

Safety Data Sheet



Trade name : BLUEBELLS B 4688 - SHK/KEVA/COBRA
Revision date : 16.05.2024
Print date : 05/16/2024
Version (Revision) : 2.1.0 (2.0.1)

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

1.1 Product identifier

BLUEBELLS B 4688 - SHK/KEVA/COBRA

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

Relevant identified uses

Fragrance ingredient which may be used in fragrance compounds according to the current legislation and IFRA rules.
Reserved for industrial and professional use.

Uses advised against

Not intended for oral consumption.

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

KEVA GROUP

Street : LAL BAHADUR SHASHTRI 636-637

Postal code/city : 400 080 MUMBAI

Telephone : +91 22 2167 7942

Telefax : +91 22 2164 9766

Information contact : regulatory.affairs@keva.co.in

1.4 Emergency telephone number

+31 342 407 793 Austria: +43 13 13 04 56 20 // Belgium: +32 02 26 49 63 6 // Bulgaria: +35 92 91 54 40 9 // Croatia: +38 50 14 64 13 68 // Cyprus: +35 72 24 05 61 1 // Czech Republic: +42 02 24 91 92 93 // Denmark: +45 72 54 40 00 // Estonia: +37 26 26 93 79 // Finland: 09 471 977 // France: +33 14 04 43 00 0 // Germany: +49 30 18 41 23 46 0 // Greece: +30 21 06 47 94 09 // Hungary: +36 80 20 11 99 // Ireland: +35 31 80 92 56 6 // Italy: +39 06 49 90 61 40 // Latvia: +37 16 70 32 60 0 // Lithuania: +37 07 06 62 00 8 // Luxembourg: +35 22 47 85 55 1 // Netherlands: +31 88 75 58 56 1 // Norway: +47 73 58 05 00 // Poland: +48 42 25 38 40 0 // Portugal: +35 12 13 30 32 71 // Romania: +40 21 31 83 60 6 // Serbia: +38 11 17 15 52 25 // Slovakia: +42 12 54 65 23 07 // Slovenia: +38 61 40 06 05 1 // Spain: +34 91 76 89 80 0 // Sweden: +46 83 31 23 1 // United Kingdom: 111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

Aquatic Acute 1 ; H400 - Hazardous to the aquatic environment : Acute 1 ; Very toxic to aquatic life.

Aquatic Chronic 1 ; H410 - Hazardous to the aquatic environment : Chronic 1 ; Very toxic to aquatic life with long lasting effects.

Carc. 2 ; H351 - Carcinogenicity : Category 2 ; Suspected of causing cancer.

Eye Dam. 1 ; H318 - Serious eye damage/eye irritation : Category 1 ; Causes serious eye damage.

Skin Irrit. 2 ; H315 - Skin corrosion/irritation : Category 2 ; Causes skin irritation.

Repr. 1B ; H360F - Reproductive toxicity : Category 1B ; May damage fertility.

Skin Sens. 1 ; H317 - Skin sensitisation : Category 1 ; May cause an allergic skin reaction.

2.2 Label elements

Labelling according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

Hazard pictograms

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Health hazard (GHS08) · Corrosion (GHS05) · Environment (GHS09) · Exclamation mark (GHS07)

Signal word

Danger

Hazard components for labelling

(R)-P-MENTHA-1,8-DIENE ; CAS No. : 5989-27-5
LINALYL ACETATE ; CAS No. : 115-95-7
LINALOOL ; CAS No. : 78-70-6
[3R-(3A,3AB,7B,8AA)]-1-(2,3,4,7,8,8A-HEXAHYDRO-3,6,8,8-TETRAMETHYL-1H-3A,7-METHANOAZULEN-5-YL)ETHAN-1-ONE ; CAS No. : 32388-55-9
4'-TERT-BUTYL-2',6'-DIMETHYL-3',5'-DINITROACETOPHENONE ; CAS No. : 81-14-1
BOISAMBRENE FORTE ; CAS No. : 58567-11-6
2-(4-TERT-BUTYLBENZYL)PROPIONALDEHYDE ; CAS No. : 80-54-6
GERANIOL 60 ; CAS No. : 106-24-1
PENTADECAN-15-OLIDE ; CAS No. : 106-02-5
(+)-3,7-DIMETHYLOCT-6-EN-1-OL ; CAS No. : 106-22-9
2(10)-PINENE ; CAS No. : 127-91-3
GERANYL ACETATE ; CAS No. : 105-87-3
COUMARIN ; CAS No. : 91-64-5
P-MENTHA-1,4(8)-DIENE ; CAS No. : 586-62-9
HYDROXYCITRONELLAL ; CAS No. : 107-75-5
3-METHYL-4-(2,6,6-TRIMETHYL-2-CYCLOHEXEN-1-YL)-3-BUTEN-2-ONE ; CAS No. : 127-51-5
CITRAL EX LEMONGRASS ; CAS No. : 5392-40-5
1,3,4,6,7,8A-HEXAHYDRO-1,1,5,5-TETRAMETHYL-2H-2,4A-METHANONAPHTALEN-8(5H)-ONE ; CAS No. : 23787-90-8
ORANGE OIL, SWEET ; CAS No. : 8028-48-6
CINEOLE ; CAS No. : 470-82-6

Hazard statements

H360F May damage fertility.
H351 Suspected of causing cancer.
H318 Causes serious eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P310 Immediately call a POISON CENTER/doctor/....
P321 Specific treatment (see..... on this label).
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405 Store locked up.

2.3 Other hazards

None

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

- (R)-P-MENTHA-1,8-DIENE ; EC No. : 227-813-5; CAS No. : 5989-27-5
 Weight fraction : $\geq 2.5 - < 10 \%$
 Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 Skin Irrit. 2 ; H315 Skin Sens. 1B ; H317 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410
- LINALYL ACETATE ; EC No. : 204-116-4; CAS No. : 115-95-7
 Weight fraction : $\geq 2.5 - < 10 \%$
 Classification 1272/2008 [CLP] : Flam. Liq. 4 ; H227 Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319 Aquatic Acute 3 ; H402
- LINALOOL ; REACH No. : 01-2119474016-42-0000 ; EC No. : 201-134-4; CAS No. : 78-70-6
 Weight fraction : $\geq 2.5 - < 10 \%$
 Classification 1272/2008 [CLP] : Flam. Liq. 4 ; H227 Skin Irrit. 2 ; H315 Skin Sens. 1B ; H317 Eye Irrit. 2 ; H319 Acute Tox. 5 ; H303 Aquatic Acute 3 ; H402
- [3R-(3A,3AB,7B,8AA)]-1-(2,3,4,7,8,8A-HEXAHYDRO-3,6,8,8-TETRAMETHYL-1H-3A,7-METHANOAZULEN-5-YL)ETHAN-1-ONE ; EC No. : 251-020-3; CAS No. : 32388-55-9
 Weight fraction : $\geq 2.5 - < 10 \%$
 Classification 1272/2008 [CLP] : Skin Sens. 1B ; H317 Skin Irrit. 3 ; H316 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410
- 4'-TERT-BUTYL-2',6'-DIMETHYL-3',5'-DINITROACETOPHENONE ; EC No. : 201-328-9; CAS No. : 81-14-1
 Weight fraction : $\geq 1 - < 2.5 \%$
 Classification 1272/2008 [CLP] : Carc. 2 ; H351 Skin Irrit. 3 ; H316 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410
- BOISAMBRENE FORTE ; EC No. : 261-332-1; CAS No. : 58567-11-6
 Weight fraction : $\geq 1 - < 2.5 \%$
 Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Skin Sens. 1B ; H317 Aquatic Chronic 2 ; H411 Aquatic Acute 2 ; H401
- 2-(4-TERT-BUTYLBENZYL)PROPIONALDEHYDE ; EC No. : 201-289-8; CAS No. : 80-54-6
 Weight fraction : $\geq 1 - < 2.5 \%$
 Classification 1272/2008 [CLP] : Flam. Liq. 4 ; H227 Repr. 1B ; H360Fd Acute Tox. 4 ; H302 Skin Irrit. 2 ; H315 Skin Sens. 1B ; H317 Aquatic Chronic 3 ; H412 Aquatic Acute 2 ; H401
- GERANIOL 60 ; EC No. : 203-377-1; CAS No. : 106-24-1
 Weight fraction : $\geq 1 - < 2.5 \%$
 Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318 Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Acute Tox. 5 ; H303 Aquatic Acute 3 ; H402
- PENTADECAN-15-OLIDE ; EC No. : 203-354-6; CAS No. : 106-02-5
 Weight fraction : $\geq 1 - < 2.5 \%$
 Classification 1272/2008 [CLP] : Skin Sens. 1B ; H317 Skin Irrit. 3 ; H316 Aquatic Chronic 2 ; H411
- P-MENTH-1-EN-8-OL ; REACH No. : 01-2119980717-23-0001 ; EC No. : 202-680-6; CAS No. : 98-55-5
 Weight fraction : $\geq 1 - < 2.5 \%$
 Classification 1272/2008 [CLP] : Flam. Liq. 4 ; H227 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319 Acute Tox. 5 ; H303 Aquatic Acute 2 ; H401
- (+)-3,7-DIMETHYLOCT-6-EN-1-OL ; EC No. : 203-375-0; CAS No. : 106-22-9
 Weight fraction : $\geq 0.1 - < 1 \%$
 Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Skin Sens. 1B ; H317 Eye Irrit. 2 ; H319 Acute Tox. 5 ; H303 Acute Tox. 5 ; H313 Aquatic Acute 2 ; H401
- 2(10)-PINENE ; EC No. : 204-872-5; CAS No. : 127-91-3
 Weight fraction : $\geq 0.25 - < 1 \%$

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Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 Skin Irrit. 2 ; H315 Skin Sens. 1B ; H317 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

GERANYL ACETATE ; EC No. : 203-341-5; CAS No. : 105-87-3

Weight fraction : $\geq 0.1 - < 1\%$
Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Skin Sens. 1B ; H317 Aquatic Chronic 3 ; H412 Aquatic Acute 2 ; H401

COUMARIN ; EC No. : 202-086-7; CAS No. : 91-64-5

Weight fraction : $\geq 0.1 - < 1\%$
Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302 Skin Sens. 1B ; H317 Aquatic Acute 3 ; H402

P-MENTHA-1,4(8)-DIENE ; EC No. : 209-578-0; CAS No. : 586-62-9

Weight fraction : $\geq 0.25 - < 1\%$
Classification 1272/2008 [CLP] : Flam. Liq. 4 ; H227 Asp. Tox. 1 ; H304 Skin Sens. 1B ; H317 Acute Tox. 5 ; H303 Skin Irrit. 3 ; H316 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

HYDROXYCITRONELLAL ; EC No. : 203-518-7; CAS No. : 107-75-5

Weight fraction : $\geq 0.1 - < 1\%$
Classification 1272/2008 [CLP] : Skin Sens. 1B ; H317 Eye Irrit. 2 ; H319 Aquatic Acute 3 ; H402

3-METHYL-4-(2,6,6-TRIMETHYL-2-CYCLOHEXEN-1-YL)-3-BUTEN-2-ONE ; REACH No. : 01-2119471851-35-0005 ; EC No. : 204-846-3; CAS No. : 127-51-5

Weight fraction : $\geq 0.1 - < 1\%$
Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Skin Sens. 1B ; H317 Eye Irrit. 2B ; H320 Aquatic Chronic 2 ; H411 Aquatic Acute 2 ; H401

CITRAL EX LEMONGRASS ; EC No. : 226-394-6; CAS No. : 5392-40-5

Weight fraction : $\geq 0.1 - < 1\%$
Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Skin Sens. 1B ; H317 Eye Irrit. 2 ; H319 Acute Tox. 5 ; H313 Aquatic Acute 2 ; H401

ORANGE OIL, SWEET ; REACH No. : 01-2119493353-35-0013 ; EC No. : 232-433-8; CAS No. : 8028-48-6

Weight fraction : $\geq 0.1 - < 1\%$
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Aquatic Chronic 2 ; H411 Aquatic Acute 2 ; H401

1,3,4,6,7,8A-HEXAHYDRO-1,1,5,5-TETRAMETHYL-2H-2,4A-METHANONAPHTALEN-8(5H)-ONE ; EC No. : 245-890-3; CAS No. : 23787-90-8

Weight fraction : $\geq 0.1 - < 1\%$
Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Skin Sens. 1B ; H317 Acute Tox. 5 ; H303 Aquatic Chronic 2 ; H411 Aquatic Acute 2 ; H401

CINEOLE ; EC No. : 207-431-5; CAS No. : 470-82-6

Weight fraction : $\geq 0.1 - < 1\%$
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Skin Sens. 1B ; H317 Acute Tox. 5 ; H303 Skin Irrit. 3 ; H316

MYRCENE ; EC No. : 204-622-5; CAS No. : 123-35-3

Weight fraction : $< 0.25\%$
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319 Aquatic Acute 1 ; H400 Aquatic Chronic 2 ; H411

Additional information

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Medical treatment necessary. Call a physician in any case! Remove victim out of the danger area. Put victim at rest,

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cover with a blanket and keep warm. Do not leave affected person unattended. If unconscious place in recovery position and seek medical advice.

Following inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

In case of skin contact

Change contaminated, saturated clothing. In case of skin reactions, consult a physician. After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician. Water Do not wash with: Solvents/Thinner

After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water. Call a physician immediately.

After ingestion

Rinse mouth thoroughly with water. Call a physician in any case! Let water be drunk in little sips (dilution effect). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Allergic reactions. Causes serious eye damage. Irritating to skin.

4.3 Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

alcohol resistant foam Extinguishing powder

Unsuitable extinguishing media

Strong water jet Water mist

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In case of fire may be liberated: Carbon dioxide (CO₂) Carbon monoxide (CO).

5.3 Advice for firefighters

Do not inhale explosion and combustion gases. Use water spray jet to protect personnel and to cool endangered containers. Very toxic to aquatic life. May cause long lasting harmful effects to aquatic life.

Special protective equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Special danger of slipping by leaking/spilling product. See protective measures under point 7 and 8.

6.2 Environmental precautions

In case of entry into waterways, soil or drains, inform the responsible authorities. Very toxic to aquatic life. May cause long lasting harmful effects to aquatic life.

6.3 Methods and material for containment and cleaning up

Suitable material for taking up: Sand Kieselguhr Universal binder Sawdust Collect in closed and suitable containers for disposal.

6.4 Reference to other sections



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See protective measures under point 7 and 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Wear personal protection equipment (refer to section 8). All work processes must always be designed so that the following is as low as possible: eye contact, skin contact. inhalation of vapours or spray/mists.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Ensure adequate ventilation of the storage area. Keep/Store only in original container. Use isolated drainage to prevent discharge to soil. Restrict access to stockrooms.

Hints on joint storage

Keep away from oxidising agent , acid and alkali .

7.3 Specific end use(s)

None

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

To date, no national critical limit values exist.

8.2 Exposure controls

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work.

Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Personal protection equipment

Eye/face protection

Eye glasses with side protection

Skin protection

Hand protection

Hand protection is not required

Body protection

Overall

Respiratory protection

Respiratory protection necessary at: exceeding exposure limit values insufficient ventilation insufficient exhaust Handling larger quantities. Container device with compressed air (DIN EN 137) / Filtering device (full mask or mouthpiece) with filter: Filter types: A, B, E, K. Class 1: Maximum permitted contaminant concentration in inhaled air = 1000 mL/m³ (0.1 % by vol.); class 2: maximum permitted contaminant concentration in inhaled air = 5000 mL/m³ (0.5 % by vol.); class 3: maximum permitted contaminant concentration in inhaled air = 10000 mL/m³ (1.0 % by vol.)

Environmental exposure controls

Send to a hazardous waste incinerator facility under observation of official regulations.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

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Safety characteristics

Flash point (Closed Cup) : = 130 °C DIN EN 51578

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

No information available.

10.3 Possibility of hazardous reactions

No information available.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

Exothermic reaction with: oxidising agent strong acid strong alkali

10.6 Hazardous decomposition products

Decomposition with: Carbon dioxide, Carbon monoxide (CO).

SECTION 11: Toxicological information

This mixture has not been subjected to Toxicological testing as an entity. According to the available data on the constituents the health classification criteria are met.

SECTION 12: Ecological information

This mixture has not been subjected to Ecotoxicological testing as an entity. According to the available data on the constituents the health classification criteria are met.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Send to a hazardous waste incinerator facility under observation of official regulations. Clean IBCs or drums at approved facility only. Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

14.1 UN number

UN 3082

14.2 UN proper shipping name

Land transport (ADR/RID)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (dipentene · ACETYL CEDRENE)

Sea transport (IMDG)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (dipentene · ACETYL CEDRENE · T-BUTYL DIMETHYL

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DINITROACETOPHENONE · PENTADECAN-15-OLIDE)

Air transport (ICAO-TI / IATA-DGR)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (dipentene · ACETYL CEDRENE)

14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es) : 9
Classification code : M6
Hazard identification number (Kemler No.) : 90
Tunnel restriction code : -
Special provisions : E 1 · ADR : - (SP 375 <= 5 l/kg)
Hazard label(s) : 9 / N

Sea transport (IMDG)

Class(es) : 9
EmS-No. : F-A / S-F
Special provisions : LQ 5 l · E 1 · IMDG : - (SP 2.10.2.7 <= 5 l/kg)
Hazard label(s) : 9 / N

Air transport (ICAO-TI / IATA-DGR)

Class(es) : 9
Special provisions : E 1 · IATA : - (SP A197 <= 5 l/kg)
Hazard label(s) : 9 / N

14.4 Packing group

III

14.5 Environmental hazards

Land transport (ADR/RID) : Yes
Sea transport (IMDG) : Yes (P)
Air transport (ICAO-TI / IATA-DGR) : Yes

14.6 Special precautions for user

None

SECTION 15: Regulatory information

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

National regulations

Water hazard class (WGK)

Class : water pollutant Classification according to AwSV

Other regulations, restrictions and prohibition regulations which apply

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

16.1 Indication of changes

None

16.2 Abbreviations and acronyms



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a.i. = Active ingredient; ACGIH = American Conference of Governmental Industrial Hygienists (US); ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road; AFFF = Aqueous Film Forming Foam; AICS = Australian Inventory of Chemical Substances; AISE = International Association for Soaps, Detergents and Maintenance Products (joint project of AISE and CEFIC); AOAC = AOAC International (formerly Association of Official Analytical Chemists); aq. = Aqueous; Asia-PAC = Asia Pacific; ASTM = American Society of Testing and Materials (US); atm = Atmosphere(s); B.V. = Beperkt Vennootschap (LTD = Limited); BCF = Bioconcentration Factor; bp = Boiling point at stated pressure; bw = Body weight; ca = (Circa) about; CAS No = Chemical Abstracts Service Number (see ACS - American Chemical Society); CEFIC = European Chemical Industry Council (established 1972); CEPA = Canadian Environmental Protection Act (CAN); CEPA = Canadian Environmental Protection Act (Canada); CIPAC = Collaborative International Pesticides Analytical Council; CLP = REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.; CoE = Council of Europe (EU); Conc = Concentration; cP = CentiPoise; CSNN = Chemical Substance Nomination & Notification (Taiwan); cSt = Centistokes; d = Day(s); DIN = Deutsches Institut für Normung e.V.; DNEL = Derived No-Effect Level; DSL = Domestic Substances List; DT50 = Time for 50% loss; half-life; EbC50 = Median effective concentration (biomass, e.g. of algae); EC = European Community; European Commission; EC50 = Median effective concentration; ECL = Existing Chemicals List (Korea); EINECS = European Inventory of Existing Commercial Chemical Substances (EU, outdated, now replaced by EC Number); ELINCS = European List of Notified (New) Chemicals; ENCS = Existing and New Chemical Substances Inventory (Japan); ErC50 = Median effective concentration (growth rate, e.g. of algae); EU = European Union; EWC = European Waste Catalogue; FAO = Food and Agriculture Organization (United Nations); FEMA = Flavor & Extract Manufacturers Association (USA); FLAVIS = Flavour Information System (EU); GIFAP = Groupement International des Associations Nationales de Fabricants de Produits Agrochimiques (now CropLife International); GRAS = Generally Recognized As Safe (USA); h = Hour(s); hPa = HectoPascal (unit of pressure); IARC = International Agency for Research on Cancer; IATA = International Air Transport Association; IC50 = Concentration that produces 50% inhibition; IECSC = Inventory of Existing Chemical Substances (China); IMDG Code = International Maritime Dangerous Goods Code; IMO = International Maritime Organization; ISO = International Organization for Standardization; IUCLID = International Uniform Chemical Information Database; IUPAC = International Union of Pure and Applied Chemistry; IVIS = In-Vitro Irritancy Score; JECFA = Joint Expert Committee on Food Additives (United Nations); kg = Kilogram; Kow = Distribution coefficient between n-octanol and water; kPa = KiloPascal (unit of pressure); LC50 = Concentration required to kill 50% of test organisms; LD50 = Dose required to kill 50% of test organisms; LEL = Lower Explosive Limit/Lower Explosion Limit; LOAEL = Lowest observed adverse effect level; LVE = Low Volume Exemption; mg = Milligram; min = Minute(s); ml = Milliliter; mmHg = Pressure equivalent to 1 mm of mercury (133.3 Pa); mp = Melting point; MRL = Maximum Residue Limit; MSDS = Material Safety Data Sheet; n.o.s. = Not Otherwise Specified; NDSL = Non-Domestic Substances List; NIOSH = National Institute for Occupational Safety and Health (US); NOAEL = No Observed Adverse Effect Level; NOEC = No observed effect concentration; NOEL = No Observable Effect Level; NOx = Oxides of Nitrogen; NZIoC = New Zealand Inventory of Chemicals; OECD = Organization for Economic Cooperation and Development; OEL = Occupational Exposure Limits; Pa = Pascal (unit of pressure); PBT = Persistent, Bioaccumulative or Toxic; pH = -log₁₀ hydrogen ion concentration; PICCS = Philippine Inventory of Chemicals and Chemical Substances; pKa = -log₁₀ acid dissociation constant; PNEC = Predicted No Effect Concentration; POPs = Persistent Organic Pollutants; ppb = Parts per billion; PPE = Personal Protection Equipment; ppm = Parts per million; ppt = Parts per trillion; PVC = Polyvinyl Chloride; QSAR = Quantitative Structure-Activity Relationship; REACH = Registration, Evaluation and Authorization of Chemicals (EU, see NCP); SI = International System of Units; STEL = Short-Term Exposure Limit; tech. = Technical grade; TSCA = Toxic Substances Control Act (US); TSCA = Toxic Substances Control Act (USA); TWA = Time-Weighted Average; UN = United Nations; vPvB = Very Persistent and Very Bioaccumulative; VwVwS = Verwaltungsvorschrift wassergefährdender Stoffe; WHO = World Health Organization = OMS; y = Year(s);

16.3 Key literature references and sources for data

None

16.5 Relevant H- and EUH-phrases (Number and full text)

H226	Flammable liquid and vapour.
H227	Combustible liquid.
H302	Harmful if swallowed.
H303	May be harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H313	May be harmful in contact with skin.
H315	Causes skin irritation.

Safety Data Sheet



Trade name : BLUEBELLS B 4688 - SHK/KEVA/COBRA

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H316	Causes mild skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H320	Causes eye irritation.
H351	Suspected of causing cancer.
H360Fd	May damage fertility. Suspected of damaging the unborn child.
H400	Very toxic to aquatic life.
H401	Toxic to aquatic life.
H402	Harmful to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

16.6 Training advice

None

16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.
