

# Safety data sheet

## 063CG0614 SOLUTN/LUTANOL BUTYL CELL

Revision date : 2016/01/29  
Version: 3.0

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(30554938/CDU\_GEN\_US/EN)

### 1. Substance/preparation and company identification

Company

BASF CORPORATION  
100 Park Avenue  
Florham Park, NJ 07932, USA

24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300  
BASF HOTLINE: 1-800-832-HELP (4357)

### 2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard;  
29 CFR Part 1910.1200

Classification of the product

|                                   |    |                     |
|-----------------------------------|----|---------------------|
| Acute toxicity                    | 4  | dermal              |
| Acute toxicity                    | 4  | Inhalation - vapour |
| Skin corrosion/irritation         | 2  |                     |
| Serious eye damage/eye irritation | 2A |                     |
| Flammable liquids                 | 4  |                     |

Label elements

Pictogram:  
Exclamation mark

Signal Word:  
Warning

Hazard Statement:

|      |                                |
|------|--------------------------------|
| H319 | Causes serious eye irritation. |
| H315 | Causes skin irritation.        |
| H312 | Harmful in contact with skin.  |
| H332 | Harmful if inhaled.            |
| H227 | Combustible liquid.            |

Precautionary Statements (Prevention):

|      |  |
|------|--|
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray.  |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P264 | Wash with plenty of water and soap thoroughly after handling.                                  |

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P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

### Precautionary Statements (Response):

P337 + P313 If eye irritation persists: Get medical advice/attention.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P322 Specific measures (see on this label).

P321 Specific treatment (see on this label).

P362 + P364 Take off contaminated clothing and wash it before reuse.

P363 Wash contaminated clothing before reuse.

P370 + P378 In case of fire: Use water spray for extinction.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

### Precautionary Statements (Storage):

P403 + P235 Store in a well-ventilated place. Keep cool.

### Precautionary Statements (Disposal):

P501 Dispose of contents/container to hazardous or special waste collection point.

Hazards not otherwise classified

No applicable information available.

According to Regulation 1994 OSHA Hazard Communication Standard;  
29 CFR Part 1910.1200

### Emergency overview

COMBUSTIBLE LIQUID

HARMFUL IF INHALED

CAN CAUSE CENTRAL NERVOUS SYSTEM DAMAGE

CAN CAUSE LIVER DAMAGE

CAN CAUSE KIDNEY DAMAGE

MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION

SUSPECT CANCER HAZARD

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### 3. Composition / Information on Ingredients

According to Regulation 2012 OSHA Hazard Communication Standard;  
29 CFR Part 1910.1200

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| CAS Number | Weight %       | Chemical name   |
|------------|----------------|-----------------|
| 111-76-2   | 75.0 - 100.0 % | 2-butoxyethanol |

According to Regulation 1994 OSHA Hazard Communication Standard;  
29 CFR Part 1910.1200

| CAS Number | Weight %       | Chemical name   |
|------------|----------------|-----------------|
| 111-76-2   | 75.0 - 100.0 % | 2-butoxyethanol |

### 4. First-Aid Measures

Description of first aid measures

General advice:

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air.

If breathing difficulties develop, aid in breathing and seek immediate medical attention.

If on skin:

Wash affected areas with water for at least 15 minutes.

If symptoms persist, seek medical advice.

If in eyes:

Flush with copious amounts of water for at least 15 minutes.

Hold eyelids open to facilitate rinsing.

Seek medical attention.

If swallowed:

Rinse mouth and then drink plenty of water.

Do not induce vomiting due to aspiration hazard.

Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

Immediate medical attention is required.

Ingestion may cause irritation of the gastrointestinal tract.

Aspiration may result in chemical pneumonitis, which may be fatal.

Most important symptoms and effects, both acute and delayed

Symptoms:

Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment:

### 5. Fire-Fighting Measures

Extinguishing media

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Suitable extinguishing media:

Dry extinguishing media

Carbon dioxide

Foam

Water spray

Unsuitable extinguishing media for safety reasons:

Special hazards arising from the substance or mixture

Hazards during fire-fighting:

Flammable gases/vapors.

Vapors and/or decomposition products are irritants and/or toxic.

If product is heated above decomposition temperatures, acrid smoke and fumes will be released.

Advice for fire-fighters

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:

Vapors are heavier than air and may accumulate in low areas and travel a considerable distance up to the source of ignition. Flash fire may occur.

Remove product from areas of fire or otherwise cool containers with water in order to avoid pressure build-up due to heat.

Do not flood burning material with water due to potential spreading of fire.

Contain contaminated water/firefighting water.

Run-off water from fire may cause pollution.

Notify proper authorities.

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### 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Extinguish sources of ignition nearby and downwind.

Wear suitable personal protective clothing and equipment.

Ensure adequate ventilation.

Avoid prolonged inhalation.

Avoid contact with skin and eyes.

Use antistatic tools.

Environmental precautions

Do not discharge into drains/surface waters/groundwater.

A spill of or in excess of the reportable quantity requires notification to state, local and national emergency authorities.

Methods and material for containment and cleaning up

Spills should be contained, solidified, and placed in suitable containers for disposal.

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### 7. Handling and Storage

Precautions for safe handling

Ensure adequate ventilation.

Do not puncture, drop or slide containers.

Use static lines when mixing and transferring material.

Handle and open container with care.

Avoid contact with the skin, eyes and clothing.

WARNING: Empty containers may still contain hazardous residue.

Do not apply to hot surfaces.

Proper ventilation and respiratory protection is required when sanding, flame cutting, welding or brazing coated surfaces.

Protection against fire and explosion:

Use antistatic tools.

Exhaust fans should be explosion proof.

Provide adequate ventilation to remove solvent vapors from lower levels or work areas and to prevent solvent contact with ignition sources.

Sealed containers should be protected against heat as this results in pressure build-up.

Risk of explosion if heated under confinement.

Avoid all sources of ignition: heat, sparks, or open flame.

Conditions for safe storage, including any incompatibilities

Segregate from incompatible substances.

Segregate from oxidizing agents.

Segregate from strong bases.

Segregate from strong acids.

Further information on storage conditions:

Keep container tightly closed.

Protect from direct sunlight.

Consult local fire marshal for storage requirements.

Storage stability:

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### 8. Exposure Controls and Personal Protection

Components with occupational exposure limits

2-butoxyethanol

ACGIH TWA 20 ppm

OSHA PEL 50 ppm 240 mg/m<sup>3</sup>

Advice on system design:

Provide local exhaust ventilation to maintain recommended P.E.L.

General mechanical ventilation should comply with OSHA 1910.94.

Personal protective equipment

Respiratory protection:

Wear respiratory protection if ventilation is inadequate.

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Wear NIOSH-certified (or equivalent) organic vapor/particulate respirator.

Do not exceed the maximum use concentration for the respirator facepiece/cartridge combination.

Observe OSHA regulations for respirator use (29 CFR 1910.134).

### Hand protection:

Use appropriate chemically resistant gloves as determined by an evaluation of glove performance characteristics and the hazards and potential hazards identified, including but not limited to butyl, natural and synthetic rubber, nitrile, or neoprene.

### Eye protection:

Tightly fitting safety goggles (chemical goggles).

Wear face shield if splashing hazard exists.

### Body protection:

Body protection must be chosen based on activity level and exposure.

### General safety and hygiene measures:

Work place should be equipped with a shower and eye wash.

Contact lenses should not be worn.

Remove contaminated clothing.

Contaminated equipment or clothing should be cleaned after each use or disposed of.

Hands and/or face should be washed before breaks and at the end of the shift.

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## 9. Physical and Chemical Properties

|  |                                      |
|--|--------------------------------------|
| Form:  | liquid                               |
| Odour:   | moderate odour                       |
| Odour threshold:                                       | No applicable information available. |
| Colour:  | yellow to amber                      |
| pH value:  | No applicable information available. |
| Melting temperature:                                   | No applicable information available. |
| Boiling range:   | 339 °F / 170.6 °C                    |
| Sublimation temperature:                               | No applicable information available. |
| Flash point:   | 142 - 199 °F (61.1 - 92.8 °C)        |
| Flammability:  | No applicable information available. |
| Lower explosion limit:                                 | 1.1 %(V)                             |
| Upper explosion limit:                                 | 10.6 %(V)                            |
| Autoignition:  | No applicable information available. |
| Vapour pressure:                                       | 0.60 mmHg (20 °C)                    |
| Density:   | 7.65 Lb/USg MEAS                     |
| Relative density:                                      | 0.92                                 |
| Vapour density:  | heavier than air                     |
| Partitioning coefficient<br>n-octanol/water (log Pow): | No applicable information available. |
| Thermal decomposition:                                 | No applicable information available. |
| Viscosity, dynamic:                                    | No applicable information available. |
| Viscosity, kinematic:                                  | > 20.60 mm <sup>2</sup> /s           |
| Solubility in water:                                   | No applicable information available. |

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|                            |                                      |
|----------------------------|--------------------------------------|
| Solubility (quantitative): | No applicable information available. |
| Solubility (qualitative):  | No applicable information available. |
| Evaporation rate:          | No applicable information available. |

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### 10. Stability and Reactivity

#### Reactivity

Reactivity:  
No applicable information available.

#### Chemical stability

Chemical stability:  
The product is chemically stable.

#### Possibility of hazardous reactions

Hazardous reactions:  
No applicable information available.

#### Conditions to avoid

Conditions to avoid:  
Avoid all sources of ignition: heat, sparks or open flames.  
Avoid electrostatic discharge.

#### Incompatible materials

Substances to avoid:  
strong bases  
strong oxidizing agents  
strong acids

#### Hazardous decomposition products

Decomposition products:  
carbon monoxide  
carbon dioxide

Thermal decomposition:  
No applicable information available.

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### 11. Toxicological Information

#### Primary routes of exposure

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

Primary routes of entry:  
Solvents are absorbed through the skin.

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### Acute Toxicity/Effects

#### Acute toxicity

Assessment of acute toxicity:

Inhalation may cause CNS depression, blurred vision, dizziness and drowsiness.

Overexposure may cause nausea and vomiting.

Inhalation causes headache and nausea.

Vapors have a suffocating effect.

Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal.

Of moderate toxicity after short-term inhalation.

Of moderate toxicity after short-term skin contact.

Information on: 2-butoxyethanol

Assessment of acute toxicity:

Of moderate toxicity after short-term inhalation.

Of moderate toxicity after short-term skin contact.

Of moderate toxicity after single ingestion.

#### Oral

Acute oral toxicity:

No applicable information available.

#### Inhalation

Acute inhalation toxicity:

No applicable information available.

#### Dermal

Acute dermal toxicity:

No applicable information available.

#### Assessment other acute effects

Assessment of STOT single:

No applicable information available.

#### Irritation / corrosion

Assessment of irritating effects:

Skin contact may result in irritation, defatting and dermatitis.

Vapors cause irritation to the respiratory tract and the eyes.

Prolonged inhalation of product vapor can result in irritation of the mucous membranes.

Eye contact causes irritation.

Skin contact causes irritation.

Information on: 2-butoxyethanol

Assessment of irritating effects:

Eye contact causes irritation.

Skin contact causes irritation.



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### Sensitization

Assessment of sensitization:

No applicable information available.

Aspiration hazard

No applicable information available.

### Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity:

No applicable information available.

Genetic toxicity

Assessment of mutagenicity:

No applicable information available.

Carcinogenicity

Assessment of carcinogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: 2-butoxyethanol

Assessment of carcinogenicity:

Indication of possible carcinogenic effect in animal tests.

Reproductive toxicity

Assessment of reproduction toxicity:

No applicable information available.

Development

Assessment of teratogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components.

Symptoms of Exposure

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

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## 12. Ecological Information

No applicable information available.

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## 13. Disposal Considerations

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Waste disposal of substance

Dispose of in accordance with national, state and local regulations.

The use and processing of this product, or addition of other constituents, may cause it to be considered a hazardous waste.

It is the waste generators responsibility to determine if a particular waste is hazardous under RCRA.

Do not discharge into drains/surface waters/groundwater.

Incinerate or dispose of in a RCRA licensed facility.

Do not incinerate closed containers.

Container disposal

Dispose of in accordance with national, state and local regulations.

Do not reuse containers without commercial reconditioning.

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### 14. Transport Information

Land transport

USDOT

Combustible Liquid, Only regulated in packages > 119 Gallons.

Sea transport

IMDG

Not regulated

Air transport

IATA/ICAO

Not regulated

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### 15. Regulatory Information

Federal Regulations

Registration status

TSCA, US released / listed

EPCRA 313

CAS number

111-76-2

Weight %

75.0

Chemical name

2-butoxyethanol

State regulations

State RTK

CAS Number

111-76-2

64-17-5

Chemical name

2-butoxyethanol

ethanol

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HMIS III rating

Health: 2

Flammability: 2

Physical hazard: 0

### 16. Other information

Full disclosure

Chemical name

CAS Number

Content (weight %)

polyvinyl ethyl ether

25104-37-4

20 - 30

2-butoxyethanol

111-76-2

70 - 80

SDS prepared by: BASF NA Product Regulations

SDS prepared on 29.01.2016

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