



SUMITOMO CHEMICAL (U.K.) PLC

SAFETY DATA SHEET PESGUARD GEL

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

1.1. Product identifier

Product name PESGUARD GEL
UFI UFI: G690-10HC-H00S-64C4

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

Identified uses Biocide.
Uses advised against Use only for intended applications.

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
+44 (0) 203 538 3099
regulatory@scuk.sumitomo-chem.co.uk

Authorisation holder LKC Switzerland Ltd.
Hauptstrasse 10
CH-4414 Füllinsdorf
Switzerland
Tel: +41 (61) 906 8500

1.4. Emergency telephone number

Emergency telephone +44 1235 239670 (EU)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified
Health hazards Skin Sens. 1 - H317
Environmental hazards Aquatic Chronic 1 - H410

2.2. Label elements

Hazard pictograms



Signal word Warning

Hazard statements H317 May cause an allergic skin reaction.
H410 Very toxic to aquatic life with long lasting effects.

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Precautionary statements	<p>P273 Avoid release to the environment.</p> <p>P280 Wear protective gloves.</p> <p>P302 + P352 IF ON SKIN: Wash with plenty of soap and water.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</p> <p>P308+P311 IF exposed or concerned: Call a POISON CENTER or doctor.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
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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

Sumilarv® TG (Pyriproxyfen)	<1%
CAS number: 95737-68-1	EC number: 429-800-1
M factor (Acute) = 1	M factor (Chronic) = 1000
Classification Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	
CLOTHIANIDIN TG	<1%
CAS number: 210880-92-5	
M factor (Acute) = 10	M factor (Chronic) = 100
Classification Acute Tox. 4 - H302 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	
cis-1-[3-chloroallyl]-3,5,7-triaza-1-azoniaadamantane chloride	<0.5%
CAS number: 51229-78-8	EC number: 426-020-3
Classification Flam. Sol. 2 - H228 Acute Tox. 4 - H302 Acute Tox. 3 - H311 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Repr. 2 - H361 Aquatic Chronic 2 - H411	

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Reaction mass of 5-chloro-2-methyl-2h-isothiazol-3-one and 2-methyl-2h-isothiazol-3-one (3:1)	<0.1%
CAS number: 55965-84-9	EC number: 611-341-5
M factor (Acute) = 10	M factor (Chronic) = 10
Classification	
Acute Tox. 3 - H301	
Acute Tox. 3 - H311	
Acute Tox. 3 - H331	
Skin Corr. 1B - H314	
Skin Sens. 1A - H317	
Aquatic Acute 1 - H400	
Aquatic Chronic 1 - H410	

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move affected person to fresh air at once. Get medical attention.
Ingestion	Rinse mouth thoroughly with water.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing.
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 any discomfort continues.
Protection of first aiders	No specific requirements are anticipated under normal conditions of use.

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

General information	The product contains a sensitising substance.
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.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Carbon dioxide or dry powder. Larger fires: Alcohol-resistant foam.
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5.2. Special hazards arising from the substance or mixture

Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours. Oxides of carbon. Oxides of nitrogen.
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5.3. Advice for firefighters

Protective actions during firefighting	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Contain and collect extinguishing water.
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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.
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6.2. Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Absorb spillage with non-combustible, absorbent material.

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Provide adequate ventilation. Wear appropriate clothing to prevent any possibility of skin contact.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions No special storage precautions required.

Storage class Unspecified storage.

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

Ingredient comments No exposure limits known for ingredient(s).

8.2. Exposure controls

Protective equipment



Eye/face protection Not relevant.

Hand protection Wear protective gloves.

Other skin and body protection Wear appropriate clothing to prevent any possibility of skin contact.

Respiratory protection Not relevant.

Environmental exposure controls Keep container tightly sealed when not in use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Solid

Colour Brownish.

Odour Characteristic.

pH pH (diluted solution): 4.9 (5%)

Relative density 1.062 @ 16.5°C

Solubility(ies) Soluble in water.

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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.

10.4. Conditions to avoid

Conditions to avoid There are no known conditions that are likely to result in a hazardous situation.

10.5. Incompatible materials

Materials to avoid No specific material or group of materials is likely to react with the product to produce a hazardous situation.

10.6. Hazardous decomposition products

Hazardous decomposition products Not known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ >5000 mg/kg, Oral, Rat Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ >2000 mg/kg, Dermal, Rat Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Technically not feasible.

Skin corrosion/irritation

Animal data Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation Not irritating.

Skin sensitisation

Skin sensitisation Buehler test - Guinea pig: Sensitising.

Skin contact May cause sensitisation by skin contact.

Toxicological information on ingredients.

Sumilarv® TG (Pyriproxyfen)

Acute toxicity - oral

Notes (oral LD₅₀) Based on available data the classification criteria are not met. LD₅₀ >5000 mg/kg, Oral, Rat

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Acute toxicity - dermal

Notes (dermal LD₅₀) Based on available data the classification criteria are not met. LD₅₀ >2000 mg/kg, Dermal, Rat

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Based on available data the classification criteria are not met. > 1.3 mg/l, Inhalation, Rat

Skin corrosion/irritation

Animal data Not irritating. Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation Not irritating. Based on available data the classification criteria are not met.

Respiratory sensitisation

Respiratory sensitisation There is no evidence that the product can cause respiratory hypersensitivity.

Skin sensitisation

Skin sensitisation Not sensitising. Based on available data the classification criteria are not met.

Germ cell mutagenicity

Summary This substance has no evidence of mutagenic properties.

Carcinogenicity

Carcinogenicity There is no evidence that the product can cause cancer.

Reproductive toxicity

Summary This substance has no evidence of toxicity to reproduction.

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

Ingestion May cause discomfort if swallowed.

Skin contact No specific health hazards known.

Eye contact May cause temporary eye irritation.

CLOTHIANIDIN TG

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 532.0

Species Rat

Acute toxicity - dermal

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Notes (dermal LD₅₀)	LD ₅₀ >2000 mg/kg, Dermal, Rat Based on available data the classification criteria are not met.
<u>Acute toxicity - inhalation</u>	
Acute toxicity inhalation (LC₅₀ dust/mist mg/l)	6.14
Species	Rat
Notes (inhalation LC₅₀)	Based on available data the classification criteria are not met.
<u>Skin corrosion/irritation</u>	
Animal data	Not irritating.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Not irritating.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vivo	This substance has no evidence of mutagenic properties.
<u>Carcinogenicity</u>	
Carcinogenicity	There is no evidence that the product can cause cancer.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	This substance has no evidence of toxicity to reproduction.
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Inhalation	Dust in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing.
Ingestion	May cause discomfort if swallowed.
Skin contact	Not a skin sensitiser. Prolonged and frequent contact may cause redness and irritation.
Eye contact	No specific health hazards known.
Acute and chronic health hazards	
Medical symptoms	May cause discomfort if swallowed. Nausea, vomiting.

SECTION 12: Ecological information

Ecotoxicity The product contains substances which are toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

Ecological information on ingredients.

Sumilarv® TG (Pyriproxyfen)

Ecotoxicity Very toxic to aquatic life with long lasting effects.

12.1. Toxicity

Ecological information on ingredients.

Sumilarv® TG (Pyriproxyfen)

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Acute aquatic toxicity

LE(C) ₅₀	0.1 < L(E)C ₅₀ ≤ 1
M factor (Acute)	1
Acute toxicity - fish	LC ₅₀ , 96 hours: > 0.27 mg/l, Fish, <i>Lepomis macrochirus</i> (Bluegill)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 0.4 mg/l, <i>Daphnia magna</i>
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: 0.15 mg/l, Algae, <i>Selenastrum capricornutum</i>

Chronic aquatic toxicity

NOEC	0.00001 < NOEC ≤ 0.0001
Degradability	Non-rapidly degradable
M factor (Chronic)	1000

CLOTHIANIDIN TG

Acute aquatic toxicity

LE(C) ₅₀	0.01 < L(E)C ₅₀ ≤ 0.1
M factor (Acute)	10
Acute toxicity - fish	LC ₅₀ , 96 hours: >100 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC ₅₀ , : 0.029 mg/l, Freshwater invertebrates <i>Chironomus riparius</i> EC ₅₀ , 48 hours: 26 mg/l, <i>Daphnia magna</i>
Acute toxicity - aquatic plants	IC ₅₀ , 72 hours: 56 (96 hr) mg/l, Algae

Chronic aquatic toxicity

NOEC	0.0001 < NOEC ≤ 0.001
Degradability	Non-rapidly degradable
M factor (Chronic)	100

12.2. Persistence and degradability

Persistence and degradability There are no data on the degradability of this product.

Ecological information on ingredients.

Sumilarv® TG (Pyriproxyfen)

Persistence and degradability	The product is not biodegradable.
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CLOTHIANIDIN TG

Persistence and degradability	The product is not readily biodegradable.
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12.3. Bioaccumulative potential

Ecological information on ingredients.

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Sumilarv® TG (Pyriproxyfen)

Bioaccumulative potential The product is not bioaccumulating.

Partition coefficient log Pow: 4.86 @ pH7

CLOTHIANIDIN TG

Bioaccumulative potential The product is not bioaccumulating.

Partition coefficient : 0.7 @ 25°C

12.4. Mobility in soil

Ecological information on ingredients.

Sumilarv® TG (Pyriproxyfen)

Mobility Not known.

CLOTHIANIDIN TG

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.

Ecological information on ingredients.

Sumilarv® TG (Pyriproxyfen)

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

CLOTHIANIDIN TG

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 None known.

Ecological information on ingredients.

Sumilarv® TG (Pyriproxyfen)

Other adverse effects Not applicable.

CLOTHIANIDIN TG

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. When handling waste, the safety precautions applying to handling of the product should be considered.

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Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Environmental Manager must be informed of all major spillages. Avoid the spillage or runoff entering drains, sewers or watercourses.

SECTION 14: Transport information

Road transport notes Avoid releasing into the environment.

Rail transport notes Avoid releasing into the environment.

Sea transport notes Do not release into the environment.

14.1. UN number

UN No. (ADR/RID) 3077

UN No. (IMDG) 3077

UN No. (ICAO) 3077

14.2. UN proper shipping name

Proper shipping name (ADR/RID) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Clothianidin, Pyriproxyfen)

Proper shipping name (IMDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Clothianidin, Pyriproxyfen)

Proper shipping name (ICAO) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Clothianidin, Pyriproxyfen)

Proper shipping name (ADN) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Clothianidin, Pyriproxyfen)

14.3. Transport hazard class(es)

ADR/RID class 9

IMDG class 9

ICAO class/division 9

14.4. Packing group

IMDG packing group III

ICAO packing group III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

EmS F-A,S-F

Emergency Action Code 90

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 No information required.

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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

Abbreviations and acronyms used in the safety data sheet

ATE: Acute Toxicity Estimate.
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
CAS: Chemical Abstracts Service.
DNEL: Derived No Effect Level.
GHS: Globally Harmonized System.
IATA: International Air Transport Association.
ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.
IMDG: International Maritime Dangerous Goods.
Kow: Octanol-water partition coefficient.
LC₅₀: Lethal Concentration to 50 % of a test population.
LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).
PBT: Persistent, Bioaccumulative and Toxic substance.
PNEC: Predicted No Effect Concentration.
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.
RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
SVHC: Substances of Very High Concern.
vPvB: Very Persistent and Very Bioaccumulative.
MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.
EC₅₀: 50% of maximal Effective Concentration.
LOAEC: Lowest Observed Adverse Effect Concentration.
LOAEL: Lowest Observed Adverse Effect Level.
NOAEC: No Observed Adverse Effect Concentration.
NOAEL: No Observed Adverse Effect Level.
NOEC: No Observed Effect Concentration.
LOEC: Lowest Observed Effect Concentration.
UN: United Nations.

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Classification abbreviations and acronyms

Acute Tox. = Acute toxicity
 Aquatic Acute = Hazardous to the aquatic environment (acute)
 Aquatic Chronic = Hazardous to the aquatic environment (chronic)
 Asp. Tox. = Aspiration hazard
 Carc. = Carcinogenicity
 Eye Dam. = Serious eye damage
 Eye Irrit. = Eye irritation
 Flam. Liq. = Flammable liquid
 Press. Gas (Comp.) = Gas under pressure: Compressed gas
 Repr. = Reproductive toxicity
 Resp. Sens. = Respiratory sensitisation
 Skin Corr. = Skin corrosion
 Skin Irrit. = Skin irritation
 Skin Sens. = Skin sensitisation
 STOT RE = Specific target organ toxicity-repeated exposure
 STOT SE = Specific target organ toxicity-single exposure
 Flam. Gas = Flammable gas

Revision comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date

19/01/2021

Revision

14

Supersedes date

12/04/2019

SDS number

20468

SDS status

Approved.

Hazard statements in full

H228 Flammable solid.
 H301 Toxic if swallowed.
 H302 Harmful if swallowed.
 H311 Toxic in contact with skin.
 H314 Causes severe skin burns and eye damage.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H331 Toxic if inhaled.
 H361 Suspected of damaging fertility or the unborn child.
 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.