class (DOT)	: 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132
Hazard labels (DOT)	: 6.1 - Poison
	POISON 6
Packing group (DOT)	: II - Medium Danger
DOT Special Provisions (49 CFR 172.102)	 IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2). IP2 - When IBCs other than metal or rigid plastics IBCs are used, they must be offered for transportation in a closed freight container or a closed transport vehicle. IP4 - Flexible, fiberboard or wooden IBCs must be sift-proof and water-resistant or be fitted with a sift-proof and water-resistant liner. T3 - 2.65 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 153
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 212
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
DOT RQ	: 1 lbs
Marine pollutant	: No
	¥2

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14.3. Additional information	
Other information	: No supplementary information available.
Overland transport	
Packing group (ADR)	: 11
Class (ADR)	: 6.1 - Toxic substances
Hazard identification number (Kemler No.)	: 60
Classification code (ADR)	: T2
Hazard labels (ADR)	: 6.1 - Toxic substances
	6
Orange plates	60 1885
Tunnel restriction code (ADR)	: D/E
Limited quantities (ADR)	500g
EAC	: 2Z
Excepted quantities (ADR)	: E4
Transport by sea	
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
MFAG-No	: 153
Air transport	
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 25 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 100 kg
Civil Aeronautics Law	: Toxic and infectious substances/Toxic substances
14.4. Environmental hazards	
Dangerous for the environment	:
Other information	: No supplementary information available.
14.5. Special precautions for user	
14.6. Transport in bulk according to Anno	ex II of MARPOL 73/78 and the IBC Code
Not applicable	
SECTION 15: Regulatory information	
SECTION 15: Regulatory information	

ocorrow to: Regulatory mormation		
15.1. US Federal regulations		
BENZIDINE (RING-D8, 98%) (92890-63-6)		
SARA Section 302 Threshold Planning Quantity (TPQ)	Subject to reporting requirements of United States SARA Section 302	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard	
SARA Section 313 - Emission Reporting	Subject to reporting requirements of United States SARA Section 313	

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15.2. International regulations	
CANADA	
BENZIDINE (RING-D8, 98%) (92890-63-6)	
Listed on the Canadian DSL (Domestic Substances List)	

15.2.1. National regulations

No additional information available

15.3. US State regulations			
BENZIDINE (RING-D8, 98%)(92890-63-6)			
U.S California - Proposition 65 - Carcinogens List	Yes		
U.S California - Proposition 65 - Developmental Toxicity	No		
U.S California - Proposition 65 - Reproductive Toxicity - Female	No		
U.S California - Proposition 65 - Reproductive Toxicity - Male	No		
State or local regulations	U.S Massachusetts - Right To Know List U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List		

SECTION 16: Other information

Other information

: 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.

Full text of R-, H- and EUH-phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Carc. 1A	Carcinogenicity Category 1A
H302	Harmful if swallowed
H350	May cause cancer
H410	Very toxic to aquatic life with long lasting effects
R22	Harmful if swallowed
R45	May cause cancer
R49	May cause cancer by inhalation
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
Ν	Dangerous for the environment
Xn	Harmful

NFPA health hazard	 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury. 0. Materials that will not hum under trained fire conditions. 	
NFPA life hazaru	: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.	
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.	
Hazard Rating		
Health	: 2 Moderate Hazard - Temporary or minor injury may occur	
Flammability	: 0 Minimal Hazard	
Physical	: 0 Minimal Hazard	

CIL Substance 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