Date of issue: 14/11/2018 Date of revision: 27/11/2019 Version no.: 2

Complying with 1907/2006/EEC Regulation of 18 December 2006 ("REACH Regulation")

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

1.1 Product identifier
Product name: Meron 50 EC

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

1.3 Details of the supplier of the safety data sheet
CTS Ltd. - AGRICA
4 Haharash Street,
Hod Hasharon 45240, Israel
P.O. Box 10 Tel-Aviv, Israel
Phone: +972-9-7626257
Fax: +972-9-7626327

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

1.4 Emergency telephone number
Emergency telephone number (with hours of operation): +972-9-7626333

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance to Regulation (EC) No. 1272/2008 (CLP):
Flam. Liq. 3 H226
Asp. Tox. 1 H304
Skin Irrit. 2 H315
Skin Sens. 1 H317
Eye Dam. 1 H318
STOT SE 3 H336
Aquatic Acute 1 H400
Aquatic Chronic 1 H410

See section 16 for the full text of the H-statements declared above.

2.2 Label elements
Labelling in accordance with Regulation 1272/2008 (CLP)
Hazard pictogram(s):

Signal word: Danger

Hazard statement(s):
H226: Flammable liquid and vapour.
H304: May be fatal if swallowed and enters airways.
H317: May cause an allergic skin reaction.
H315: Causes skin irritation.

H318: Causes serious eye damage.
H336: May cause drowsiness or dizziness.
H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statement(s):
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331: Do NOT induce vomiting.

2.3 Other hazard
Not available

SECTION 3: Composition/information on ingredients

3.2 Mixtures:

Substance name	Identifiers	%	CLP Classification
N-[2,5-dichloro-4-(1,1,2,3,3,3-hexafluoropropoxy)-phenyl-aminocarbonyl]-2,6-difluorobenzamide (Lufenuron)	CAS number: 103055-07-8 EC number: 410-690-9	5-10	Skin Sens. 1 H317 Aquatic Acute 1 H400 Aquatic Chronic 1 H410
Cyclohexanone	CAS number: 108-94-1 EC number: 203-631-1	20-30	Flam. Liq. 3 H226 Acute Tox. 4 H302, H312, H332 Skin Irrit. 2 H315 Eye Dam. 1 H318
Solvent naphtha (petroleum), heavy aromatic	CAS number: 64742-94-5 EC number: 265-198-5	60-80	Asp. Tox. 1 H304 STOT SE 3 H336 Aquatic Chronic 2 H411

See section 16 for the full text of the H-statements declared above.

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 with eyes, rinse immediately with plenty of water for at least 15 minutes. Get medical attention.

Skin contact: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Get medical attention.

Inhalation: Remove the victim from site of exposure to fresh air. If breathing is difficult, give oxygen. If not breathing give artificial respiration. Get medical attention.

Ingestion: **Do not induce vomiting.** If victim is conscious, wash mouth thoroughly with plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.

4.2 Most important symptoms and effects, both acute and delayed
See section 2.2 (Label elements) and/or section 11 (Toxicological information) for the most important known symptoms and effects.

4.3 Indication of any immediate medical attention and special treatment needed
Not available

SECTION 5: Fire-fighting measures

5.1 Extinguishing media
Suitable: Foam, carbon dioxide, dry powder or water fog.
Not suitable: Straight streams of water.

5.2 Special hazards arising from the substance or mixture
Flammable. Under fire conditions may emit toxic and irritating fumes.

5.3 Advice for firefighters
Special protective equipment for fire fighters: Fire fighters should wear full protective clothing and self-contained breathing apparatus in positive pressure mode.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Ventilate area of spill. Keep away from sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.2 Environmental precautions
Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations.

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapors, mist or gas. Wash thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also section 8 for additional information measures.

7.2 Conditions for safe storage, including any incompatibilities
Storage: Keep container tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame. Keep away from strong oxidizing agents, strong acids and cyanides. Keep in properly labeled containers.

7.3 Specific end use(s): N/A

SECTION 8: Exposure control/personal protection

8.1 Control parameters

Substance name	Occupational exposure limits
Cyclohexanone	ACGIH-TLV 20 ppm (TWA), 50 ppm (STEL) (skin)

8.2 Exposure controls

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

Person Protective measures
Respiratory protection: Suitable respirator. Be sure to use an approved/certified equipment or equivalent equipment. Wear appropriate respirator when ventilation is inadequate.
Hand protection: Wear protective gloves to prevent skin exposure.
Eye protection: Wear protective safety glasses.
Skin protection: Wear appropriate long-sleeved clothing to minimize skin contact.

Environmental exposure controls: Not available

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: Clear yellow liquid
Odour: N/A
Odour threshold: N/A
pH: 3.0-7.0
Melting point/Freezing point: N/A
Initial boiling point/boiling range: N/A
Flash point: 44°C (Cyclohexanone)
Evaporation rate: N/A
Flammability: N/A
Upper/lower flammability or explosive limits: N/A
Vapor pressure: N/A
Vapor density: N/A
Relative density: N/A
Solubility(ies): N/A
Partition coefficient Octanol/Water: N/A
Auto-ignition temperature: N/A
Decomposition temperature: N/A
Viscosity: N/A
Explosive properties: N/A
Oxidizing properties: N/A

9.2 Other information

Density: 920-950 gr/L

SECTION 10: Stability and reactivity

10.1 Reactivity

Not available

10.2 Chemical stability

The product is stable under normal handling and storage conditions described in Section 7.

10.3 Possibility of hazardous reactions
Hazardous reactions are not expected, under normal conditions of storage and use.

10.4 Conditions to avoid
Heat, sparks, open flame, other ignition source.

10.5 Incompatible materials
Strong oxidizing agents, strong acids, cyanides.

10.6 Hazardous decomposition products
Other decomposition products: not available
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

Product/substance name	Test	Species	Dose
N-[2,5-dichloro-4-(1,1,2,3,3,3-hexafluoropropoxy)-phenyl-aminocarbonyl]-2,6-difluorobenzamide (Lufenuron)	LD50, Oral LD50, Administration onto the skin LC50, Inhalation	Rat Rat Rat	>3160 mg/kg >5000 mg/kg >5.3 mg/l/4H
Cyclohexanone	LD50, Oral LD50, Administration onto the skin LC50, Inhalation	Rat Rabbit Rat	1535 mg/kg (24h) 948 mg/kg 8000 mg/l/4H
Solvent naphtha (petroleum), heavy aromatic	LD50, Oral LC50, Inhalation LD50, Administration onto the skin	Rat (male) Rat (male) Rabbit (male)	>6000 mg/kg >4000 mg/m^3/4H >2000 mg/kg

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/irritation: Causes serious eye damage.

Respiratory or skin sensitization: May cause an allergic skin reaction.

Germ cell mutagenicity: Not available

Carcinogenicity: Not available

Reproductive toxicity: Not available

Specific target organ toxicity (single exposure): May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure): Not available

Aspiration hazard: May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Toxicity to algae	Toxicity to fish	Toxicity to crustaceans
N-[2,5-dichloro-4-(1,1,2,3,3,3-hexafluoropropoxy)-phenyl-aminocarbonyl]-2,6-difluorobenzamide (Lufenuron)	EC50/72h (Selenastrum capricornutum) ≥ 30 mg/l	LC50/96h (Lepomis macrochirus) >29 mg/L LC50/96h (Rainbow trout) >73 mg/L LC50/96h (Carp) >63 mg/L	EC50/48h (Daphnia magna) 0.0072 mg/L
Solvent naphtha (petroleum), heavy aromatic	ErL50/72h (Pseudokirchneriella subcapitata) 1-3 mg/l NOELR/72h (Pseudokirchneriella subcapitata) 1 mg/l	LL50/96h (Oncorhynchus mykiss) 2-5 mg/l NOELR/28d 0.441 mg/l	EL50/48h (Daphnia magna) 3-10 mg/l NOELR/21d 0.771 mg/l
Cyclohexanone	-	LC50/96h (Pimephales promelas) 8.9 mg/l EC50/96h (Pimephales promelas (fathead minnow)) 527 mg/l	-

12.2 Persistence and Degradability
Not available

12.3 Bioaccumulative potential
Not available

12.4 Mobility in soil
Not available

12.5 Results of PBT and vPvB assessment
Not 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

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Packing

Empty containers should be taken for local recycling, recovery or waste disposal.

SECTION 14: Transport information

14.1 Un number
ADR/RID: 1224 IMDG: 1224 IATA: 1224

14.2 Proper shipping name
ADR/RID: KETONES, LIQUID, N.O.S. (Cyclohexanone)

IMDG: KETONES, LIQUID, N.O.S. (Cyclohexanone)

IATA: Ketones, liquid, n.o.s. (Cyclohexanone)

14.3 Transport hazard class(es)
ADR/RID: 3 IMDG: 3 IATA: 3

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

14.5 Environmental hazard
Marine Pollutant: yes

14.6 Special precautions for user
Not available

14.7 Transport to bulk according to Annex II of MARPOL 79/78 and the IBC Code
Not available

SECTION 15: Regulatory information

This SDS complies with the following requirements of:
EU Regulation (EC) No.1907/2006 (REACH) including amendments
Regulation (EC) No.1272/2008 (CLP)

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Not available

15.2 Chemical safety assessment
Not available

SECTION 16: Other information

Full text of Hazards Statements referred to in sections 2 and 3:
Flam. Liq.- Flammable liquid
Eye Dam. - Serious eye damage
Skin Irrit. - Skin irritation
Asp. Tox. - Aspiration hazard
Skin Sens. - Skin sensitization
Acute Tox. - Acute toxicity
STOT SE - Specific target organ toxicity — single exposure
Aquatic Acute - Hazardous to the aquatic environment
Aquatic Chronic - Hazardous to the aquatic environment
H226: Flammable liquid and vapour.
H304: May be fatal if swallowed and enters airways.
H317: May cause an allergic skin reaction.
H302: Harmful if swallowed.
H312: Harmful in contact with skin.
H332: Harmful if inhaled.
H315: Causes skin irritation.
H318: Causes serious eye damage.
H336: May cause drowsiness or dizziness.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.
H411: Toxic to aquatic life with long lasting effects.

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

Key Legend Information:
CAS - Chemical Abstract Service
ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
NTP - National Toxicology program
IARC - International Agency for Research on Cancer
N/A - Not available
H - statements- Hazard statements
TLV - Threshold Limit Value
TWA - Time-weighted average
STEL - Short-Term Exposure Limit
CSA - Chemical safety assessment

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