Complying with Regulation (EC) No 1272/2008 (CLP) as amended by Commission Regulation (EU) 2015/830.

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name: KB-65 POWDER
CAS Number: Not applicable
EC Number: Not applicable
REACH No: Not available

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

Insecticide

Uses advised against
Uses other than as mentioned above.

1.3 Details of the supplier of the safety data sheet

Distributed By:
Company Name: CTS Ltd. – AGRICA.

Company Address: 4 Haharash Street,
Hod Hasharon 45240, Israel
P.O. Box 10 Tel-Aviv, Israel

Company Tel: 09-7626257
Company Fax: 09-7626327

Manufactured By:
Company Name: Dr. Meron Chemical industries Ltd.

Company Address: 3 Josef Levi st. Haifa Bay

Haifa, Israel 2629103

Company Tel: 04-8721464
Company Fax: 04-8721963

E-mail address of person responsible for this SDS: erezbn@cts.co.il

1.4 Emergency telephone number

Emergency telephone number: +972-9-7626333
www.agrica.co.il

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification in accordance to Regulation (EC) No. 1272/2008 (CLP/GHS)

Product name	GHS Classification
KB-65 POWDER	Aquatic Acute Cat 1, H400 Aquatic Chronic Cat 1, H410

2.2 Label elements

Labeling in accordance with Regulation 1272/2008 (CLP)
Hazard pictograms:

Signal word: **WARNING**

Hazard statements: H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements: P273 - Avoid release to the environment.
P391 - Collect spillage.
P501 - Dispose of contents/containers to an approved disposal site in accordance with local/regional/national/international regulations.

Supplemental Hazard Statements. None known

2.3 Other hazards

This substance/mixture contains no components considered to be either Persistent, Bioaccumulative and Toxic (PBT), or very Persistent and very Bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance : Not applicable

3.2 Mixtures:

Product/ Ingredient name	Identifiers	%	Regulation (EC) No 1272/2008	M Factor	SCL
Hydrous magnesium silicate (Talc)	CAS No 14807-96-6 EC No 238-877-9	99.12%	Not classified as hazardous under CLP	n/a	n/a
Bifenthrin	CAS No 82657-04-3 Index No 613-022-00-6	0.88%	Carcinogenicity Cat 2, H351 Acute Tox. Inhalation Cat 3, H331 Acute Toxicity Cat 2, H300 STOT RE 1, H372 (nervous system) Skin Sensitisation Cat 1B, H317 Aquatic Acute Cat 1, H400 Aquatic Chronic Cat 1, H410	M = 10,000 (acute) M = 100,000 (chronic)	n/a

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in section 8.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Eyes contact: In case of contact, immediately flush eyes with plenty of water for at least 15 - 20 minutes, lifting upper and lower eyelids occasionally. Get medical attention.

Skin contact: Immediately wash skin with soap and plenty of water. Remove contaminated clothing and wash or dispose of clothing before re-use. Get medical attention if symptoms occur.

Inhalation: Remove to fresh air. Perform artificial respiration if breathing has stopped. When breathing is difficult, properly trained personnel may administer oxygen. Keep affected person warm and at rest. Obtain medical attention.

Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. Obtain medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed
None expected.

4.3 Indication of any immediate medical attention and special treatment needed
If any symptoms are observed, contact a physician and give them this SDS sheet.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media: Do not use direct stream of water.

5.2 Special hazards arising from the substance or mixture
None expected.

Hazardous combustion products:
Magnesium oxide, silicon oxides, carbon oxides, hydrogen chloride gas, hydrogen fluoride.

5.3 Advice for firefighters
Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Wear other appropriate protective equipment as conditions warrant (see Section 8).

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
For non-emergency personnel
No action shall be taken involving any personal risk or without suitable training.
Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering.

For emergency responders
Wear respiratory protection. Avoid breathing vapours, mist, dust or gas. Ensure adequate ventilation.
Evacuate personnel to safe areas.
Wear appropriate protective equipment, such as gloves, goggles and protective clothing, as conditions warrant (see Section 8). See Sections 2 and 7 for additional information on hazards and precautionary measures.

6.2 Environmental precautions
Do not allow material to contaminate ground water system. Prevent product from entering drains. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways or air).

6.3 Methods and materials for containment and cleaning up
Dike and contain spill with inert material (e.g. sand, earth). Transfer to covered and labelled containers for recovery or disposal. Prevent contamination of sewers, streams and groundwater with spilled material or used materials.

6.4 Reference to other sections
See Section 1 for emergency contact information.
See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling
Keep out of reach of children. Not for consumption. No smoking. Avoid contact with body. Wash hands thoroughly after handling. Use adequate ventilation and appropriate respiratory protection to avoid breathing dust or aerosols when cover is removed.

7.2 Conditions for safe storage, including any incompatibilities
Keep container closed when not in use, store in a dry well-ventilated area, out of the sun and away from ignition sources. Do not remove or deface label. Prevent water or moist air from entering container.

7.3 Specific end use(s):

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limit values:

Ingredient name	CAS Number	Occupational exposure limits		Source
Hydrous magnesium silicate (Talc)	14807-96-6	TWA	1 mg/m3 (respirable)	EH40 Workplace Exposure limits
		STEL	None known	
Bifenthrin	82657-04-3	TWA	None known	EH40 Workplace Exposure limits
		STEL	None known	

8.2 Exposure controls

Appropriate Engineering Measures
Use process enclosures, local exhaust ventilation, or others engineering controls to keep airborne levels below recommend exposure limits. If user operations generate vapours, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Individual protection measures, such as personal protective equipment:

Eye and face protection:
Wear safety glasses with side shields. Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU).

Skin protection:
None usually required. If risk assessment shows that skin protection is required, then the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hand protection:
None usually required unless risk assessment shows that this is necessary. In which case, wear chemical resistant gloves, such as nitrile rubber to prevent repeated or prolonged skin contact. 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.

Other skin protection:
The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection:
Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as CEN (EU).

Thermal hazards:
None known

Environmental exposure controls:
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	White Powder
Colour:	White.
Odour:	No data available
Odour threshold:	No data available
pH:	7.8 (10 gr /100 ml)
Melting point/Freezing point:	No data available
Initial boiling point/boiling range:	
Flash point:	No data available
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Upper/lower flammability or explosive limits:	No data available
Vapour pressure:	No data available
Vapour density (air=1):	No data available
Relative Density:	0.87 g/cm3
Solubility(ies):	No data available
Partition coefficient Octanol/Water:	No data available
Auto-ignition temperature:	No data available

Decomposition temperature:	No data available
Viscosity:	No data available
Explosive properties:	No data available
Oxidising properties:	No data available

9.2 Other information:
None known

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity
Not expected to be reactive.

10.2 Chemical stability
Stable under normal ambient and anticipated conditions of use.

10.3 Possibility of hazardous reactions
Hazardous reactions not anticipated under normal temperature and pressures.

10.4 Conditions to avoid
None known.

10.5 Incompatible materials
Avoid contact with strong oxidising materials.

10.6 Hazardous Decomposition products:
Magnesium oxide, silicon oxides, carbon oxides, hydrogen chloride gas, hydrogen fluoride.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:

Product Toxicity:
LD50 Oral:
The acute oral median lethal dose (LD50 cut-off value) of KB-65 in Wistar rats was found to be 5000 mg/kg body weight. Based on the results of this study, an indication of the classification for KB-65 is as follows:
Globally Harmonized System of Classification and Labelling of Chemicals (GHS 2015) : Category 5 or Unclassified. ***As EU GHS (CLP) does not adopt Category 5, KB-65 will not be classified as hazardous.***

LD50 Dermal:
The acute dermal median lethal dose (LD50) of KB-65 in Wistar rats (males and females) was found to be greater than 2000 mg/kg body weight.
Based on the results of this study, an indication of the classification for KB-65 is as follows:
Globally Harmonized System of Classification and Labelling of Chemicals (GHS 2015): Category 5 or Unclassified. ***As EU GHS (CLP) does not adopt Category 5, KB-65 will not be classified as hazardous.***

LD50 Inhalation:
The 4 h acute inhalation median lethal concentration (LC50) of KB-65 (Bifenthrin) in rats was found to be greater than breathing zone concentration of 5.170 mg KB-65 (Bifenthrin)/L air. Based on the results of this study, an indication of the classification for KB-65 (Bifenthrin) is as follows:

Globally Harmonized System of Classification and Labelling of Chemicals (GHS 2015): Category 5 or Unclassified ***As EU GHS (CLP) does not adopt Category 5, KB-65 will not be classified as hazardous***.

Product/ingredient name	Test	Species	Dose
Hydrous magnesium silicate (Talc)	LD_{50} Oral	Rat	No data available
	LD_{50} Dermal	Rabbit	No data available
	LD_{50} Inhalation	Rat	No data available
Bifenthrin	LD_{50} Oral	Rat	>50-300mg/kg
	LD_{50} Dermal	Rat	> 2,000-5000 mg/kg
	LC_{50} Inhalation	Rat	1.01 mg/L

Skin corrosion/irritation: Based on the results of this study, an indication of the classification for KB-65 (Bifenthrin) is as follows:
Globally Harmonized System of Classification and Labelling of Chemicals (GHS 2015): **Not classified as a skin irritant**.

Serious eye damage/eye irritation: Based on the results of this study, an indication of the classification for KB-65 (Bifenthrin) is as follows:
Not classified as an eye irritant.

Respiratory or skin sensitisation: KB-65 (Bifenthrin) is being classified as follows:
Globally Harmonized System of Classification and Labelling of Chemicals (GHS 2015): **Not considered as positive**

Germ cell mutagenicity: Not expected to cause germ cell mutagenicity.

Carcinogenicity: Not expected to be a carcinogen.

Reproductive toxicity: Not expected to cause reproductive toxicity.

STOT - Single exposure: Not expected to cause specific target organ toxicity from a single exposure.

STOT - Repeat exposure: Not expected to cause specific target organ toxicity from repeated exposure.

Aspiration hazard: Not expected to be an aspiration hazard.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:
This product contains components that will normally float on water. These components may be harmful to aquatic organisms and may cause long term adverse effects in the aquatic environment. Components may be toxic to freshwater and saltwater ecosystems.

Substance name	Toxicity to fish / other aquatic invertebrates
Hydrous magnesium silicate	No data available
Bifenthrin	Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 0.15 µg/l - 96.0 h Toxicity to daphnia LC50 - Daphnia magna (Water flea) - 0.32 µg/l - 48 h

12.2 Persistence and Degradability:
This product is not biodegradable.

12.3 Bioaccumulative potential:
No data available.

12.4 Mobility in soil:
No data available.

12.5 Results of PBT and vPvB assessment:
No data available.

12.6 Other adverse effects:
Very toxic to aquatic life with long lasting effects.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Product
Chemical residues may be classified as hazardous waste, and are covered by regulations which vary according to location. Contact your local waste disposal authority for advice, or pass to a chemical disposal company.

Contaminated packaging
Contaminated packaging may contain traces of the product and therefore should be disposed of in the same way as product.

SECTION 14: TRANSPORT INFORMATION

International transport regulations
14.1 UN number:
ADR/RID: UN 3077 IMDG: UN 3077 IATA: UN 3077

14.2 Proper shipping name:
ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S. (CONTAINS BIFENTHRIN)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S. (CONTAINS BIFENTHRIN)

IATA: Environmentally Hazardous Substances, Solid, n.o.s. (contains Bifenthrin)

14.3 Transport hazard class(es)
ADR/RID: 9 IMDG: 9 IATA: 9

14.4 Packing group
ADR/RID: na IMDG: na IATA: na

14.5 Environmental hazard
Marine Pollutant: Yes

14.6 Special precautions for user
No data available

14.7 Transport to bulk according to Annex II of MARPOL and the IBC Code
No data available

Section 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
This safety datasheet complies with the requirements of:
EU Commission Regulation (EU) 2015/830 (Reach)
EU Regulation (EC) No 1272/2008 (CLP)
All ingredients are listed on the European Union chemical inventory.

15.2 Chemical safety assessment
For this product, a chemical safety assessment was not carried out.

Section 16: OTHER INFORMATION

Indications of change: New document.

Full text of H-Statements referred to under sections 2 and 3.

H300	Fatal if swallowed.
H317	May cause an allergic skin reaction.
H331	Toxic if inhaled.
H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects

Full text of P-Statements referred to under sections 2.

P273	Avoid release to the environment.
P391	Collect spillage.
P501	Dispose of contents/containers to an approved disposal site in accordance with local/regional/national/international regulations.

Training advice: Before using/handling the product one must read carefully present SDS.

Abbreviations and acronyms:

CAS:	Chemical Abstracts Service (division of the American Chemical Society)
EH40:	The official name for the occupational exposure limits document for the EU
IMDG:	International Maritime Code for Dangerous Goods
IATA:	International Air Transport Association
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals
EC50:	Half maximal effective concentration
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent

M-factor:	Multiplying factor used to calculate classifications
n/a:	Not Applicable
SCL:	Specific concentration limits.
STOT SE:	Specific target organ toxicity - single exposure
STOT RE:	Specific target organ toxicity - repeated exposure

Document history
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