

Material Safety Data Sheet

Printing date 10/28/2008

Reviewed on 10/27/2008

* 1 Identification of substance:

· **Product details:**· **Trade name:** Iodoacetamide· **Catalog or product number:** 1632109, 9703991, 9704850· **Application of the substance / the preparation** Laboratory chemicals· **Manufacturer/Supplier:**

Bio-Rad Laboratories, Life Science Group

2000 Alfred Nobel Drive

Hercules, California 94547

(510)741-1000

· **Information department:** Technical services, customer support.· **Emergency information:**

1(800)424-9300 Use only in the event of a CHEMICAL EMERGENCY involving a SPILL, LEAK, FIRE, EXPLOSION or ACCIDENT.

510-741-1000

* 2 Composition/Information on components:

· **Chemical characterization:**· **CAS No. Description:**

144-48-9 2-iodoacetamide

· **Identification number(s):**· **EINECS Number:** 205-630-1· **Additional information:** For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

· **Emergency overview:**

Toxic by ingestion.

Toxic by dermal absorption.

Toxic by inhalation.

Irritant to skin.

Sensitizer by dermal contact.

Sensitizer by inhalation.

Contains a component that may be fetotoxic and/or teratogenic.

Irritant to respiratory system and skin.

T Toxic

· **Routes of exposure:**

Ingestion

Inhalation

Skin

· **Information pertaining to particular dangers for man and environment**

R 61 May cause harm to the unborn child

R 23/24/25 Also toxic by inhalation, in contact with skin and if swallowed.

R 42/43 May cause sensitization by inhalation and skin contact.

· **Classification system**

The classification was made according to OSHA 29CFR 1910.1200 and 1910.1030, and is expanded upon from company and/or literature information.

· **GHS label elements**Skull and crossbones **Danger**

3.1/3 - Toxic if swallowed.

3.1/3 - Toxic in contact with skin.

3.1/3 - Toxic if inhaled.

3.4/1 - May cause an allergic skin reaction.

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Health hazard Danger

3.4/1 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

3.7/1A - May damage fertility or the unborn child.

Prevention:

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection.

Use personal protective equipment as required.

In case of inadequate ventilation wear respiratory protection.

Response:

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

IF ON SKIN: Wash with plenty of soap and water.

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

IF exposed or concerned: Get medical advice/attention.

Call a POISON CENTER or doctor/physician.

Call a POISON CENTER or doctor/physician if you feel unwell.

Specific treatment (see label).

Specific measures (see label).

Rinse mouth.

If skin irritation or rash occurs: Get medical advice/attention.

If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Remove/Take off immediately all contaminated clothing.

Wash contaminated clothing before reuse.

Storage:

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Disposal:

Dispose of contents/container in accordance with local/regional/national/international regulations.

4 First aid measures**General information**

Immediately remove any clothing soiled by the product.

Remove breathing apparatus only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

After inhalation

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact Immediately wash with water and soap and rinse thoroughly.**After eye contact** Rinse opened eye for several minutes under running water. Then consult a doctor.**After swallowing** Do not induce vomiting; immediately call for medical help.**Information for doctor****The following symptoms may occur:** Breathing difficulty

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5 Fire fighting measures

- **Suitable extinguishing agents** CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:**
 - Mount respiratory protective device.
 - Wear self-contained respiratory protective device.

6 Accidental release measures

- **Person-related safety precautions:** Not required
- **Measures for environmental protection:** No special measures required.
- **Measures for cleaning/collecting:**
 - Dispose contaminated material as waste according to item 13.
 - Ensure adequate ventilation.

7 Handling and storage

- **Handling**
- **Information for safe handling:**
 - Thorough dedusting.
 - Ensure good ventilation/exhaustion at the workplace.
 - Open and handle receptacle with care.
 - Prevent formation of dust.
 - No special precautions are necessary if used correctly.
- **Information about protection against explosions and fires:** Keep respiratory protective device available.
- **Storage**
- **Requirements to be met by storerooms and receptacles:** According to product specification
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures**
 - Keep away from foodstuffs, beverages and feed.
 - Immediately remove all soiled and contaminated clothing
 - Wash hands before breaks and at the end of work.
 - Store protective clothing separately.
 - Avoid contact with the eyes and skin.
- **Breathing equipment:**
 - In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:** Protective gloves.
- **Material of gloves** Synthetic gloves

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USA

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· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Safety glasses**9 Physical and chemical properties:**· **General Information**

Form:	Solid.
Color:	Whitish
Odor:	Odorless

· **Change in condition****Melting point/Melting range:** 92-95°C**Boiling point/Boiling range:** undetermined· **Flash point:** Not applicable· **Flammability (solid, gaseous)** Product is not flammable.· **Danger of explosion:** Product does not present an explosion hazard.· **Density at 20°C:** 1 g/cm³· **Solubility in / Miscibility with****Water:** Insoluble· **Organic solvents:** 0.0 %**10 Stability and reactivity**· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.· **Dangerous reactions** No dangerous reactions known· **Dangerous products of decomposition:** No dangerous decomposition products known**11 Toxicological information**· **Acute toxicity:**· **Primary irritant effect:**· **on the skin:** Irritant to skin and mucous membranes.· **on the eye:** Irritant effect.· **Sensitization:**

Sensitization possible through inhalation.

Sensitization possible through skin contact.

· **Target organs:**

Skin.

Respiratory tract.

USA

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13 Disposal considerations

- **Product:**
- **Recommendation**
Hand over to hazardous waste disposers.
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **DOT regulations:**
- **Hazard class:** 6.1
- **Identification number:** UN2811
- **Packing group:** III
- **Proper shipping name (technical name):** TOXIC SOLID, ORGANIC, N.O.S. (2-iodoacetamide)
- **Label** 6.1
- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** 6.1 Toxic substances
- **Danger code (Kemler):** 60
- **UN-Number:** 2811
- **Packing group:** III
- **Label** 6.1
- **Description of goods:** 2811 TOXIC SOLID, ORGANIC, N.O.S. (2-iodoacetamide)
- **Maritime transport IMDG:**
- **IMDG Class:** 6.1
- **UN Number:** 2811
- **Label** 6.1
- **Packing group:** III
- **Marine pollutant:** No
- **Proper shipping name:** TOXIC SOLID, ORGANIC, N.O.S. (2-iodoacetamide)
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** 6.1
- **UN/ID Number:** 2811
- **Label** 6.1
- **Packing group:** III
- **Proper shipping name:** TOXIC SOLID, ORGANIC, N.O.S. (2-iodoacetamide)
- **UN "Model Regulation":** UN2811; TOXIC SOLID, ORGANIC, N.O.S.; 6.1; III

15 Regulations

- **SARA (Superfund Amendments and Reauthorization Act of 1986 - USA)**

- **Section 302/304 (40CFR355.30 / 40CFR355.40):**

Substance not listed.

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· **Section 313 (40CFR372.65):**

Substance is not listed.

· **TSCA (Toxic Substances Control Act):**

Substance is listed.

· **Carcinogenicity categories**· **EPA (Environmental Protection Agency)**

Substance is not listed.

· **IARC (International Agency for Research on Cancer)**

Substance is not listed.

· **NTP (National Toxicology Program)**

Substance is not listed.

· **TLV (Threshold Limit Value established by ACGIH)**

Substance is not listed.

· **MAK (German Maximum Workplace Concentration)**

Substance is not listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

Substance is not listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

Substance is not listed.

· **Markings according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials

· **Code letter and hazard designation of product:**

T Toxic

· **Risk phrases:**

61 May cause harm to the unborn child

23/24/25 Also toxic by inhalation, in contact with skin and if swallowed.

42/43 May cause sensitization by inhalation and skin contact.

· **Safety phrases:**

22 Do not breathe dust.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

45 In case of accident or if you feel unwell, seek medical advice immediately.

60 This material and its container must be disposed of as hazardous waste.

· **National regulations**

Class	Share in %
I	50-100

16 Other information:

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing MSDS:** Environmental Health and Safety.

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· Contact:

Life Science Group, Environmental Health and Safety, 2000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 741-1000

Diagnostic Group, Environmental Health and Safety, 4000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 724-7000

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Reglement internationale concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

· * Data compared to the previous version altered.