

Date of issue: 2002-07-18

Product/Formulation: ANTI-RAIN

1. Material/formulation and company designation

1.1 Product information:

Trade name : ANTI-RAIN

1.2 Information on manufacturer/supplier:

Manufacturer/supplier:	Parasol Inc.
Street/P.O. box	252A Broadway Ave
Nationality designation/postal code/city	Toronto, On M4P 1V9
Telephone	(416) 486-4947
Fax	(416) 486-3552

2. Composition / information on components

2.1 Chemical characterization: silicone

Isopropan-2-ol CAS No. 67-63-0
Elbesol 1007 (Formulation on the basis of
Polyoxyethylenepolyoxypropylenepolydimethyl
siloxanes)

3. Possible hazards

3.1 Particular notice of hazards to human beings and environment:

R11 Highly flammable

4. First-aid measures

4.1 General notices: Remove contaminated, soaked clothing immediately

4.2 After inhalation: Provide fresh air, call physician

4.3 After contact with skin: Wash off thoroughly with soap and water; call physician if skin irritation persists

4.4 After contact with eyes: Rinse thoroughly for several minutes under running water with lids held open; consult physician

4.5 After swallowing: Rinse mouth out, give generous amounts of water, do not induce vomiting, get physician's help immediately.

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5. Firefighting measures

5.0 General:

5.1 Suitable extinguishing agents: CO₂, powdered extinguishing agents, water spray

5.2 Unsuitable extinguishing agents (for safety reasons):
Solid stream of water

5.3 Special hazard due to the substance or formulation itself, its combustion products or gases produced:
May produce explosive gas-air mixtures; combustion can cause release of carbon monoxide

5.4 Special protective gear:
Wear respiratory protection independent of surrounding air. Wear fully protective outfit.

5.5 Further information:
Cool endangered container with water spray
Combustion Class:
B (combustible liquid substances)

6. Measures to be taken upon unintentional release

6.0 General: Keep away from sewerage system, bodies of water and soil

6.1 Personal precautionary measures:
Wear protective gear, provide adequate ventilation
Keep away from combustion sources, avoid contact with eyes and skin.

6.2 Environmental protection measures:
Do not allow product to enter sewerage system or bodies of water;
follow local official regulations

6.3 Cleaning procedure / mopping:
Mop up with absorbent material (sand, siliceous earth, acid binder, universal binder)
Dispose of contaminated material as waste in accordance with item 13.

7. Handling and storage

7.0 General:

7.1 Handling:

Notice for safe handling:

Keep container closed tightly, provide for good ventilation in the workplace

Notice for fire and explosion protection:

Use explosion-proof equipment and valves and spark-free Tools.

7.2 Storage:

Requirement for storage rooms and containers:

Store in a cool place; provide good ventilation.

Precautionary notice for storage together with other substances:

Do not store with combustible substances.

Further information regarding storage conditions:

8. Limitation of exposure and personal protective gear

8.1 Additional notices for the layout of technical systems

8.2 Assigned substances with workplace-relevant exposure limits that must be monitored:

67-63-0 2-isopropanol

MAK: 500 mg/m³, 200 ml/m³

TRGS 900: 980 mg/m³, 400 ml/m³

Bat-Value (parameter: Acetone): 50 mg/l (U, B / b)

8.3 Personal protective gear: Protective clothing

General protective and hygiene measures:

Respiratory protection: Respiratory protection under conditions of inadequate ventilation

Hand protection: Gloves/solvent-proof

Eye protection: Protective goggles

9. Physical and chemical properties

- 9.1 Manifestation:
State: liquid
Color: cloudy, colorless
Odor:
- 9.2 Relevant safety data:
Change in condition:
Boiling point/boiling range: < 62 ° - C
Flash point: about 20 ° - C
Ignition temperature: < 400° - C
Self-ignitability:
Steam pressure: about 24 mbar
Density: about 0,800 g/cm³
Viscosity: about 1.93 mPas
Explosion hazard: The product itself is not an explosion hazard;
however, the production of a potentially explosive steam/air mix is possible.
- 9.3 Further data:
Thermal decomposition:
No decomposition when used according to regulations

10. Stability and reactivity

- 10.0 General
- 10.1 Conditions to be avoided:
- 10.2 Substances to be avoided: Strong acids and oxidizing agents
- 10.3 Hazardous products resulting from decomposition: No hazardous decomposition substances known.

11. Toxicological data

- 11.0 General: Acutely toxic
Category relevant LD/LC50 – values:
- | Components | Type | Value | Species |
|---------------|------------|-------------|---------|
| 2-isopropanol | oral | 4570 mg/kg | rat |
| | dermal | 13400 mg/kg | rab |
| | inhalative | 30 mg/kg | rat |
- Skin: Irritation possible
Eyes: Irritation possible
Ingestion: Damage to health possible
- 11.1 Acute toxicity:
Primary effect of irritation:
Exposure: Repeated exposure may cause allergic contact dermatitis
Skin: Mild irritant
Eye: Mild irritant

12. Ecological data

- 12.1 Water hazard: WGK (water hazard class) 1 – mildly hazardous to water
- 12.2 Behavior in environmental media: Dissolves in water
- 12.3 Ecological effect:
Easily biodegradable
- 12.4 Further ecological notices:
With proper handling and under observance of regulations in force, current experience gives no cause to expect negative effects on the environment.

13. Notices for disposal

- 13.1 Local official regulations are to be observed.
May not be disposed of together with household rubbish. Keep away from sewerage system
- 13.2 Soiled packaging: Empty container completely
- 13.3 Recommended cleaner: Water, if warranted with the addition of detergents.

14. Transportation regulations

14.1 Land transport ADR./RID and GGVS/GGVE:

GGVS / GGVE: UN 1219 Class 3
 ADR / RID: Classification Code F1
 Shipping symbols: Packaging Group II
 Express: allowable
 Mail Germany: allowable

14.2 Inland waterway craft transport ADN/ADNR:

Comments

14.3 Seagoing vessel transport IMDG / GGV Sea:

IMDG/GGV Sea class: 3.2
 Ems No.: 3-06
 MFAG: 305
 Marine pollutant: no
 Proper technical name: isopropanol
 Technical name: isopropanol
 Proper shipping name:
 Shipping symbols:

14.4 Air transport ICAO-TI and IATA-DGR

ICAO/IATA Class: 3

Proper technical name: isopropanol
 Technical name: isopropanol
 Proper shipping name:
 Shipping symbols:
 Packing regulations:

PAC:
 CAO: Max. net:

Air mail:

14.5 Transport / further data:

15. Regulations

15.1 Labeling in accordance with EEC guidelines:

EG/R: 11 highly flammable
 EG/S: 7 Keep container closed tightly
 16 Keep away from combustion sources; do not smoke

15.2 National regulations:

Classification in accordance with VbF: B
 Water hazard class: WGK 1
 CAS No.: Substance: Water hazard class: 1

16. Other data

These data describe exclusively the safety requirements of the product / products and are based on current state of our acquired knowledge. They do not provide protection from properties of the described product/products in the sense of legal warranty regulations. This safety data sheet is not intended for the end consumer.