

# Polymer Add (Thailand) Co; Ltd.



## Safety Data Sheet

### N-BUTYL-BENZENESULFONAMIDE

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

### 1.1 Product identifiers

Chemical Name	N-BUTYL-BENZENESULFONAMIDE
CAS NO.	3622-84-2

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

1. N-Butylbenzenesulfonamide (NBBS) is used as plasticizer for polyacetals, polycarbonates, polysulphones, nylons.
2. N-Butylbenzenesulfonamide (NBBS) is used in Nylon 11 & Nylon 12 and in the production of flexible tubing.
3. N-Butylbenzenesulfonamide (NBBS) is used in the production of films, transparent coatings, and plastic resins.

### Details of the supplier of the safety data sheet

#### COMPANY

POLYMER ADD (THAILAND) CO., LTD.  
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Thailand  
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## 2 HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

Human Health	Specific target organ toxicity - repeated exposure (Category 2), H373
Environment	Acute aquatic toxicity (Category 3), H402 Chronic aquatic toxicity (Category 3), H412

### 2.2 Labelling according Regulation (EC) No 1272/2008 [CLP]

<b>Signal word</b>	Warning
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P273	Avoid release to the environment.
P314	Get medical advice/ attention if you feel unwell
P501	Dispose of contents/ container to an approved waste disposal plant

2.3 Other hazards	none
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## 3 COMPOSITION/INFORMATION ON INGREDIENTS

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#### 3.1 Substances

##### Component

Chemical Name	N-Butylbenzenesulfonamide
CAS NO	3622-84-2
EC Number	222-823-6
Molecular Formula	C <sub>10</sub> H <sub>15</sub> NO <sub>2</sub> S
Molecular Weight	213.30 g/mol
Concentration	90 - 100 %

#### 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

Wash off with soap and plenty of water.  
Consult a physician.

###### In case of eye contact

Flush eyes with water as a precaution.

###### If swallowed

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 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 substance or mixture

Carbon oxides, nitrogen oxides (NO<sub>x</sub>), Sulphur oxides

##### 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire

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fighting if necessary.

#### 5.4 Further information

no data available

## 6 ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions protective equipment and emergency procedures

Avoid breathing vapours, mist or gas.  
Avoid breathing vapours, mist or gas.  
Ensure adequate ventilation.  
Evacuate personnel to safe areas.

### 6.2 Environmental precautions

Do not let product enter drains.  
Do not let product enter drains.  
Discharge into the environment must be avoided

### 6.3 Methods and materials for containment and cleaning up

Keep in suitable, closed containers for disposal.  
Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For disposal see section 13.

## 7 HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid inhalation of vapour or mist  
Avoid inhalation of vapour or mist  
For precautions see section 2.2

### 7.2 Information about protection against explosions and fires

No data available

### 7.3 Conditions for safe storage including any incompatibilities

Containers which are opened must be carefully resealed and kept upright to prevent leakage  
Containers which are opened must be carefully resealed and kept upright to prevent leakage

### 7.4 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

#### Appropriate engineering controls

Wash hands before breaks and at the end of workda  
Wash hands before breaks and at the end of workda

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#### Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)

#### Skin protection

Gloves must be inspected prior to use

Gloves must be inspected prior to use

Use proper glove removal technique (without touching 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, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

If the respirator is the sole means of protection, use a full-face supplied air respirator.

If the respirator is the sole means of protection, use a full-face supplied air respirator.

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Control of environmental exposure

Do not let product enter drains.

Do not let product enter drains.

Discharge into the environment must be avoided.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

a)Appearance	viscous liquid Colour: colourless
b)Odour	no data available
c)Odour Threshold	no data available
d)pH (% solution in water)	no data available
e)Melting point/freezing point	no data available
f)Initial boiling point and boiling range	314 °C (597 °F)
g)Flash point	113 °C
h)Evaporation rate	no data available
i)Flammability (solid or gas)	no data available
j)Upper/lower flammability or explosive limits	no data available
k)Vapour pressure	no data available

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l)Vapour density	no data available
m)Relative density	1.15 g/cm <sup>3</sup> at 25 °C
n)Water solubility	0.45 g/l at 20 °C
o)Partition coefficient: n-octanol/water	2.01 at 20 °C
p)Autoignition temperature	no data available
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

Bulk Density	no data available
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#### 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	no data available
10.5 Incompatible materials	Strong oxidizing agents
10.6 Hazardous decomposition products	no data available

#### 11 TOXICOLOGICAL INFORMATION

##### 11.1 Information on toxicological effects

<b>Acute oral toxicity</b>	LD50 Oral - rat - male and female - 2,070 mg/kg
<b>Acute Inhalation toxicity</b>	LC50 Inhalation - rat - male and female - 4 h - > 4.06 mg/l
<b>Acute dermal toxicity</b>	LD50 Dermal - rat - male and female - > 2,000 mg/kg
<b>Skin corrosion/irritation</b>	Skin - rabbit; No skin irritation - 4 h
<b>Serious eye damage/eye irritation</b>	Eyes - rabbit Result: No eye irritation - 24 h
<b>Respiratory or skin sensitization</b>	mouse Result: Does not cause skin sensitisation
<b>Germ cell mutagenicity</b>	Ames test S. typhimurium Result: negative
<b>IARC</b>	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human

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	carcinogen by IARC
<b>Reproductive toxicity</b>	no data available
<b>Specific target organ toxicity - single exposure</b>	no data available
<b>Specific target organ toxicity - repeated exposure</b>	no data available
<b>Signs and symptoms of exposure</b>	no data available
<b>Route of exposure</b>	no data available
<b>Aspiration hazard</b>	no data available
<b>Potential health effects</b>	no data available
<b>Inhalation</b>	no data available
<b>Ingestion</b>	no data available
<b>Skin</b>	no data available
<b>Eyes</b>	no data available

## 12 ECOLOGICAL INFORMATION

### 12.1 Toxicity

Toxicity to fish	semi-static test LC50 - Danio rerio (zebra fish) - 36.7 mg/l - 96 h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - 56 mg/l - 48 h
Toxicity to Algae/Aquatic plants	inhibition EC50 - Pseudokirchneriella subcapitata (Selenastrum capricornutum) - 49 mg/l - 72 h (OECD Test Guideline 201)

### 12.2 Persistence and degradability

#### Biodegradation

Exposure time 28 d Result: 18 % - Not readily biodegradable.

12.3 Bio accumulative potential	no data available
12.4 Mobility in soil	no data available
12.5 Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
12.6 Other adverse effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects.

## 13 DISPOSAL CONSIDERATIONS

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#### 13.1 Waste treatment methods

##### Product

Contaminated packaging Dispose of as unused product.

#### 14 TRANSPORT INFORMATION

##### 14.1 UN number

###### ADR/RID

###### IMDG

###### IATA

-

-

-

##### 14.2 UN proper shipping name

###### ADR/RID

###### IMDG

###### IATA

Not dangerous goods

Not dangerous goods

Not dangerous goods

##### 14.3 Transport hazard class(es)

###### ADR/RID

###### IMDG

###### IATA

Not dangerous goods

Not dangerous goods

Not dangerous goods

##### 14.4 Packaging group

##### 14.5 Environmental hazards

###### ADR/RID

###### IMDG Marine pollutant

###### IATA

Not dangerous goods

Not dangerous goods

Not dangerous goods

##### 14.6 Special precautions for user

#### 15 REGULATORY INFORMATION

may be proceed is not working properly

##### 15.1 Safety health and environmental regulations/legislation specific for the substance or mixture

No data available

##### 15.2 Chemical Safety Assessment

No data available

#### 16 OTHER INFORMATION

Month of Creation

JUNE 2020

Month of Revision

JUNE 2023