SUMITOMO CHEMICAL (U.K.) PLC

SAFETY DATA SHEET
Gokilaht 10 MC

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

1.1. Product identifier

Product name Gokilaht 10 MC

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

Identified uses Insecticide Concentrate

1.3. Details of the supplier of the safety data sheet

Supplier

Sumitomo Chemical (UK) Plc
Hythe House
200 Shepherds Bush Road
Hammersmith
London
W6 7NL
regulatory@scuk.sumitomo-chem.co.uk
+44 (0) 203 538 3099

1.4. Emergency telephone number

Emergency telephone +44 (0)20 8762 8322 (UK)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

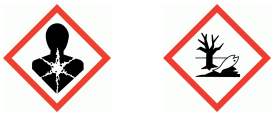
Physical hazards Not Classified

Health hazards Resp. Sens. 1 - H334 Skin Sens. 1 - H317

Environmental hazards Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

2.2. Label elements

Pictogram



Signal word Danger

Hazard statements H317 May cause an allergic skin reaction.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H410 Very toxic to aquatic life with long lasting effects.

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Precautionary statements

P261 Avoid breathing vapour/ spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P284 [In case of inadequate ventilation] wear respiratory protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P321 Specific treatment (see medical advice on this label).
P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.
P362+P364 Take off contaminated clothing and wash it before reuse.
P391 Collect spillage.
P501 Dispose of contents/ container in accordance with national regulations.

Contains

(1-phenylethyl)xylene, Gum Arabic, Aromatic Polyisocyanate, 1,2-BENZISOTHIAZOL-3(2H)-ONE

2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

GOKILAHT® TG (Cyphenothrin) **10-15%**

CAS number: 39515-40-7 EC number: 254-484-5

M factor (Acute) = 1000 M factor (Chronic) = 1000

Classification
Acute Tox. 4 - H302
Aquatic Acute 1 - H400
Aquatic Chronic 1 - H410

(1-phenylethyl)xylene **5-10%**

CAS number: 40766-31-2 EC number: 255-068-6

M factor (Acute) = 1 M factor (Chronic) = 1

Classification
Acute Tox. 4 - H302
Acute Tox. 4 - H312
Acute Tox. 4 - H332
Skin Irrit. 2 - H315
Skin Sens. 1 - H317
STOT SE 2 - H371
STOT RE 2 - H373
Aquatic Acute 1 - H400
Aquatic Chronic 1 - H410

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Gum Arabic **1-5%**

CAS number: 9000-01-5 EC number: 232-519-5

Classification
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319
Resp. Sens. 1 - H334
Skin Sens. 1 - H317
STOT SE 3 - H335

Aromatic Polyisocyanate **<0.5%**

CAS number: 53317-61-6

Classification
Eye Irrit. 2 - H319
Skin Sens. 1 - H317

ETHYL ACETATE **<0.5%**

CAS number: 141-78-6 EC number: 205-500-4

Classification
Flam. Liq. 2 - H225
Eye Irrit. 2 - H319
STOT SE 3 - H336

1,2-BENZISOTHIAZOL-3(2H)-ONE **<0.05%**

CAS number: 2634-33-5 EC number: 220-120-9

M factor (Acute) = 1

Classification
Acute Tox. 4 - H302
Skin Irrit. 2 - H315
Eye Dam. 1 - H318
Skin Sens. 1 - H317
Aquatic Acute 1 - H400

TOLUENE-DIISOCYANATE **<0.005%**

CAS number: 26471-62-5 EC number: 247-722-4

Classification
Acute Tox. 2 - H330
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319
Resp. Sens. 1 - H334
Skin Sens. 1 - H317
Carc. 2 - H351
STOT SE 3 - H335
Aquatic Chronic 3 - H412

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The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Composition comments Cifenotrin 10% Contiene 1,2-bencilisotiazolona

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Move affected person to fresh air at once. Get medical attention if any discomfort continues.

Ingestion Consult a physician for specific advice. Rinse mouth thoroughly with water. Do not induce vomiting.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water.

Eye contact Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing. Show this Safety Data Sheet to the medical personnel.

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

Skin contact May cause skin irritation/eczema.

Eye contact May cause temporary eye irritation.

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

Notes for the doctor No specific recommendations. If in doubt, get medical attention promptly.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Small fires: Extinguish with carbon dioxide or dry powder.

5.2. Special hazards arising from the substance or mixture

Specific hazards No unusual fire or explosion hazards noted.

Hazardous combustion products Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon. Oxides of nitrogen.

5.3. Advice for firefighters

Protective actions during firefighting No specific firefighting precautions known.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions Avoid the spillage or runoff entering drains, sewers or watercourses.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Absorb spillage with sand or other inert absorbent. Avoid the spillage or runoff entering drains, sewers or watercourses.

6.4. Reference to other sections

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Read and follow manufacturer's recommendations. Good personal hygiene procedures should be implemented.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in a cool and well-ventilated place.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

ETHYL ACETATE

Long-term exposure limit (8-hour TWA): WEL 200 ppm
Short-term exposure limit (15-minute): WEL 400 ppm

TOLUENE-DIISOCYANATE

Long-term exposure limit (8-hour TWA): WEL 0.02 mg/m3(Sen)
Short-term exposure limit (15-minute): WEL 0.07 mg/m3(Sen)
WEL = Workplace Exposure Limit

Ingredient comments WEL = Workplace Exposure Limits

8.2. Exposure controls

Protective equipment

Appropriate engineering controls Provide adequate ventilation.

Eye/face protection The following protection should be worn: Chemical splash goggles.

Hand protection It is recommended that gloves are made of the following material: Rubber (natural, latex).

Other skin and body protection Wear apron or protective clothing in case of contact.

Hygiene measures No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products.

Respiratory protection No specific recommendations.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance Liquid.

Colour White/off-white.

Odour Characteristic.

pH pH (concentrated solution): 5 - 8

Melting point Not applicable.

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Initial boiling point and range	154°C @
Relative density	1.02 @ °C
Partition coefficient	log Pow: 6.29
Viscosity	2000±1000 cP @ °C

9.2. Other information

Other information	No information required.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Not applicable. Will not polymerise.

10.4. Conditions to avoid

Conditions to avoid	Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid	Alkalis - inorganic. Alkalis - organic.

10.6. Hazardous decomposition products

Hazardous decomposition products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon. Oxides of nitrogen.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	5,000.0
Notes (oral LD_{50})	Based on available data the classification criteria are not met.

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	2,000.0
Notes (dermal LD_{50})	Based on available data the classification criteria are not met.

Ingestion	High systemic doses may cause tremor, hyperexcitability and uncoordinated movements.

GOKILAHT® TG (Cyphenothrin)

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	318.0

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Species	Rat
ATE oral (mg/kg)	318.0
Acute toxicity - dermal	
Notes (dermal LD_{50})	LD_{50} > 2000 mg/kg, Dermal, Rat Based on available data the classification criteria are not met.
Acute toxicity - inhalation	
Notes (inhalation LC_{50})	LD_{50} >1.85 mg/l, Inhalation, Rat Based on available data the classification criteria are not met.
Skin corrosion/irritation	
Animal data	Not irritating.
Serious eye damage/irritation	
Serious eye damage/irritation	Not irritating.
Skin sensitisation	
Skin sensitisation	Not sensitising.
Germ cell mutagenicity	
Genotoxicity - in vivo	This substance has no evidence of mutagenic properties.
Carcinogenicity	
Carcinogenicity	There is no evidence that the product can cause cancer.
Reproductive toxicity	
Reproductive toxicity - fertility	This substance has no evidence of toxicity to reproduction.

SECTION 12: Ecological Information

12.1. Toxicity

Toxicity	Very toxic to aquatic organisms.
Acute toxicity - fish	LC50, 96 hours: 0.00043 mg/l, Onchorhynchus mykiss (Rainbow trout)

GOKILAHT® TG (Cyphenothrin)

Acute aquatic toxicity	
LE(C)$_{50}$	0.0001 < L(E)C50 ≤ 0.001
M factor (Acute)	1000
Acute toxicity - fish	LC_{50}, 96 hours: 0.34 x 10-3 mg/l, Algae
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 0.43 x 10-3 mg/l, Daphnia magna
Acute toxicity - aquatic plants	IC_{50}, 72 hours: >0.014 mg/l, Fish
Chronic aquatic toxicity	
M factor (Chronic)	1000

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12.2. Persistence and degradability

Persistence and degradability The degradability of the product is not known.

GOKILAHT® TG (Cyphenothrin)

Persistence and degradability The product is not readily biodegradable.

12.3. Bioaccumulative potential

Partition coefficient log Pow: 6.29

GOKILAHT® TG (Cyphenothrin)

Bioaccumulative potential The product is not bioaccumulating.

Partition coefficient : 5.79 - 6.09

12.4. Mobility in soil

Adsorption/desorption coefficient Not known.

GOKILAHT® TG (Cyphenothrin)

Mobility Readily absorbed into the soil.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

GOKILAHT® TG (Cyphenothrin)

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects Not applicable.

GOKILAHT® TG (Cyphenothrin)

Other adverse effects Not applicable.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 3082

UN No. (IMDG) 3082

UN No. (ICAO) 3082

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14.2. UN proper shipping name

Proper shipping name (ADR/RID)	Environmentally Hazardous Substance N.O.S (Cyphenothrin)
Proper shipping name (IMDG)	Environmentally Hazardous Substance N.O.S (Cyphenothrin)
Proper shipping name (ICAO)	Environmentally Hazardous Substance N.O.S (Cyphenothrin)
Proper shipping name (ADN)	Environmentally Hazardous Substance N.O.S (Cyphenothrin)

14.3. Transport hazard class(es)

ADR/RID class 9

Transport labels

14.4. Packing group

ADR/RID packing group III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

14.6. Special precautions for user

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

SECTION 15: Regulatory information

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

EU legislation	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision date	07/02/2017
Revision	4
Supersedes date	23/01/2017
SDS number	10131

Gokilaht 10 MC

Hazard statements in full

H225 Highly flammable liquid and vapour.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H330 Fatal if inhaled.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.
H371 May cause damage to organs (Kidneys).
H373 May cause damage to organs (Blood, Kidneys) through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.