

Safety Data Sheet according to HPR, Schedule 1

Printing date 05/13/2021

Reviewed on 04/12/2021

1 Identification

- **Product identifier:** RG-100-5G
- **Trade name:** **Roof Guardian RG 100**
- **Item number(s):** RG-100-5G
- **SDS Number:** 155
- **Application of the substance / the mixture** ROOF COATING
- **Manufacturer/Supplier:**
 USA ADDRESS:
 KEMPER SYSTEM AMERICA, INC.
 1200 NORTH AMERICA DR,
 WEST SENECA, NY 14224
 PH (716) 558-2971

 CANADIAN ADDRESS:
 ASTARAS CANADA, INC.
 4-7075 EDWARDS BLVD
 MISSISSAUGA, ONTARIO, L5S 1Z2
 PH (905) 624-5463
- **Information department:**
 Tel: (716) 712-9931
 www.kempersystem.net
- **Emergency telephone number:**
 ChemTrec (800) 424-9300 / 1-(703)-741-5970
 Canada only: CANUTEC (Call collect) (613) 996-6666

2 Hazard identification

· **Classification of the substance or mixture:**



GHS02 Flame

Flammable Liquids - Category 2

H225 Highly flammable liquid and vapour.



GHS08 Health hazard

Carcinogenicity - Category 1A

H350 May cause cancer.

Specific Target Organ Toxicity - Repeated Exposure - Category 2
 H373 May cause damage to organs through prolonged or repeated exposure.

Aspiration Hazard - Category 1

H304 May be fatal if swallowed and enters airways.



GHS07

Skin Irritation - Category 2

H315 Causes skin irritation.

Eye Irritation - Category 2A

H319 Causes serious eye irritation.

· **Label elements**

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

(Contd. on page 2)

Safety Data Sheet

according to HPR, Schedule 1

Printing date 05/13/2021

Reviewed on 04/12/2021

Trade name: Roof Guardian RG 100

(Contd. of page 1)

- **Signal word:** Danger
- **Hazard-determining components of labeling:**
Solvent naphtha (petroleum), light aliph.
Quartz (SiO₂)
benzene
- **Hazard statements:**
H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H350 May cause cancer.
H373 May cause damage to organs through prolonged or repeated exposure.
H304 May be fatal if swallowed and enters airways.
- **Precautionary statements:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof [electrical/ventilating/lighting] equipment.
P243 Take actions to prevent static discharges.
P260 Do not breathe mist/vapors/spray.
P264 Wash thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 If swallowed: Immediately call a doctor.
P331 Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P314 Get medical advice/attention if you feel unwell.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P337+P313 If eye irritation persists: Get medical advice/attention.
P370+P378 In case of fire: Use for extinction: CO₂, sand, extinguishing powder.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Information pertaining to particular dangers for man and environment:**
- **NFPA ratings (scale 0 - 4):**



Health = 2
Fire = 3
Reactivity = 0

3 Composition/Information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

(Contd. on page 3)

CA

Safety Data Sheet

according to HPR, Schedule 1

Printing date 05/13/2021

Reviewed on 04/12/2021

Trade name: Roof Guardian RG 100

(Contd. of page 2)

· **Dangerous components:**

64742-89-8	Solvent naphtha (petroleum), light aliph.	10-30% w/w *
14808-60-7	Quartz (SiO ₂)	0.1-1% w/w *

* Actual concentration ranges are withheld as a trade secret.

4 First-aid measures

· **After inhalation:**

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.

· **After skin contact:**

Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.

· **After eye contact:**

Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If eye irritation persists get medical advice/attention.

· **After swallowing:** Do not induce vomiting, Immediately call a poison center/ doctor.

· **Most important symptoms and effects, both acute and delayed:**

No further relevant information available.

· **Indication of any immediate medical attention and special treatment needed:**

No further relevant information available.

5 Fire-fighting measures

· **Suitable extinguishing agents:** CO₂, sand, extinguishing powder. Do not use water.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **Special hazards arising from the substance or mixture:** No further relevant information available.

· **Protective equipment:** No special measures required.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures:**

Wear protective equipment. Keep unprotected persons away.

· **Environmental precautions:**

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

· **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

· **Reference to other sections:**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

CA

(Contd. on page 4)

Safety Data Sheet

according to HPR, Schedule 1

Printing date 05/13/2021

Reviewed on 04/12/2021

Trade name: Roof Guardian RG 100

(Contd. of page 3)

7 Handling and storage

- **Handling**
- **Precautions for safe handling:**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available.
- **Storage**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s):** No further relevant information available.

8 Exposure controls/ Personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

- **Components with limit values that require monitoring at the workplace:**

14808-60-7 Quartz (SiO₂)

EL (Canada)	TWA: 0.025 mg/m ³ ACGIH A2; IARC 1
EV (Canada)	TWA: 0.10* mg/m ³ *respirable fraction
PEL (USA)	TWA: 0.05* mg/m ³ *resp. dust; 30mg/m ³ /%SiO ₂ +2
REL (USA)	TWA: 0.05* mg/m ³ *respirable dust; See Pocket Guide App. A
TLV (USA)	TWA: 0.025* mg/m ³ *as respirable fraction

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
- **Breathing equipment:** Use suitable respiratory protective device in case of insufficient ventilation.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

(Contd. on page 5)

Safety Data Sheet

according to HPR, Schedule 1

Printing date 05/13/2021

Reviewed on 04/12/2021

Trade name: Roof Guardian RG 100

(Contd. of page 4)

· Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

· Form:	Liquid
· Color:	Red
· Odor:	Mild petroleum odor
· Odor threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	115 °C
· Flash point:	10 °C
· Flammability (solid, gaseous):	Not applicable.
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits	
Lower:	0.9 Vol %
Upper:	10.6 Vol %
· Vapor pressure at 20 °C:	0.2 hPa
· Density at 20 °C:	1.3 g/cm ³
· Relative density:	Not determined.
· Vapor density at 20 °C:	3.66 AIR=1
· Evaporation rate at 20 °C:	1.5 BA=1
· Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic at 20 °C:	300 mPas
Kinematic:	Not determined.
· Solvent content:	
VOC content:	16.00 % 208.0 g/l / 1.74 lb/gal
· Other information	No further relevant information available.

CA

(Contd. on page 6)

Safety Data Sheet

according to HPR, Schedule 1

Printing date 05/13/2021

Reviewed on 04/12/2021

Trade name: Roof Guardian RG 100

(Contd. of page 5)

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects:**
- **Acute toxicity**
- **Specific symptoms in biological assay:** No further relevant information available.
- **Primary irritant effect**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Carcinogenic.
The product can cause inheritable damage.

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

1309-37-1	diiron trioxide	3
14808-60-7	Quartz (SiO ₂)	1
1333-86-4	Carbon Black	2B
71-43-2	benzene	1

- **NTP (National Toxicology Program)**

14808-60-7	Quartz (SiO ₂)	K
71-43-2	benzene	K

12 Ecological information

- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability:** No further relevant information available.
- **Behavior in environmental systems**
- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.
- **Additional ecological information**
- **General notes:**
Water hazard class 2 (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
- **Other adverse effects:** No further relevant information available.

CA

(Contd. on page 7)

Safety Data Sheet

according to HPR, Schedule 1

Printing date 05/13/2021

Reviewed on 04/12/2021



Trade name: Roof Guardian RG 100

(Contd. of page 6)

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings**
- **Recommendation:**
Place in a sealed container and label as waste. Place in a safe area, and comply with all federal, state, provincial and local regulations for disposal.

14 Transport information

- | | |
|---|----------------------------|
| UN-Number | UN1263 |
| DOT/TDG, ADR, IMDG, IATA | UN1263 |
| UN proper shipping name | Paint |
| DOT/TDG | 1263 PAINT |
| ADR | PAINT |
| IMDG, IATA | PAINT |
| Transport hazard class(es) | |
| DOT/TDG (Transport dangerous goods): | |
|  | |
| Class | 3 Flammable liquids |
| Label | 3 |
| ADR, IMDG, IATA | |
|  | |
| Class | 3 Flammable liquids |
| Label | 3 |
| Packing group | II |
| DOT/TDG, ADR, IMDG, IATA | II |
| Environmental hazards: | Not applicable. |
| Special precautions for user: | Warning: Flammable liquids |
| Hazard identification number (Kemler code): | - |
| EMS Number: | F-E,S-E |
| Stowage Category | A |
| Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: | Not applicable. |

(Contd. on page 8)

CA

Safety Data Sheet

according to HPR, Schedule 1

Printing date 05/13/2021

Reviewed on 04/12/2021

Trade name: Roof Guardian RG 100

(Contd. of page 7)

· **Transport/Additional information:**

· **DOT/TDG**

· **Quantity limitations**

On passenger aircraft/rail: 5 L

On cargo aircraft only: 60 L

· **ADR**

· **Excepted quantities (EQ)**

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

· **IMDG**

· **Limited quantities (LQ)**

5L

· **Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

· **UN "Model Regulation":**

UN 1263 PAINT, 3, II

15 Regulatory information

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

· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

71-43-2 benzene

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed or exempted

· **Proposition 65**

· **Chemicals known to cause cancer:**

14808-60-7 Quartz (SiO₂)

1333-86-4 Carbon Black

71-43-2 benzene

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

71-43-2 benzene

· **Chemicals known to cause developmental toxicity:**

71-43-2 benzene

· **Canadian substance listings**

· **Canadian Domestic Substances List (DSL/NDL):**

All ingredients are listed.

· **Canadian Ingredient Disclosure list (limit 0.1%):**

None of the ingredients is listed.

· **Canadian Ingredient Disclosure list (limit 1%):**

1309-37-1 diiron trioxide

(Contd. on page 9)

CA

Safety Data Sheet

according to HPR, Schedule 1

Printing date 05/13/2021

Reviewed on 04/12/2021

Trade name: Roof Guardian RG 100

(Contd. of page 8)

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS02 GHS07 GHS08

- **Signal word** Danger

- **Hazard-determining components of labeling:**

Solvent naphtha (petroleum), light aliph.
Quartz (SiO₂)
benzene

- **Hazard statements**

H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H350 May cause cancer.
H373 May cause damage to organs through prolonged or repeated exposure.
H304 May be fatal if swallowed and enters airways.

- **National regulations:**

- **Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

16 Other information

This SDS format meets ANSI Z400.1-2010, OSHA 1910.1200 and WHMIS requirements. Kemper System America, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Product use and conditions of use are beyond the control of Kemper System America, Inc. Warranty of materials is limited to test results of product performance as detailed in certificates of compliance. Interpretation of test results is the responsibility of end-user. No other warranties, expressed or implied, are made. Kemper System America, Inc is an ISO 9001:2015 and ISO 14001:2015 registered company.

- **Department issuing SDS:** Product safety department

- **Contact:**

- **Date of the latest revision of the safety data sheet** 05/13/2021 / -

- **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
VOC: Volatile Organic Compounds (USA, EU)