# Diazepam (cas 439-14-5) MSDS

1 - Product and Company Information

**Product Name** DIAZEPAM DEA SCHEDULE IV ITEM  
**Product Number** D0899

2 - Composition/Information on Ingredients

<table>
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<tr>
<th>Product Name</th>
<th>CAS #</th>
<th>EC no</th>
<th>Annex I</th>
<th>Index Number</th>
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<tr>
<td>DIAZEPAM</td>
<td>439-14-5</td>
<td>207-122-5</td>
<td>None</td>
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**Formula** C16H13ClN2O  
**Molecular Weight** 284.7 AMU

**Synonyms**  
Alboral * Aliseum * Amiprol * An-Ding *  
Ansiolisin * Aparin * Apozepam * Asiwei *  
Atensine * Atlen * Bialzepam * Calmocitene *  
Calmose * Cerene * Ceregular *  
7-Chloro-1,3-dihydro-1-methyl-5-phenyl-2H-1,4-benzodiazepin-2-one (IUPAC) *  
7-Chloro-1-methyl-2-oxo-5-phenyl-3H-1,4-benzodiazepine *  
7-Chloro-1-methyl-5-phenyl-3H-1,4-benzodiazepin-2 (1H)-one *  
7-Chloro-1-methyl-5-phenyl-1,3-dihydro-2H-1,4-benzodiazepin-2-one * Cristalia * Diapam *  
Diazemuls * Diazepam * Diazepamu (Polish) *  
Diazetard * Dienenax * Diponeza * Domalium *  
Duxen * Eridan * Faustan * Freudal * Horizon *  
Kabivitrum * Katrium * LA-111 * Lembrol *  
Leverum * Liberetas * Methyl diazepinone *  
1-Methyl-5-phenyl-7-chloro-1,3-dihydro-2H-1,4-benzodiazepin-2-one * Mrosan * Noan * NSC-77518 *  
Paxate * Pavel * Quievita * Relaminal * Relanium *  
Renborin * Ro 5-2807 * Saromet * Sedipam *  
Seduxen * Serenamin * Serenan * Setonil *  
Sibazon * Sonacon * Stesolid * Stesolin *

3 - Hazards Identification

**SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT**
May cause harm to the unborn child. Harmful in contact with skin and if swallowed. Possible risk of impaired fertility. Possible risk of irreversible effects.

4 - First Aid Measures

**AFTER INHALATION**
If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

**AFTER SKIN CONTACT**
In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

**AFTER EYE CONTACT**
In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by
separating the eyelids with fingers. Call a physician.

AFTER INGESTION
If swallowed, wash out mouth with water provided person is conscious. Call a physician.

5 - Fire Fighting Measures

EXTINGUISHING MEDIA
Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

SPECIAL RISKS
Specific Hazard(s): Emits toxic fumes under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6 - Accidental Release Measures

PERSONAL PRECAUTION PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL
Evacuate area.

PROCEDURE(S) OF PERSONAL PRECAUTION(S)
Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP
Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

7 - Handling and Storage

HANDLING
Directions for Safe Handling: Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

STORAGE
Conditions of Storage: Keep tightly closed.

8 - Exposure Controls / Personal Protection

SIGMA - D0899 www.-aldrich.com ENGINEERING CONTROLS
Mechanical exhaust required. Safety shower and eye bath.

GENERAL HYGIENE MEASURES
Wash thoroughly after handling.

PERSONAL PROTECTIVE EQUIPMENT

9 - Physical and Chemical Properties

Appearance Physical State: Solid
Color: White

Property Value At Temperature or Pressure

pH N/A
10 - Stability and Reactivity

STABILITY
Stable: Stable.
Materials to Avoid: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS
Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Nitrogen oxides, hydrogen chloride gas.

HAZARDOUS POLYMERIZATION
Hazardous Polymerization: Will not occur

11 - Toxicological Information

RTECS NUMBER: DF1575000

ACUTE TOXICITY

SIGMA - D0899 www.-aldrich.com LD50
Oral
Rat
249 mg/kg

LD50
Intraperitoneal
Rat
46500 UG/KG

LD50
Subcutaneous
Rat
6350 UG/KG

LD50
Intravenous
Rat
32 MG/KG

LD50
Parenteral
Rat
131 MG/KG

LD50
Rectal
Rat
600 MG/KG

LD50
Oral
Mouse
48 mg/kg

LD50
Skin
Mouse
800 mg/kg

LD50
Intraperitoneal
Mouse
37 MG/KG

LD50
Subcutaneous
Mouse
800 MG/KG

LD50
Intravenous
Mouse
25 MG/KG

LD50
Intramuscular
Mouse
65 MG/KG

LD50
Parenteral

SIGMA - D0899 www.-aldrich.com Mouse
80 MG/KG

LD50
Rectal
Mouse
500 MG/KG

LD50
Parenteral
Dog
>800 MG/KG

LD50
Oral
rabbit
328 mg/kg

LD50
Intravenous
Rabbit
9 MG/KG
Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste): Eye: Other. Behavioral: Altered sleep time (including
change in righting reflex. Behavioral: Rigidity (includes catalepsy).

LD50
Oral
Mammal
500 mg/kg

SIGN AND SYMPTOMS OF EXPOSURE
Prolonged or repeated exposure can lead to habituation or addiction. Exposure can cause: CNS depression. Gastrointestinal disturbances. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

ROUTE OF EXPOSURE
Skin Contact: May cause skin irritation.
Skin Absorption: Harmful if absorbed through skin.
Eye Contact: May cause eye irritation.
Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.
Ingestion: Harmful if swallowed.

TARGET ORGAN INFORMATION
Central nervous system.

CHRONIC EXPOSURE - CARCINOGEN
Result: This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

Mouse Mouse
Route of Application: Oral Oral
Exposure Time: 80W 80W

SIGMA - D0899 www.-aldrich.com IARC CARCINOGEN LIST
Rating: Group 3

CHRONIC EXPOSURE - MUTAGEN
Result: Laboratory experiments have shown mutagenic effects.

Woman Woman
328 MG/KG 328 MG/KG
Unreported Unreported
78W 78W
Cytogenetic analysis Cytogenetic analysis

Human Human
10 MG/L 10 MG/L
Cell Type: Leukocyte Leukocyte
Cytogenetic analysis Cytogenetic analysis

Human Human
25 MG/L 25 MG/L
Cell Type: Lymphocyte Lymphocyte
SLN SLN

Rat Rat
25 MG/KG 25 MG/KG
Subcutaneous Subcutaneous
5D 5 Other mutation test systems Other mutation test systems
Mouse Mouse
40 MG/KG 40 MG/KG
Oral Oral
24H 24H
Micronucleus test Micronucleus test

Mouse Mouse
200 MG/KG 200 MG/KG
Cell Type: S. typhimurium S. typhimurium
Body fluid assay Body fluid assay

Mouse Mouse
326 MG/KG 326 MG/KG
Oral Oral
15D 15 Dominant lethal test Dominant lethal test

Mouse Mouse
300 MG/KG 300 MG/KG
Oral Oral
15D 15 sperm sperm

Hamster Hamster
10 MG/L 10 MG/L
Cell Type: lung lung
Micronucleus test Micronucleus test

Hamster Hamster
30 MG/L 30 MG/L
Cell Type: Embryo Embryo
Morphological transformation. Morphological transformation.

SIGMA- D0899 www.-aldrich.com Hamster Hamster
100 MG/L 100 MG/L
Cell Type: Embryo Embryo
Other mutation test systems Other mutation test systems

Hamster Hamster
100 MG/L 100 MG/L
Cell Type: Embryo Embryo
Cytogenetic analysis Cytogenetic analysis

Hamster Hamster
15 MG/L 15 MG/L
Cell Type: fibroblast fibroblast
Cytogenetic analysis Cytogenetic analysis

Hamster Hamster
1 GM/L 1 GM/L
27H 27H
Cell Type: lung lung
Cytogenetic analysis Cytogenetic analysis

Hamster Hamster
100 MG/L 100 MG/L
Cell Type: fibroblast fibroblast
SLN SLN

Hamster Hamster
100 MG/L 100 MG/L
Cell Type: Embryo Embryo
SLN SLN
CHRONIC EXPOSURE - TERATOGEN
Result: May cause congenital malformation in the fetus.

Species: Woman Woman
Dose: 11600 UG/KG 11600 UG/KG
Route of Application: Oral Oral
Exposure Time: (43D PREG) (43D PREG)
Result: Specific Developmental Abnormalities: Craniofacial (including nose and tongue). Specific Developmental Abnormalities: Craniofacial (including nose and tongue).

Species: Woman Woman
Dose: 5 MG/KG 5 MG/KG
Route of Application: Oral Oral
Exposure Time: (36W PREG) (36W PREG)
Result: Specific Developmental Abnormalities: Cardiovascular (circulatory) system. Specific Developmental Abnormalities: Cardiovascular (circulatory) system.

Species: Woman Woman
Dose: 400 UG/KG 400 UG/KG
Route of Application: Intravenous Intravenous
Exposure Time: (39W PREG) (39W PREG)
Result: Specific Developmental Abnormalities: Cardiovascular (circulatory) system. Specific Developmental Abnormalities: Cardiovascular (circulatory) system.

SIGMA - D0899 www.-aldrich.com Species: Rat Rat
Dose: 5 GM/KG 5 GM/KG
Route of Application: Oral Oral
Exposure Time: (6-17D PREG) (6-17D PREG)
Result: Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants). Specific Developmental Abnormalities: Musculoskeletal system. Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants). Specific Developmental Abnormalities: Musculoskeletal system.

Species: Rat Rat
Dose: 12500 UG/KG 12500 UG/KG
Route of Application: Intraperitoneal Intraperitoneal
Exposure Time: (16-20D PREG) (16-20D PREG)

Species: Mouse Mouse
Dose: 100 MG/KG 100 MG/KG
Route of Application: Oral Oral
Exposure Time: (12D PREG) (12D PREG)
Result: Specific Developmental Abnormalities: Craniofacial (including nose and tongue). Specific Developmental Abnormalities: Craniofacial (including nose and tongue).
Dose: 45 MG/KG
Route of Application: Subcutaneous
Exposure Time: (9D PREG) (9D PREG)
Result: Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Effects on Embryo or Fetus: Fetal death. Specific Developmental Abnormalities: Central nervous system.

Species: Mouse
Dose: 2700 UG/KG 2700 UG/KG
Route of Application: Intramuscular
Exposure Time: (11D PREG) (11D PREG)
Result: Specific Developmental Abnormalities: Central nervous system. Specific Developmental Abnormalities: Central nervous system.

Species: Mouse
Dose: 400 MG/KG 400 MG/KG
Route of Application: Unreported
Exposure Time: (13D PREG) (13D PREG)
Result: Specific Developmental Abnormalities: Craniofacial (including nose and tongue). Specific Developmental Abnormalities: Craniofacial (including nose and tongue).

Species: Rabbit
Dose: 650 MG/KG 650 MG/KG
Route of Application: Oral
Exposure Time: (6-18D PREG) (6-18D PREG)
Result: Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).

Species: Rabbit
Dose: 325 MG/KG 325 MG/KG
Route of Application: Oral
Exposure Time: (6-18D PREG) (6-18D PREG)
Result: Specific Developmental Abnormalities: Musculoskeletal system. Specific Developmental Abnormalities: Musculoskeletal system.

Species: Hamster
Dose: 300 MG/KG 300 MG/KG
Route of Application: Oral
Exposure Time: (8D PREG) (8D PREG)

Species: Hamster
Dose: 700 MG/KG 700 MG/KG
Route of Application: Oral
Exposure Time: (10D PREG) (10D PREG)
Result: Effects on Embryo or Fetus: Fetotoxicity (except death,
e.g., stunted fetus). Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).

Species: Hamster Hamster
Dose: 280 MG/KG 280 MG/KG
Route of Application: Intraperitoneal Intraperitoneal
Exposure Time: (8D PREG) (8D PREG)

Species: Hamster Hamster
Dose: 100 MG/KG 100 MG/KG
Route of Application: Intravenous Intravenous
Exposure Time: (11D PREG) (11D PREG)

Species: Hamster Hamster
SIGMA - D0899 www.-aldrich.com Dose: 100 MG/KG 100 MG/KG
Route of Application: Intravenous Intravenous
Exposure Time: (10D PREG) (10D PREG)
Result: Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).

CHRONIC EXPOSURE - REPRODUCTIVE HAZAR Result: Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.

Species: Woman Woman
Dose: 22800 UG/KG 22800 UG/KG
Route of Application: Oral Oral
Exposure Time: (25-36W PREG) (25-36W PREG)

Species: Rat Rat
Dose: 10500 MG/KG 10500 MG/KG
Route of Application: Oral Oral
Exposure Time: (14D PRE/1-7D PREG) (14D PRE/1-7D PREG)
Result: Effects on Fertility: Mating performance (e.g., # sperm positive females per # females mated; # copulations per # estrus cycles). Effects on Fertility: Female fertility index (e.g., # females pregnant per # sperm positive females; # females pregnant per # females mated ). Effects on Fertility: Mating performance (e.g., # sperm positive females per # females mated; # copulations per # estrus cycles). Effects on Fertility: Female fertility index (e.g., # females pregnant per # sperm positive females; # females pregnant per # females mated ).

Species: Rat Rat
Dose: 675 MG/KG 675 MG/KG
Route of Application: Oral Oral
Exposure Time: (17-22D PREG/21D POST) (17-22D PREG/21D POST)
Result: Effects on Newborn: Viability index (e.g., # alive at day 4 per # born alive). Effects on Newborn: Growth statistics (e.g., reduced weight gain). Effects on Newborn: Viability index (e.g., # alive at day 4 per # born alive). Effects on Newborn: Growth statistics (e.g., reduced weight gain).
Species: Rat Rat  
Dose: 40 MG/KG 40 MG/KG  
Route of Application: Oral Oral  
Exposure Time: (13-20D PREG) (13-20D PREG)  
Result: Effects on Newborn: Growth statistics (e.g., reduced weight gain). Effects on Newborn: Behavioral. Effects on Newborn: Growth statistics (e.g., reduced weight gain). Effects on Newborn: Behavioral.

Species: Rat Rat  
Dose: 40 MG/KG 40 MG/KG  
Route of Application: Oral Oral  
Exposure Time: (13-20D PREG) (13-20D PREG)  
Result: Effects on Newborn: Growth statistics (e.g., reduced weight gain). Effects on Newborn: Behavioral. Effects on Newborn: Growth statistics (e.g., reduced weight gain). Effects on Newborn: Behavioral.

Species: Rat Rat  
Dose: 220 MG/KG 220 MG/KG  
Route of Application: Oral Oral  
Exposure Time: (1-22D PREG) (1-22D PREG)  

Species: Rat Rat  
Dose: 14 GM/KG 14 GM/KG  
Route of Application: Oral Oral  
SIGMA - D0899 www.-aldrich.com Exposure Time: (35D MALE) (35D MALE)  

Species: Rat Rat  
Dose: 2800 UG/KG 2800 UG/KG  
Route of Application: Subcutaneous Subcutaneous  
Exposure Time: (15-21D PREG) (15-21D PREG)  
Result: Effects on Newborn: Viability index (e.g., # alive at day 4 per # born alive). Effects on Newborn: Behavioral. Effects on Newborn: Viability index (e.g., # alive at day 4 per # born alive). Effects on Newborn: Behavioral.
Species: Rat Rat
Dose: 20 MG/KG 20 MG/KG
Route of Application: Subcutaneous Subcutaneous
Exposure Time: (13-20D PREG) (13-20D PREG)

Species: Rat Rat
Dose: 10 MG/KG 10 MG/KG
Route of Application: Subcutaneous Subcutaneous
Exposure Time: (8-14D PREG) (8-14D PREG)
Result: Effects on Newborn: Growth statistics (e.g., reduced weight gain). Effects on Newborn: Behavioral. Effects on Newborn: Behavioral.

SIGMA - D0899 www.-aldrich.com Species: Rat Rat
Dose: 42 MG/KG 13750 UG/KG
Route of Application: Subcutaneous Parenteral
Exposure Time: (1-21D POST) (14-20D PREG)

Species: Rat Mouse
Dose: 13750 UG/KG 504 MG/KG
Route of Application: Parenteral Oral
Exposure Time: (14-20D PREG) (1-21D PREG/21D POST)
Result: Effects on Newborn: Delayed effects. Effects on Newborn: Behavioral.

Species: Mouse Mouse
Dose: 504 MG/KG 2 GM/KG
Route of Application: Oral Oral
Exposure Time: (1-21D PREG/21D POST) (5D MALE/15D PRE)
Result: Effects on Fertility: Mating performance (e.g., # sperm positive females per # females mated; # copulations per # estrus cycles). Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants).

Species: Mouse Mouse
Dose: 2 GM/KG 140 MG/KG
Route of Application: Oral Oral
Exposure Time: (5D MALE/15D PRE) (13D PREG)
Result: Effects on Fertility: Mating performance (e.g., # sperm positive females per # females mated; # copulations per # estrus cycles). Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants).

Species: Mouse Mouse
Dose: 140 MG/KG 828 MG/KG
Route of Application: Oral Oral
Exposure Time: (13D PREG) (5D MALE/3W PRE-3W POST)
Result: Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants). Effects on Newborn: Weaning or lactation index (e.g., # alive at weaning per # alive at day 4). Effects on Newborn: Growth statistics (e.g., reduced weight gain).

Species: Mouse Mouse
Dose: 828 MG/KG 312 MG/KG
Route of Application: Oral Oral
Exposure Time: (5D MALE/3W PRE-3W POST) (26D PRE)
Result: Effects on Newborn: Weaning or lactation index (e.g., #
alive at weaning per # alive at day 4). Effects on Newborn: Growth statistics (e.g., reduced weight gain). Maternal Effects: Parturition.

Species: Mouse Mouse
Dose: 312 MG/KG 32400 UG/KG
Route of Application: Oral Subcutaneous
Exposure Time: (26D PRE) (6-17D PREG)

Species: Mouse Dog
Dose: 32400 UG/KG 2275 MG/KG
SIGMA - D0899 www.-aldrich.com Route of Application: Subcutaneous Oral
Exposure Time: (6-17D PREG) (91D PRE)

Species: Mouse Cat
Dose: 30 MG/KG 16580 UG/KG
Route of Application: Subcutaneous Intramuscular
Exposure Time: (6-17D PREG) (20-53D PREG)
Result: Effects on Newborn: Delayed effects. Effects on Newborn: Behavioral.

Species: Dog Hamster
Dose: 2275 MG/KG 500 MG/KG
Route of Application: Oral Oral
Exposure Time: (91D PRE) (9D PREG)
Result: Maternal Effects: Ovaries, fallopian tubes. Maternal Effects: Uterus, cervix, vagina. Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants).

Species: Cat Hamster
Dose: 16580 UG/KG 122 MG/KG
Route of Application: Intramuscular Intraperitoneal
Exposure Time: (20-53D PREG) (11-13D PREG)
Result: Effects on Newborn: Behavioral. Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants). Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).

Species: Hamster Hamster
Dose: 500 MG/KG 75 MG/KG
Route of Application: Oral Intravenous
Exposure Time: (9D PREG) (10D PREG)
Result: Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants). Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants).

Species: Hamster
Dose: 122 MG/KG
Route of Application: Intraperitoneal
Exposure Time: (11-13D PREG)
Result: Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants). Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).
Species: Hamster  
Dose: 75 MG/KG  
Route of Application: Intravenous  
Exposure Time: (100 PREG)  
Result: Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants).

12 - Ecological Information  
No data available.

13 - Disposal Considerations  
SIGMA - D0899 www.-aldrich.com SUBSTANCE DISPOSAL  
Contact the Drug Enforcement Administration concerning the disposal of controlled substances. Observe all federal, state, and local environmental regulations.

14 - Transport Information  
RID/AD UN#: 2811  
Class: 6.1  
PG: III  
Proper Shipping Name: Toxic solid, organic, n.o.s.

IMDG  
UN#: 2811  
Class: 6.1  
PG: III  
Proper Shipping Name: Toxic solid, organic, n.o.s.  
Marine Pollutant: No  
Severe Marine Pollutant: No  
Technical Name: Required

IATA  
UN#: 2811  
Class: 6.1  
PG: III  
Proper Shipping Name: Toxic solid, organic, n.o.s.  
Inhalation Packing Group I: No  
Technical Name: Required

15 - Regulatory Information  
CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES  
INDICATION OF DANGER: Xn  
Harmful.  
R-PHRASES: 61 21/22 62 68  
May cause harm to the unborn child. Harmful in contact with skin and if swallowed. Possible risk of impaired fertility. Possible risk of irreversible effects.  
S-PHRASES: 53 36/37 45  
Avoid exposure - obtain special instructions before use. Wear suitable protective clothing and gloves. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

COUNTRY SPECIFIC INFORMATION  
Germany  
WGK: 2

16 - Other Information  
WARRANTY  
The above information is believed to be correct but does not
purport to be all inclusive and shall be used only as a guide. The
information in this document is based on the present state of our
knowledge and is applicable to the product with regard to
appropriate safety precautions. It does not represent any
guarantee of the properties of the product. Sigma-Aldrich Inc.,
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