# Safety Data Sheet
# BE COMP. B 15

## Safety Data Sheet dated 14/4/2022, version 3

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

1.1. Product identifier
Mixture identification:
Trade name: BE Comp. B 15
UFI: V579-F29W-9S1V-QFRF
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 3, Harmful 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.
H412 Harmful to aquatic life with long lasting effects.
Precautionary statements:
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash the tools thoroughly after handling.
P273 Avoid release to the environment.

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

Special Provisions:
None

Contains
1,3-cicloesilenebis(metilammina)
Fenolo stirenato
3,6-diazaoctaneethylenediamin
Fatty acids,C18-unsd,dimers,olig.react.prods with tall-oil fatty acids and TETA

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 >= 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 |
|---|---|---|---|
| >= 40% - < 60% | 1,3-cicloesilenebis(metilammina) | CAS: 2579-20-6<br>EC: 219-941-5<br>REACH No.: 01-2119543741-41-xxxx | 4.1/C3 Aquatic Chronic 3 H412<br>3.1/4/Dermal Acute Tox. 4 H312<br>3.1/4/Oral Acute Tox. 4 H302<br>3.2/1A Skin Corr. 1A H314 |
| >= 10% - < 20% | Phenol styrenated | CAS: 61788-44-1<br>EC: 262-975-0<br>REACH No.: 01-2119979575-18-XXXX | 3.2/2 Skin Irrit. 2 H315<br>3.4.2/1-1A-1B Skin Sens. 1,1A,1B H317<br>4.1/C2 Aquatic Chronic 2 H411 |
| >= 10% - < 20% | 3,6-diazaoctaneethylenediamin | CAS: 90640-67-8<br>EC: 292-588-2<br>REACH No.: 01-2119487919-13-XXXX | 3.1/4/Dermal Acute Tox. 4 H312<br>3.2/1 Skin Corr. 1 H314<br>3.1/4/Oral Acute Tox. 4 H302<br>3.4.2/1-1A-1B Skin Sens. 1,1A,1B H317<br>4.1/C3 Aquatic Chronic 3 H412 |
| >= 5% - < 10% | Fatty acids,C18-unsd,dimers,olig.react.prods with tall-oil fatty acids and TEPA | CAS: 68082-29-1<br>EC: 500-191-5<br>REACH No.: 01-2119972320-44-XXXX | 3.2/2 Skin Irrit. 2 H315<br>3.3/1 Eye Dam. 1 H318<br>3.4.2/1-1A-1B Skin Sens. 1,1A,1B H317<br>4.1/C2 Aquatic Chronic 2 H411 |

## SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

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 opthalmologist 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

## 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.

## 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

## SECTION 7: Handling and storage

7.1. Precautions for safe handling

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

## SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No occupational exposure limit available

DNEL Exposure Limit Values

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

Worker Professional: 5.380 mg/m3 - Consumer: 1.600 mg/kg - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Worker Professional: 1 mg/m3 - Consumer: 0.29 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Professional: 0.028 mg/m3 - 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

Fatty acids,C18-unsd,dimers,olig.react.prods with tall-oil fatty acids and TEPA - CAS: 68082-29-1

Worker Industry: 3.9 05 - Worker Professional: 3.9 05 - Consumer: 0.97 05 - Exposure: Human Inhalation - Frequency: Long Term (repeated)
Worker Industry: 1.1 mg/kg - Worker Professional: 1.1 05 - Consumer: 0.56 mg/kg - Exposure: Human Dermal - Frequency: Long Term (repeated)

PNEC Exposure Limit Values

Fatty acids,C18-unsd,dimers,olig.react.prods with tall-oil fatty acids and TEPA - CAS: 68082-29-1

Target: Fresh Water - Value: 0.00434 mg/l
Target: Marine water - Value: 0.000434 mg/l
Target: Freshwater sediments - Value: 434.02 mg/kg
Target: Marine water sediments - Value: 43.4 mg/kg
Target: Soil (agricultural) - Value: 86.78 mg/kg

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:

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: | pale yellow | -- | -- |
| Odour: | amine | -- | -- |
| Melting point/freezing point: | Not Relevant | -- | -- |
| Boiling point or initial boiling point and boiling range: | > 200°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: | N.A. | -- | -- |
| 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: | 0.93 - 0.95 g/ml | -- | -- |
| Relative vapour density: | Not Relevant | -- | -- |
| Particle characteristics: | | | |
| Particle size: | Not Relevant | -- | -- |

9.2. Other information

No other relevant information

## 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

Stable under normal conditions.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

None.

## 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:

1,3-cicloesilenebis(metilammina) - CAS: 2579-20-6

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 700 mg/kg

Test: LD50 - Route: Skin - Species: Rat = 1.700 mg/kg

Fatty acids,C18-unsd,dimers,olig.react.prods with tall-oil fatty acids and TEPA - CAS: 68082-29-1

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg

Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg

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

LD50: 2.500 mg/kg (oral rat)

LD50: 805 mg/kg (dermal rabbit)

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 >= 0.1%

## SECTION 12: Ecological information

12.1. Toxicity

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

1,3-cicloesilenebis(metilammina) - CAS: 2579-20-6

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 64.7 mg/l - Duration h: 48

Endpoint: EBC50 - Species: Algae = 58.4 mg/l - Duration h: 72

Endpoint: LC50 - Species: Fish = 130 mg/l

Fatty acids,C18-unsd,dimers,olig.react.prods with tall-oil fatty acids and TEPA - CAS: 68082-29-1
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Algae = 1.25 mg/l - Duration h: 72
b) Aquatic chronic toxicity:
Endpoint: EC50 - Species: Fish = 7.07 mg/l

12.2. Persistence and degradability
None
IPE 15/28
Biodegradability: No data available.
1,3-cicloesilenebis(metilammina) - CAS: 2579-20-6
Biodegradability: Not easily biodegradable
3,6-diazaoctaneethylenediamin - CAS: 90640-67-8
Biodegradability: not biodegradable
Fatty acids,C18-unsd,dimers,olig.react.prods with tall-oil fatty acids and TEPA - CAS: 68082-29-1
Biodegradability: Non-readily biodegradable

12.3. Bioaccumulative potential
IPE 15/28
Bioaccumulation: Information not available
1,3-cicloesilenebis(metilammina) - CAS: 2579-20-6
Bioaccumulation: Information not available
3,6-diazaoctaneethylenediamin - CAS: 90640-67-8
Bioaccumulation: Shortly bioaccumulative.
Fatty acids,C18-unsd,dimers,olig.react.prods with tall-oil fatty acids and TEPA - CAS: 68082-29-1
Bioaccumulation: Not bioaccumulative

12.4. Mobility in soil
IPE 15/28
Mobility in soil: No data available
1,3-cicloesilenebis(metilammina) - CAS: 2579-20-6
Mobility in soil: No data available
3,6-diazaoctaneethylenediamin - CAS: 90640-67-8
Mobility in soil: No data available
Fatty acids,C18-unsd,dimers,olig.react.prods with tall-oil fatty acids and TEPA - CAS: 68082-29-1
Mobility in soil: Not mobile

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 >= 0.1%

12.7. Other adverse effects
None

## 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.

## 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: POLYAM.,LIQUID,CORROS.,N.O.S.(mixture containing 1,3-cyclohexanedimethanamine;Triethylenetetramine
IATA-Technical name: POLYAM.,LIQUID,CORROS.,N.O.S.(mixture containing 1,3-cyclohexanedimethanamine;Triethylenetetramine
IMDG-Technical name: POLYAM.,LIQUID,CORROS.,N.O.S.(mixture containing 1,3-cyclohexanedimethanamine;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: POLYAM.,LIQUID,CORROS.,N.O.S.(mixture containing 1,3-cyclohexanedimethanamine;Triethylenetetramine

14.7. Maritime transport in bulk according to IMO instruments
N.A.

## 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
None

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

| 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 |
| 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 3, H412 | 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.
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. |