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Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)
Classifications according to Regulation (EC) No 1272/2008.
Printdate 01 Apr 2025

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product name:

Di-n-butylamine

1.1. Catalog No.:

677593

1.2. Relevant identified uses of the substance or mixture

Identified uses: Laboratory chemical
R&D

1.3. Uses advised against:

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Deutschland

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1.4. Emergency telephone number

HPC Standards Tel. +49 34291 3372-36
This number is only available during office hours.

2. HAZARDS IDENTIFICATION

2.1
Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008
Flammable liquids (Category 3), H226 Acute toxicity , Oral (Category 4), H302 Acute toxicity, Inhalation (Category 2), H330 Acute toxicity, Dermal (Category 3), H311 Skin corrosion, (Category 1A), H314

2.2. Label elements

2.2.1. Pictogram

2.2.2.

2.2
Label elements
Labelling according Regulation (EC) No 1272/2008

Pictogram Signal word Danger Hazard statement(s)
H226
Flammable liquid and vapour.
H302
H
armful if swallowed.
H311
Toxic in contact with skin.
H314
Causes severe skin burns and eye damage.
H330
Fatal if inhaled.
Precautionary statement(s)
P260
Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P280
Wear protective gloves/ protective clothing/ eye protection/ face
protection.
P284
Wear respiratory protection.
P305 + P351 + P338
IF IN EYES: Rinse cautiously with water for several minutes. Remove
contact lenses, if present and easy to do. Continue rin
sing.
P310
Immediately call a POISON CENTER or doctor/ physician.
Supplemental Hazard
Statements
none
2.3
Other hazards
This substance/mixture contains no components considered to be either persistent, bioaccumulative
and
toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1
Substances
Formula
:
C
8
H
19
N
Molecular weight
:
129,24 g/mol
CAS
-
No.
:
111
-
92
-
2
EC
-
No.
:
203
-
921
-
8
Index
-
No.
:

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612
-
049
-
00
-
0
Hazardous ingredients according to Regulation (EC) No 1272/2008
Component
Classification
Concentration
Dibutylamine
CAS
-
No.
EC
-
No.
Index
-
No.
111
-
92
-
2
203
-
921
-
8
612
-
049
-
00
-
0
Flam. Liq.
3
;
Acute Tox.
4
;
Acute Tox.
2
;
Acute Tox.
3
;
Skin Corr.
1A
;
H226, H302,
H311, H314, H330
<=
100
%
Hazardous ingredients according to Directive 1999/45/EC
Component
Classification
Concentration
Dibutylamine
CAS
-
No.
EC
-
No.
Index
-
No.
111
-
92
-
2
203
-
921
-

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8
612
-
049
-
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-
0
T
,
R10
-
R21/22
-
R23
-
R35
<=
100
%

3.1.1. Formula

C8H19N

3.1.2. Molecular Weight (g/mol)

129.24

3.1.3. CAS-No.

111-92-2

4. FIRST AID MEASURES

4.1
Description of first aid measures
General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact
Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take

victim immediately to hospital. Consult a physician. In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a phy
sician.
If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
4.2
Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
4.3
Indication of any immediate medical attention and special treatment needed
No data available

5. FIRE-FIGHTING MEASURES

5.1
Extinguishing media
Suitable extinguishing media
Use water spray, alcohol
-
resistant foa
m, dry chemical or carbon dioxide.
5.2
Special hazards arising from the substance or mixture
Carbon oxides, Nitrogen oxides (NOx)
5.3
Advice for firefighters
Wear self
-
contained breathing apparatus for firefighting if necessary.
5.4
Furt
her information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1
Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumula
ting to form
explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.
6.2
Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the envir
onment must be avoided.
6.3
Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner
or by wet
-
brushing and
place in container for disposal according to local regulations (see section 13).
6.4
Reference to other sections
For disposal see section 13.

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7. HANDLING AND STORAGE

7.1
Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Keep away from sources of ignition
-
No smoking.Take measures to prevent the build up of electrostatic
charge.
For precautions see section 2.2.
7.2
Conditions for safe storage, including any incompatibilities
Store in cool place.
Keep container tightly c
losed in a dry and well
-
ventilated place.
Containers which are
opened must be carefully resealed and kept upright to prevent leakage.
Storage class (TRGS 510)
:
Flammable liquids
7.3
Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1
Control parameters
Components with workplace control parameters
8.2
Exposure controls
Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling
the product.
Personal protective equipment
Eye/face protection
Tightly fitting safety goggles. Faceshield (8
-
inch minim
um). Use equipment for eye protection
tested and approved under appropriate government standards such as NIOSH (US) or EN
166(EU).
Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique
(without touchi
ng glove's outer surface) to avoid skin contact with this product. Dispose of
contaminated gloves after use in accordance with applicable laws and good laboratory practices.
Wash and dry hands. Body Protection
Complete suit protecting against chemicals, Flame retardant antistatic protective clot
hing., The
type of protective equipment must be selected according to the concentration and amount of the
dangerous substance at the specific workplace.
Respiratory protection
Where risk assessment shows air
-
purifying respirators are appropriate use a full
-
face respirator
with multi
-
purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup
to engineering controls. If the respirator is the sole means of protection, use a full
-
face supplied air
respirator. Use respirators and componen
ts tested and approved under appropriate government
standards such as NIOSH (US) or CEN (EU).
Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into

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the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1
Information on basic physical and chemical properties
a)
Appearance
Form
:
clear, liquid
Colour
:
colourless
b)
Odour
ammoniacal
c)
Odour Threshold
No data available
d)
pH
11,1
at
1 g/l
at
20 °C
e)
Melting point/freezing point
Melting point/range
:
-
62 °C
-
lit.
f)
Initial boiling point and boiling range
159 °C
-
lit.
g)
Flash point
40,5 °C
-
closed cup
h)
Evaporation rate
No data available
i)
Flammability (solid, gas)
No data available
j)
Upper/lower flammability or explosive limits
Upper explosion limit
:
6,8 %(V)
Lower explosion limit
:
0,6 %(V)
k)
Vapour pressure
2,5 hPa
at
20 °C
l)
Vapour density
4,46

-
(Air = 1.0)
m)
Relative density
0,767 g/cm3
at
25 °C
n)
Water solubility
3,8 g/l
at
20 °C
-
OECD Test Guideline 105
-
completely miscible
o)
Partition coefficient: n
-
octanol/water
log Pow
:
2,1
at
23 °C
p)
Auto
-
ignition
temperature
225 °C
at
1.013,25 hPa
q)
Decomposition
temperature
No data available
r)
Viscosity
No data available
s)
Explosive properties
No data available
t)
Oxidizing properties
No data available
9.2
Other safety information
Surface tension
50,6 mN/m
at
20 °C
Dissociation constant
11
at
20 °C
Relative vapour density
4,46
-
(Air = 1.0)

10. STABILITY AND REACTIVITY

10.1
Reactivity
No data available
10.2
Chemical stability
Stable under recommended storage conditions.
10.3
Possibility of hazardous reactions

No data available
10.4
Conditions to avoid
Heat, flames and sparks 10.5
Incompatible materials
Strong oxidizing agents, Carbon dioxide (CO2), Zinc, Iron, Copper
10.6
Hazardous decomposition products
Other decomposition
products
-
No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1
Information on toxicological effects
Acute toxicity
LD50
Oral
-
Rat
-
male
-
550 mg/kg
LC50
Inhalation
-
Rat
-
male and female
-
4 h
-
1,15 mg/l
(
OECD Test Guideline 403
)
LD50
Dermal
-
Rabbit
-
male
-
768 mg/kg
Skin corrosion/irritation
Skin
-
Rabbit
Result
:
Causes severe burns.
-
3 min
-
1 h
(
OECD Test Guideline 404
)
Serious eye damage/eye irritation
Eyes
-
Rabbit
Result
:
Corrosive
(
OECD Test Guideline 405

)
Respiratory or skin sensitisation
Buehler Test
-
Guinea pig
Result
:
Does not cause skin sensitisation.
Germ cell mutagenicity
Mouse
lymphocyte
Result
:
negative
OECD Test Guideline 475
Mouse
-
male and female
Result
:
negative
Carcinogenicity
IARC:
No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity
No data available
Specific target organ toxicity
-
single exposure
No data available
Specific target organ toxicity
-
repeated exposure
No data available Aspiration hazard
No data available
Additional Information
RTECS
:
HR7780000
Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea

12. ECOLOGICAL INFORMATION

12.1 Toxicity Toxicity to fish
LC50
-
Oncorhynchus mykiss (rainbow trout)
-
5,5
-
37,0 mg/l
-
96 h
Toxicity to daphnia and other aquatic invertebrates
static test
EC50
-
Daphnia magna (Water flea)
-
65,98 mg/l
-
48 h
(
Directive 67/548/EEC, Annex V, C.2.
)
Toxicity to algae
static test

EC50
-
Desmodesmus subspicatus (Scenedesmus subspicatus)
-
16,91 mg/l
-
72 h
12.2
Persistence and degradability
Biodegradability
aerobic
-
Exposure time
28 d
Result
:
95 %
-
Readily biodegradable.
(
OECD Test Guideline 301C
)
12.3
Bioaccumulative potential
No data available
12.4
Mobility in soil
No data available
12.5
Results of PBT and vPvB assessment
This substance/mixture contains no components considered to be eith
er persistent, bioaccumulative and
toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
12.6
Other adverse effects
Toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

13.1
Waste treatment methods
Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting
as this material is highly flammable.
Offer surplus and non
-
recyclable solutions to a licensed
disposal
company.
Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

14.1
UN number
ADR/RID
:
2248
IMDG

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:
2248
IATA:
2248
14.2
UN proper shipping name
ADR/RID
:
DI
-
n
-
BUTYLAMINE
IMDG
:
DI
-
n
-
BUTYLAMINE
IATA:
Di
-
n
-
butylamine
14.3
Transport hazard class(es)
ADR/RID
:
8
(
3
)
IMDG
:
8
(
3
)
IATA:
8
(
3
)
14.4
Packaging group
ADR/RID
:
II
IMDG
:
II
IATA:
II
14.5
Environmental hazards
ADR/RID
:
no
IMDG
Marine pollutant
:
no
IATA:
no
14.6
Special pr
ecautions for user
No data available

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15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
15.1
Safety, health and environmental regulations/legislation specific for the substance or mixture No data available
15.2
Chemical Safety Assessment
For this product a chemical safety assessment was not carried out

16. OTHER INFORMATION

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. For lab use only!