



**Safety Data Sheet dated 13/6/2022, version 2**

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

1.1. Product identifier

Mixture identification:

Trade name: BC COMP. B 60

UFI: HSTD-E2KY-GS17-N89A

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

Uses advised against:

Not suitable for "Do-it-yourself".

1.3. Details of the supplier of the safety data sheet

Boldan Oy, Matkuntie 3, 05200 RAJAMÄKI, FINLAND

Competent person responsible for the safety data sheet:

info@boldan.fi







1.4. Emergency telephone number

n. +39 0521-812188 Fax n. +39 0521-812195

**SECTION 2: Hazards identification**

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP):

-  Warning, Acute Tox. 4, Harmful if swallowed.
-  Warning, Acute Tox. 4, Harmful in contact with skin.
-  Danger, Skin Corr. 1A, Causes severe skin burns and eye damage.
-  Danger, Eye Dam. 1, Causes serious eye damage.
-  Warning, Skin Sens. 1, May cause an allergic skin reaction.
-  Aquatic Chronic 2, Toxic to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Danger

Hazard statements:

H302+H312 Harmful if swallowed or in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

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

## Safety Data Sheet

### BC COMP. B 60

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

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

P310 Immediately call a POISON CENTER or doctor/physician.

P391 Collect spillage.

Special Provisions:

None

Contains

Propylidynetrimethanol, propoxylated, reaction products with ammonia

Fatty acids, C18unsatd., dimers, oligom. reaction products with tall-oil fatty acids

3,6-diazaoctaneethylenediamin

1,4-bis(butilammino)antrachinone: May produce an allergic reaction.

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration  $\geq 0.1\%$

Other Hazards:

No other hazards













## SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
$\geq 40\%$ - $< 60\%$	Propylidynetrimethanol , propoxylated, reaction products with ammonia	CAS: 39423-51-3 EC: 500-105-6 REACH No.: 01-21195568 86-20-XXXX	 3.1/4/Oral Acute Tox. 4 H302  3.1/4/Dermal Acute Tox. 4 H312  3.3/1 Eye Dam. 1 H318  4.1/C2 Aquatic Chronic 2 H411
$\geq 20\%$ - $< 40\%$	Fatty acids, C18unsatd., dime rs, oligom. reaction products with tall-oil fatty acids	CAS: 68082-29-1	 3.2/2 Skin Irrit. 2 H315  3.3/2 Eye Irrit. 2 H319  3.4.2/1 Skin Sens. 1 H317
$\geq 20\%$ - $< 40\%$	3,6-diazaoctaneethylen ediamin	CAS: 90640-67-8 EC: 292-588-2 REACH No.: 01-21194879 19-13-XXXX	 3.1/4/Dermal Acute Tox. 4 H312  3.2/1 Skin Corr. 1 H314  3.1/4/Oral Acute Tox. 4 H302  3.4.2/1 Skin Sens. 1 H317 4.1/C3 Aquatic Chronic 3 H412
$\geq 0.1\%$ - $< 0.25\%$	1,4-bis(butilammino)an trachinone	CAS: 17354-14-2 EC: 241-379-4	 3.4.2/1-1A-1B Skin Sens. 1,1A,1B H317

## SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

## Safety Data Sheet BC COMP. B 60

Immediately take off all contaminated clothing.  
OBTAIN IMMEDIATE MEDICAL ATTENTION.  
Remove contaminated clothing immediately and dispose off safely.  
After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do NOT induce vomiting.

Give nothing to eat or drink.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

4.2. Most important symptoms and effects, both acute and delayed

None

4.3. Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

None

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### SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

CO2 or Dry chemical fire extinguisher.

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

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### SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

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### SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

## Safety Data Sheet BC COMP. B 60

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

### 7.2. Conditions for safe storage, including any incompatibilities

Store in original containers, dry, tightly closed, in a cool and well-ventilated area.

Avoid contact with skin, eyes and clothing.

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

### 7.3. Specific end use(s)

None in particular

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No occupational exposure limit available

#### DNEL Exposure Limit Values

Propylidyntrimethanol, propoxylated, reaction products with ammonia - CAS: 39423-51-3

Worker Professional: 14.1 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 1.6 07 - Exposure: Human Dermal - Frequency: Long Term, systemic effects

3,6-diazaoctaneethylenediamin - CAS: 90640-67-8

Worker Professional: 5.380 mg/m<sup>3</sup> - Consumer: 1.600 mg/kg - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Professional: 1 mg/m<sup>3</sup> - Consumer: 0.29 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 0.028 mg/m<sup>3</sup> - Consumer: 0.43 04 - Exposure: Human Dermal - Frequency: Long Term, local effects

Consumer: 0.41 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects - Notes: bw/giorno

Consumer: 20 mg/kg - Exposure: Human Oral - Frequency: Short Term, systemic effects - Notes: bw/giorno

#### PNEC Exposure Limit Values

Propylidyntrimethanol, propoxylated, reaction products with ammonia - CAS: 39423-51-3

Target: Fresh Water - Value: 0.004 mg/l

Target: Marine water - Value: 0 mg/l

Target: Freshwater sediments - Value: 0.022 mg/kg - Notes:: peso secco

Target: Marine water sediments - Value: 0.002 mg/kg

Target: 08 - Value: 0.002 mg/kg - Notes:: peso secco

### 8.2. Exposure controls

#### Eye protection:

Wear protective goggles (ref. Standard EN 166).

#### Protection for skin:

Safety shoes.

Wear work clothes with long sleeves and safety footwear for professional use of category I (REF. Dir. 89/686/EEC and EN 344).

#### Protection for hands:

Protect your hands with work gloves (ref. Directive 89/686 / EEC and its amendments and EN 374/2003)

#### Respiratory protection:

## Safety Data Sheet

### BC COMP. B 60

Use adequate protective respiratory equipment. (Ref. Dir. 89/686 / EEC, as amended - UNI PROTECTED / 1998 - UNI EN 529/2006)

Thermal Hazards:

None

Environmental exposure controls:

Prevent from entering sewers, basements or any place where its accumulation can be dangerous.

Appropriate engineering controls:

None

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Physical state:	Liquid	--	--
Colour:	Blue	--	--
Odour:	ammoniacal	--	--
Melting point/freezing point:	Not Relevant	--	--
Boiling point or initial boiling point and boiling range:	> 100°C	--	--
Flammability:	Not Relevant	--	--
Lower and upper explosion limit:	Not Relevant	--	--
Flash point:	> 100°C ° C	--	--
Auto-ignition temperature:	Not Relevant	--	--
Decomposition temperature:	Not Relevant	--	--
pH:	12	--	--
Kinematic viscosity:	Not Relevant	--	--
Solubility in water:	soluble	--	--
Solubility in oil:	Not Relevant	--	--
Partition coefficient n-octanol/water (log value):	Not Relevant	--	--
Vapour pressure:	Not Relevant	--	--
Density and/or relative density:	0.98 - 1.02 g/ml	--	--
Relative vapour density:	Not Relevant	--	--

#### Particle characteristics:

Particle size:	Not Relevant	--	--
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### 9.2. Other information

Properties	Value	Method:	Notes:
Viscosity:	200 - 300 mPas @25°C	--	--

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

### 10.3. Possibility of hazardous reactions

None

### 10.4. Conditions to avoid

## Safety Data Sheet

### BC COMP. B 60

- Stable under normal conditions.
- 10.5. Incompatible materials  
None in particular.
- 10.6. Hazardous decomposition products  
None.

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#### SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological information of the product:

N.A.

Toxicological information of the main substances found in the product:

Propylidyntrimethanol, propoxylated, reaction products with ammonia - CAS: 39423-51-3

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 550 mg/kg - Notes: Metodo: Linee Guida 425  
Test dell'OECD

Test: LD50 - Route: Skin - Species: Rat > 1.000 mg/kg - Notes: Metodo: Linee Guida  
402 Test dell'OECD

e) germ cell mutagenicity:

Test: Genotoxicity

3,6-diazaoctaneethylenediamin - CAS: 90640-67-8

LD50: 2.500 mg/kg (oral rat)

LD50: 805 mg/kg (dermal rabbit)

1,4-bis(butylammino)antrachinone - CAS: 17354-14-2

LD50: > 6.400 mg/kg (oral rat)

If not differently specified, the information required in Regulation (EU)2020/878 listed below must be considered as N.A.:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration  $\geq 0.1\%$

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#### SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Propylidyntrimethanol, propoxylated, reaction products with ammonia - CAS: 39423-51-3

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 96 - Notes: Metodo: Linee  
Guida 203 Test dell'OECD

e) Plant toxicity:

Endpoint: EC50 - Species: Algae = 4.4 mg/l - Duration h: 72 - Notes: Metodo: Linee  
Guida 201 Test dell'OECD

Endpoint: NOEC - Species: Algae = 1 mg/l - Duration h: 72 - Notes: Metodo: Linee  
Guida 201 Test dell'OECD

h) Acute Daphnia Toxicity::

Endpoint: EC50 - Species: Daphnia = 13 mg/l - Duration h: 48 - Notes: Metodo: OECD TG 202

12.2. Persistence and degradability

IPE 60/33 Blu

Biodegradability: No data available.

Propylidyntrimethanol, propoxylated, reaction products with ammonia - CAS: 39423-51-3

Biodegradability: Non-readily biodegradable

Fatty acids,C18unsatd.,dimers,oligom.reaction products with tall-oil fatty acids - CAS: 68082-29-1

Biodegradability: No data available.

3,6-diazaoctaneethylenediamin - CAS: 90640-67-8

Biodegradability: not biodegradable

12.3. Bioaccumulative potential

IPE 60/33 Blu

Bioaccumulation: Information not available

Propylidyntrimethanol, propoxylated, reaction products with ammonia - CAS: 39423-51-3

Bioaccumulation: Information not available

Fatty acids,C18unsatd.,dimers,oligom.reaction products with tall-oil fatty acids - CAS: 68082-29-1

Bioaccumulation: Information not available

3,6-diazaoctaneethylenediamin - CAS: 90640-67-8

Bioaccumulation: Shortly bioaccumulative.

12.4. Mobility in soil

IPE 60/33 Blu

Mobility in soil: No data available

Propylidyntrimethanol, propoxylated, reaction products with ammonia - CAS: 39423-51-3

Mobility in soil: No data available

Fatty acids,C18unsatd.,dimers,oligom.reaction products with tall-oil fatty acids - CAS: 68082-29-1

Mobility in soil: No data available

3,6-diazaoctaneethylenediamin - CAS: 90640-67-8

Mobility in soil: No data available

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration  $\geq 0.1\%$

12.7. Other adverse effects

None

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## SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

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## SECTION 14: Transport information

14.1. UN number or ID number

ADR-UN number: 2735

IATA-Un number: 2735

IMDG-Un number: 2735

14.2. UN proper shipping name

ADR-Shipping Name: POLYAMINES, LIQUID, CORROSIVE, N.O.S. (mixture containing Triethylenetetramine)

IATA-Technical name: POLYAMINES, LIQUID, CORROSIVE, N.O.S. (mixture containing Triethylenetetramine)

## Safety Data Sheet

### BC COMP. B 60

IMDG-Technical name:	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (mixture containing Triethylenetetramine)
14.3. Transport hazard class(es)	
ADR-Class:	8
ADR-Label:	8
ADR - Hazard identification number:	80
IATA-Class:	8
IATA-Label:	8
IMDG-Class:	8
14.4. Packing group	
ADR-Packing Group:	II
IATA-Packing group:	II
IMDG-Packing group:	II
14.5. Environmental hazards	
Marine pollutant:	No
IMDG-EMS:	F-A,S-B
14.6. Special precautions for user	
ADR-Transport category (Tunnel restriction code):	E
IMDG-Technical name:	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (mixture containing Triethylenetetramine)
14.7. Maritime transport in bulk according to IMO instruments	
N.A.	

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## SECTION 15: Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
- Dir. 98/24/EC (Risks related to chemical agents at work)
  - Dir. 2000/39/EC (Occupational exposure limit values)
  - Regulation (EC) n. 1907/2006 (REACH)
  - Regulation (EC) n. 1272/2008 (CLP)
  - Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
  - Regulation (EU) n. 2020/878
  - Regulation (EU) n. 286/2011 (ATP 2 CLP)
  - Regulation (EU) n. 618/2012 (ATP 3 CLP)
  - Regulation (EU) n. 487/2013 (ATP 4 CLP)
  - Regulation (EU) n. 944/2013 (ATP 5 CLP)
  - Regulation (EU) n. 605/2014 (ATP 6 CLP)
  - Regulation (EU) n. 2015/1221 (ATP 7 CLP)
  - Regulation (EU) n. 2016/918 (ATP 8 CLP)
  - Regulation (EU) n. 2016/1179 (ATP 9 CLP)
  - Regulation (EU) n. 2017/776 (ATP 10 CLP)
  - Regulation (EU) n. 2018/669 (ATP 11 CLP)
  - Regulation (EU) n. 2018/1480 (ATP 13 CLP)
  - Regulation (EU) n. 2019/521 (ATP 12 CLP)
  - Regulation (EU) n. 2020/217 (ATP 14 CLP)
  - Regulation (EU) n. 2020/1182 (ATP 15 CLP)
  - Regulation (EU) n. 2021/643 (ATP 16 CLP)
- Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:
- None
- Where applicable, refer to the following regulatory provisions :
- Directive 2012/18/EU (Seveso III)
  - Regulation (EC) nr 648/2004 (detergents).
  - Dir. 2004/42/EC (VOC directive)
- Provisions related to directive EU 2012/18 (Seveso III):
- Seveso III category according to Annex 1, part 1

Product belongs to category: E2

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

**SECTION 16: Other information**

Text of phrases referred to under heading 3:

- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H318 Causes serious eye damage.
- H411 Toxic to aquatic life with long lasting effects.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H317 May cause an allergic skin reaction.
- H314 Causes severe skin burns and eye damage.
- H412 Harmful to aquatic life with long lasting effects.

Hazard class and hazard category	Code	Description
Acute Tox. 4	3.1/4/Dermal	Acute toxicity (dermal), Category 4
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Corr. 1	3.2/1	Skin corrosion, Category 1
Skin Corr. 1A	3.2/1A	Skin corrosion, Category 1A
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Skin Sens. 1	3.4.2/1	Skin Sensitisation, Category 1
Skin Sens. 1,1A,1B	3.4.2/1-1A-1B	Skin Sensitisation, Category 1,1A,1B
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

This safety data sheet has been completely updated in compliance to Regulation 2020/878. Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Acute Tox. 4, H302	Calculation method
Acute Tox. 4, H312	Calculation method
Skin Corr. 1A, H314	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
Aquatic Chronic 2, H411	Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

- ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities
- SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

## Safety Data Sheet

### BC COMP. B 60

This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.