

RESIGEN
Version 4 / MAL
Revision Date: 13.03.2023

102000003299 Revision Date: 13.03.2023

SECTION 1: IDENTIFICATION OF THE HAZARDOUS CHEMICAL AND OF THE SUPPLIER

1.1 Product identifier

Trade name RESIGEN
Product code (UVP) 05947987

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

Use Insecticide

1.3 Details of the supplier of the safety data sheet

Supplier Bayer AG Local distributor

Kaiser-Wilhelm-Allee 1 Bayer Co. (Malaysia) Sdn Bhd 51373 Leverkusen 25-03 & 25-04, Level 25, IMAZIUM Germany No.8, Jalan SS21/37, Damansara

Uptown

47400 Petaling Jaya, Selangor,

Malaysia

Telephone 03 7801 3088 (office hours)

Telefax 03 7733 9272

1.4 Emergency telephone no.

In case of POISONING, please contact

Malaysian Emergency Response Services (999)



Global Incident Response Hotline (24h)

+1 (760) 476-3964 (Company 3E for Bayer AG, Crop Science Division)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to the Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013

Flammable liquids: Category 3

H226 Flammable liquid and vapour.

Aspiration hazard: Category 1

H304 May be fatal if swallowed and enters airways.



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Serious eye damage: Category 1

H318 Causes serious eye damage.

Acute toxicity: Category 4

H332 Harmful if inhaled.

Acute aquatic toxicity: Category 1
H400 Very toxic to aquatic life.

Chronic aquatic toxicity: Category 1

H410 Very toxic to aquatic life with long lasting effects.

Skin irritation: Category 2

H315 Causes skin irritation.

2.2 Label elements

Labelling according to the Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013

Hazard label for supply/use required.

Hazardous components which must be listed on the label:

- S-Bioallethrin
- Permethrin
- Piperonyl butoxide
- Distillates (petroleum), hydrotreated light
- 2-Methylpropan-1-ol
- · Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt











Signal word: Danger Hazard statements

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H332 Harmful if inhaled. H315 Causes skin irritation.

H318 Causes serious eye damage.

H410 Very toxic to aquatic life with long lasting effects.

Labelling according to the Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013

Hazard label for supply/use required.

Hazardous components which must be listed on the label:

- S-Bioallethrin
- Permethrin
- Piperonyl butoxide
- Distillates (petroleum), hydro- treated light; Kerosine unspecified



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Signal word: Danger Hazard statements

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage.

H332 Harmful if inhaled.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P280 Wear protective gloves/ protective clothing/ eye protection.

P305 + P351 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

+ P338 present and easy to do. Continue rinsing.

P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor/ physician.

P331 Do NOT induce vomiting.

P391 Collect spillage.

P501 Dispose of contents/container in accordance with local regulation.

P240 Ground/bond container and receiving equipment.

P280 Wear protective gloves/ protective clothing/ eye protection.

P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor/ physician. P501 Dispose of contents/container in accordance with local regulation.

2.3 Other hazards

Cutaneous sensations may occur, such as burning or stinging on the face and mucosae. However, these sensations cause no lesions and are of a transitory nature (max. 24 hours).

S-bioallethrin: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB). Permethrin: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB). Piperonyl butoxide: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).

SECTION 3: COMPOSITION AND INFORMATION OF THE INGREDIENTS OF THE HAZARDOUS CHEMICAL

3.2 Mixtures

Chemical nature

Emulsifiable concentrate (EC)

S-Bioallethrin 7,2 g/l; Permethrin 173,1 g/l; Piperonyl butoxide 155,9 g/l

Hazardous components

Name	CAS-No.	Conc. [%]
S-Bioallethrin	28434-00-6	0.80



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Permethrin	52645-53-1	18.60
Piperonyl butoxide	51-03-6	16.80
Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt		> 5.00 - < 10.00
2-Methylpropan-1-ol	78-83-1	> 1.00 - < 5.00
3-Phenoxybenzylic alcohol	13826-35-2	> 0.1 – < 1
Distillates (petroleum), hydrotreated light	64742-47-8	> 10.00

Further information

S-Bioallethrin	28434-00-6	M-Factor: 10 (acute)

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice Move out of dangerous area. Place and transport victim in stable

position (lying sideways). Remove contaminated clothing immediately

and dispose of safely.

Inhalation Move to fresh air. Keep patient warm and at rest. Call a physician or

poison control center immediately.

Skin contact Wash off thoroughly with plenty of soap and water, if available with

polyethyleneglycol 400, subsequently rinse with water. Warm water may increase the subjective severity of the irritation/paresthesia. This is not a sign of systemic poisoning. In case of skin irritation, application of oils or lotions containing vitamin E may be considered. Call a

of oils of folions containing vitamin E may be conside

physician or poison control center immediately.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at

least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Warm water may increase the subjective severity of the irritation/paresthesia. This is not a sign of systemic poisoning. Apply soothing eye drops, if needed anaesthetic eye drops. Call a physician or poison control center immediately.

Ingestion Rinse mouth. Do NOT induce vomiting. Do not leave victim

unattended. Risk of product entering the lungs on vomiting after ingestion. Call a physician or poison control center immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms Local:, Skin and eye paraesthesia which may be severe, Usually

transient with resolution within 24 hours, Skin, eye and mucous

membrane irritation, Cough, sneezing

Systemic:, discomfort in the chest, tachycardia, hypotension, Nausea, Abdominal pain, Diarrhoea, Vomiting, Blurred vision, Headache, Anorexia, Somnolence, Coma, Convulsions, Tremors, Prostration, Airway hyperreaction, Pulmonary oedema, Palpitation, Muscular

fasciculation, Apathy, Dizziness

Aspiration may cause pulmonary oedema and pneumonitis.

4.3 Indication of any immediate medical attention and special treatment needed



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Risks This product contains a pyrethroid. Pyrethroid poisoning should not be

confused with carbamate or organophosphate poisoning.

Contains hydrocarbon solvents. May pose an aspiration pneumonia

hazard.

Treatment Systemic treatment: Initial treatment: symptomatic. Monitor: respiratory

and cardiac functions. In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable. Keep respiratory tract clear. Oxygen or

artificial respiration if needed. In case of convulsions, a

benzodiazepine (e.g. diazepam) should be given according to standard

regimens. If not effective, phenobarbital may be used.

Contraindication: atropine. Contraindication: derivatives of adrenaline. There is no specific antidote. Recovery is spontaneous and without sequelae. In case of aspiration intubation and bronchial lavage should

be considered. Monitor: kidney, liver and pancreas function.

In case of skin irritation, application of oils or lotions containing vitamin

E may be considered.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable Use water spray, alcohol-resistant foam, dry chemical or carbon

dioxide.

5.2 Special hazards arising

from the substance or

mixture

5.3 Advice for firefighters

Special protective

equipment for firefighters

In the event of fire and/or explosion do not breathe fumes. In the event

of fire, wear self-contained breathing apparatus.

Dangerous gases are evolved in the event of a fire.

Further information Contain the spread of the fire-fighting media. Do not allow run-off from

fire fighting to enter drains or water courses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Precautions Remove all sources of ignition. Ensure adequate ventilation. Avoid

contact with spilled product or contaminated surfaces.

6.2 Environmental

precautions

Do not allow to get into surface water, drains and ground water.



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6.3 Methods and materials for containment and cleaning up

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid

binder, universal binder, sawdust). Keep in suitable, closed containers

for disposal. Clean floors and contaminated objects with plenty of

water.

6.4 Reference to other

sections

Information regarding safe handling, see section 7.

Information regarding personal protective equipment, see section 8.

Information regarding waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling Remove all sources of ignition. Ensure adequate ventilation.

Advice on protection against fire and explosion

Keep away from heat and sources of ignition. Vapours may form explosive mixture with air. Take measures to prevent the build up of

electrostatic charge. Use only explosion-proof equipment.

Hygiene measures Avoid contact with skin, eyes and clothing. Keep working clothes

separately. Wash hands before breaks and immediately after handling the product. Shower or bathe at the end of working. Remove soiled clothing immediately and clean thoroughly before using again.

Garments that cannot be cleaned must be destroyed (burnt).

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage

areas and containers

Keep away from heat and sources of ignition. Store in a place accessible by authorized persons only. Store in original container. Keep

containers tightly closed in a dry, cool and well-ventilated place. Keep

away from direct sunlight. Protect from frost.

Advice on common storage K

Keep away from food, drink and animal feedingstuffs.

Suitable materials

Coex EVOH (1000L IBC)

7.3 Specific end use(s)

Refer to the label and/or leaflet.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components	CAS-No.	Control parameters	Update	Basis
S-Bioallethrin	28434-00-6	0.75 mg/m3 (SK-SEN)		OES BCS*
Permethrin	52645-53-1	5 mg/m3 (TWA)	03 2000	MY OEL
Permethrin	52645-53-1	10 mg/m3 (SK-SEN)		OES BCS*
Piperonyl butoxide	51-03-6	50 ppm (TWA)		OES BCS*
2-Methylpropan-1-ol	78-83-1	152 mg/m3/50 ppm (TWA)	03 2000	MY OEL



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3-Phenoxybenzylic alcohol	13826-35-2	0.1 mg/m3/5 ppm	OES BCS*
		(TWA)	

*OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"

8.2 Exposure controls

Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Respiratory protection Wear respirator with an organic vapours and gas filter mask

(protection factor 10) conforming to EN140 type A or equivalent. Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's

instructions regarding wearing and maintenance.

Hand protection Please observe the instructions regarding permeability and

breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the

contact time.

Wash gloves when contaminated. Dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and always before eating,

drinking, smoking or using the toilet.

Material Nitrile rubber
Break through time > 480 min
Glove thickness > 0.4 mm
Protective index Class 6

Directive Protective gloves complying with EN

374.

Eye protection Wear goggles (conforming to EN166, Field of Use = 5 or equivalent).

Skin and body protection Wear standard coveralls and Category 3 Type 4 suit.

Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and

should be professionally laundered frequently.

If chemical protection suit is splashed, sprayed or significantly contaminated, decontaminate as far as possible, then carefully

remove and dispose of as advised by manufacturer.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Form Liquid, clear

Colour beige to brown

Odour characteristic

Odour Threshold No data available

pH No data available



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Melting point/rangeNo data availableBoiling PointNo data available

Flash point 48 °C

Flammability No data available

Auto-ignition temperature 230 °C

The data refer to the solvent.

Thermal decomposition No data available

Minimum ignition energy No data available
Self-accelarating No data available

decomposition temperature

(SADT)

Upper explosion limitNo data availableLower explosion limitNo data availableVapour pressureNo data available

Evaporation rate No data available

Relative vapour density 4.5

The data refer to the solvent.

Relative density No data available

Density ca. 0.93 g/cm³ (20 °C)

Water solubility miscible

Partition coefficient: n-

octanol/water

Permethrin: log Pow: 5.95

Piperonyl butoxide: log Pow: 4.75

Viscosity, dynamic No data available

Viscosity, kinematic 4.3 mm²/s (40 °C)

Surface tension 25.9 mN/m (40 °C)

Oxidizing properties No data available

Explosivity No data available

9.2 Other information Further safety related physical-chemical data are not known.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity Stable under normal conditions.

10.2 Chemical stability Stable under recommended storage conditions.



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10.3 Possibility of hazardous reactions

No hazardous reactions when stored and handled according to

prescribed instructions.

10.4 Conditions to avoid

Extremes of temperature and direct sunlight.

10.5 Incompatible materials

Store only in the original container.

10.6 Hazardous

decomposition products

No decomposition products expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity LD50 (Rat) > 2,000 mg/kg

Acute inhalation toxicity ATE (Mix) 2.67 mg/l

Calculation method

Acute dermal toxicity LD50 (Rat) > 9,300 mg/kg

Skin corrosion/irritation Irritating to skin.

The information is derived from the properties of the individual

components.

Serious eye damage/eye

irritation

Risk of serious damage to eyes.

The information is derived from the properties of the individual

components.

Respiratory or skin

sensitisation

Skin: Non-sensitizing. (Mouse)

OECD Test Guideline 429, local lymph node assay (LLNA)

Assessment STOT Specific target organ toxicity – single exposure

S-bioallethrin: Based on available data, the classification criteria are not met. Permethrin: Based on available data, the classification criteria are not met. Piperonyl butoxide: Based on available data, the classification criteria are not met.

Assessment STOT Specific target organ toxicity - repeated exposure

S-bioallethrin did not cause specific target organ toxicity in experimental animal studies. Permethrin did not cause specific target organ toxicity in experimental animal studies. Piperonyl butoxide did not cause specific target organ toxicity in experimental animal studies.

Assessment mutagenicity

S-bioallethrin was not mutagenic or genotoxic in a battery of in vitro and in vivo tests. Permethrin was not mutagenic or genotoxic in a battery of in vitro and in vivo tests. Piperonyl butoxide was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

Assessment carcinogenicity

S-bioallethrin was not carcinogenic in lifetime feeding studies in rats and mice.

Permethrin caused at high dose levels an increased incidence of tumours in mice in the following organ(s): Liver, Lungs. The mechanism that triggers tumours in rodents is not relevant for the low exposures encountered under normal use conditions.

Piperonyl butoxide was not carcinogenic in lifetime feeding studies in rats and mice.



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Assessment toxicity to reproduction

S-bioallethrin did not cause reproductive toxicity in a two-generation study in rats. Permethrin did not cause reproductive toxicity in a two-generation study in rats. Piperonyl butoxide did not cause reproductive toxicity in a two-generation study in rats.

Assessment developmental toxicity

S-bioallethrin did not cause developmental toxicity in rats and rabbits. Permethrin did not cause developmental toxicity in rats and rabbits. Piperonyl butoxide did not cause developmental toxicity in rats and rabbits.

Aspiration hazard

May be fatal if swallowed and enters airways.

Further information

Cutaneous sensations may occur, such as burning or stinging on the face and mucosae. However, these sensations cause no lesions and are of a transitory nature (max. 24 hours).

11.2 Information on other hazards

Endocrine disrupting properties

Assessment

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)) 0.0105 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient S-bioallethrin.

LC50 (Poecilia reticulata (guppy)) 0.0076 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient permethrin. LC50 (Cyprinodon variegatus (sheepshead minnow)) 3.94 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient piperonyl butoxide.

Toxicity to aquatic invertebrates

EC50 (Daphnia (water flea)) 0.016 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient S-bioallethrin.

EC50 (Daphnia magna (Water flea)) 0.00017 mg/l

Exposure time: 48 h

The value mentioned relates to the active ingredient permethrin.

EC50 (Daphnia magna (Water flea)) 0.51 mg/l



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Exposure time: 48 h

The value mentioned relates to the active ingredient piperonyl butoxide

Toxicity to aquatic plants EC50 (Raphidocelis subcapitata (freshwater green alga)) 3.9 mg/l

Exposure time: 72 h

The value mentioned relates to the active ingredient S-bioallethrin. EC50 (Raphidocelis subcapitata (freshwater green alga)) 0.497 mg/l

Exposure time: 72 h

The value mentioned relates to the active ingredient permethrin.

EC50 (algae) > 9.1 mg/l Exposure time: 72 h

The value mentioned relates to the active ingredient piperonyl butoxide.

12.2 Persistence and degradability

Biodegradability S-bioallethrin:

Not rapidly biodegradable

Permethrin:

Not rapidly biodegradable

Piperonyl butoxide:

Not rapidly biodegradable

S-bioallethrin: Koc: 9500 Permethrin: Koc: 100000

Piperonyl butoxide: Koc: 399 - 830

12.3 Bioaccumulative potential

Bioaccumulation S-bioallethrin: Bioconcentration factor (BCF) 260

Does not bioaccumulate.

Permethrin: Bioconcentration factor (BCF) 300

Does not bioaccumulate.
Piperonyl butoxide:
Potential bioaccumulation

12.4 Mobility in soil

Koc

Mobility in soil S-bioallethrin: Slightly mobile in soils

Permethrin: Immobile in soil

Piperonyl butoxide: Moderately mobile in soils

12.5 Results of PBT and vPvB assessment

PBT and vPvB assessment S-bioallethrin: This substance is not considered to be persistent,

bioaccumulative and toxic (PBT). This substance is not considered to be

very persistent and very bioaccumulative (vPvB).

Permethrin: This substance is not considered to be persistent,

bioaccumulative and toxic (PBT). This substance is not considered to be

very persistent and very bioaccumulative (vPvB).

Piperonyl butoxide: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be

very persistent and very bioaccumulative (vPvB).

12.6 Endocrine disrupting properties

Assessment The substance/mixture does not contain components considered to have

endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission



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Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Additional ecological

information

No other effects to be mentioned.

SECTION 13: DISPOSAL INFORMATION

13.1 Waste treatment methods

Product In accordance with current regulations and, if necessary, after

consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or incineration plant.

Contaminated packaging Not completely emptied packagings should be disposed of as

hazardous waste.

SECTION 14: TRANSPORT INFORMATION

ADR/RID/ADN

14.1 UN number 1993

14.2 Proper shipping name FLAMMABLE LIQUID, N.O.S.

(PERMETHRIN, KEROSINE SOLUTION)

14.3 Transport hazard class(es)

14.4 Packaging Group

14.5 Environm. Hazardous Mark

YES

Hazard no. 30
Tunnel Code D/E

This classification is in principle not valid for carriage by tank vessel on inland waterways. Please refer to the manufacturer for further information.

IMDG

14.1 UN number 1993

14.2 Proper shipping name FLAMMABLE LIQUID, N.O.S.

(PERMETHRIN, KEROSINE SOLUTION)

14.3 Transport hazard class(es) 3
14.4 Packaging Group III
14.5 Marine pollutant YES

IATA

14.1 UN number 1993

14.2 Proper shipping name FLAMMABLE LIQUID, N.O.S.

(PERMETHRIN, KEROSINE SOLUTION)

14.3 Transport hazard class(es)14.4 Packaging Group14.5 Environm. Hazardous MarkNO

14.6 Special precautions for user

See sections 6 to 8 of this Safety Data Sheet.



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14.7 Transport in bulk according to IMO instruments

No transport in bulk according to the IBC Code.

SECTION 15: REGULATORY INFORMATION

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

Further information

zestricted to

WHO-classification: III (Slightly hazardous)

SECTION 16: OTHER INFORMATION

The information contained within this Safety Data Sheet is in accordance to The Industry Code of Practice on Chemical Classification and Hazard Communication 2013 (ICOP) which is promulgated under Section 37 of Occupational Safety and Health Act 1994 (OSHA 1994) and serves as a guidance to chemical suppliers to comply with the provisions of Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013 [P.U. (A) 310/2013] which have been gazetted on 11 October 2013, hereinafter is referred to as "the Regulations". This data sheet complements the user's instructions, but does not replace them. The information contained therein is based on the knowledge available about the product concerned at the time it was compiled. Users are further reminded of the possible risks of using a product for purposes other than those for which it was intended. The required information complies with the current Malaysia legislation, including the Pesticides Act 1974. Addressees are requested to observe any additional national requirements.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.