

**Safety Data Sheet****RILSAN® CLEAR G**

Publication : 2019-03-12

Document type	Name	Last data update	Version	Page
Safety data sheets	RILSAN® CLEAR G	2019-03-11	4.0	<u>3</u>
Inventories	<u>Inventory</u>	2019-03-11	2.0	<u>11</u>



**Product:****RILSAN® CLEAR G**

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SDS No.: 003848-001 (Version 4.0)

Date 11.03.2019 (Cancel and replace : 19.04.2017)

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

Generic Safety Data Sheet

**1.1. Identification of the product****Identification of the mixture:** RILSAN® CLEAR G**Grades :** 2 RILSAN® CLEAR G120 RNEW / 2 RILSAN® CLEAR G170 / 2 RILSAN® CLEAR G170 CPD / 2 RILSAN® CLEAR G350 / 2 RILSAN® CLEAR G350 L / 2 RILSAN® CLEAR G350 SC / 2 RILSAN® CLEAR G820 RNEW / 2 RILSAN® CLEAR G850 RNEW / 2 RILSAN® CLEAR G850 RNEW L / 2 RILSAN® CLEAR G850 RNEW LV / 2 RILSAN® CLEAR G850 RNEW SC /**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the Substance/Mixture :** Mouldings and Extrusion**1.3. Details of the supplier of the safety data sheet**

Supplier	ARKEMA Specialty Polyamides 420 rue d'Estienne d'Orves 92705 Colombes Cedex, FRANCE Telephone: +33 (0)1 49 00 80 80 Telefax: +33 (0)1 49 00 83 96 E-mail address: pars-drp-fds@arkema.com <a href="http://www.arkema.com">http://www.arkema.com</a>
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**1.4. Emergency telephone number****+ 33 1 49 00 77 77**  
European emergency phone number: 112**2. HAZARDS IDENTIFICATION****2.1. Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008):**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

**2.2. Label elements****Label elements (REGULATION (EC) No 1272/2008):**

Additional information: No label necessary for this product.

**2.3. Other hazards****Potential health effects:**

Acute exposure: Eyes Skin Contact with the product, when handled at high temperatures, can cause serious burns.  
Inhalation: At high temperature, products of thermal decomposition can be irritating to respiratory system Toxic effects cannot be excluded  
Dust inhalation: Risk of irritation of respiratory system  
Skin contact: At high temperature, products of thermal decomposition can be irritating to skin  
Eye contact: At high temperature, products of thermal decomposition can be irritating to eyes

**Environmental Effects:**

Inert polymer not biodegradable on the basis of its structure

**Physical and chemical hazards:**Thermal decomposition giving toxic and corrosive products.  
Decomposition products: See chapter 10

**Other:**

Results of PBT and vPvB assessment : Based on the available information, it is not possible to conclude on PBT and vPvB criteria according to REACH regulation, annex XIII.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2. Mixtures

**Chemical nature of the mixture<sup>1</sup>:**

Preparation based on : AMORPHOUS COPOLYAMIDES  
Presence of additives

<sup>1</sup>: See chapter 14 for Proper Shipping Name

<sup>2</sup>: See the text of the regulation for applicable exceptions or provisions -

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### 4. FIRST AID MEASURES

#### 4.1. Description of necessary first-aid measures:

**General advice:**

No hazards which require special first aid measures.

**Inhalation:**

Inhalation of vapours due to thermal decomposition : Move to fresh air. Oxygen or artificial respiration if needed. In case of persistent problems : Consult a physician.

**Skin contact:**

In case of skin contact Wash off immediately with soap and plenty of water.

On contact with hot product : Cool skin rapidly with cold water after contact with molten polymer. In case of adhesion, do not try to remove the product. Treat the affected areas as thermal burns. Consult a physician.

**Eye contact:**

Dusts : Wash well-open eyes immediately, abundantly and thoroughly with water. Remove particles remaining under the eyelids. If irritation persists, consult an ophthalmologist.

On contact with hot product : Cool eyes rapidly with cold water after contact with molten polymer. Consult an ophthalmologist immediately.

**Ingestion:**

In case of problems : Consult a doctor.

**Protection of first-aiders:**

In case of insufficient ventilation, wear suitable respiratory equipment.

4.2. Most important symptoms/effects, acute and delayed: No data available.

4.3. Indication of immediate medical attention and special treatment needed, if necessary: No data available.

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### 5. FIREFIGHTING MEASURES

#### 5.1. Extinguishing media

**Suitable extinguishing media:**

Water spray, Foam, Carbon dioxide (CO<sub>2</sub>)

**Unsuitable extinguishing media:**

High volume water jet

#### 5.2. Special hazards arising from the substance or mixture:

300 - 350 °C: possible formation of:

Monomer and oligomer (white fumes)

Thermal decomposition giving toxic and corrosive products :

Carbon monoxide, Ammonia, Amino derivatives

Temperature exceeding 500 °C :

Formation of toxic products through combustion:

Carbon oxides, Hydrogen cyanide (hydrocyanic acid), (traces)

#### 5.3. Advice for firefighters:

**Specific methods:**

Ensure a system for the rapid emptying of containers. In case of fire nearby, remove the bags.

**Special protective actions for fire-fighters:**

In the event of fire, wear self-contained breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures:

Avoid contact with skin and eyes and inhalation of dust. Wear a dust mask and safety glasses/goggles if necessary. In case of insufficient ventilation, wear suitable respiratory equipment.

### 6.2. Environmental precautions:

Do not release into the environment. Do not let product enter drains.

### 6.3. Methods and materials for containment and cleaning up:

#### Recovery:

Recover the product. Sweep up to prevent slipping hazard. Rinse with water. Recover waste water for processing later.

#### Elimination:

Destroy the product by incineration (in accordance with local and national regulations).

### 6.4. Reference to other sections: None.

## 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling:

#### Technical measures/Precautions:

Storage and handling precautions applicable to products: Solid (pellets).  
Ensure ventilation of work areas and extraction of dust or vapours likely to be given off during conversion operations (product handled when hot). Provide showers, eye-baths Provide water supplies near the point of use.

#### Safe handling advice:

At all stages of the operation, do not exceed the temperature at which decomposition into toxic and corrosive products will occur. Remove all sources of ignition. Avoid accumulation of static charges during transfers in metallic systems. Avoid the formation and deposition of dust. In case of dust formation, wear a dust mask. Keep well away from naked flames.

#### Hygiene measures:

Avoid contact with skin and eyes and inhalation of dust. Product handled when hot : Avoid inhalation of vapours. When using do not eat, drink or smoke.

Wash hands after handling. Remove contaminated clothing and protective equipment before entering eating areas.

### 7.2. Conditions for safe storage, including any incompatibilities:

Store away from moisture and heat to maintain the technical properties of the product. Remove all sources of ignition. Provide earthing and safe electrical equipment.

Do not store above: 60 °C

#### Incompatible products:

None known.

#### Packaging material:

**Recommended:** Triplex bags (polyethylene - aluminium - polyethylene), Triplex bags (paper, aluminium, polyethylene)

### 7.3. Specific end use(s): None.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters:

**Exposure Limit Values** Not relevant

#### Derived No Effect Level (DNEL):

This information is not required.

#### Predicted No Effect Concentration:

This information is not required.

### 8.2. Exposure controls:

#### General protective measures:

Ensure ventilation of work areas and extraction of dust or vapours likely to be given off during conversion operations (product handled when hot).

#### Personal protective equipment:

Respiratory protection:

Product handled when hot : In case of insufficient ventilation, wear suitable respiratory equipment.

In the case of hazardous fumes, wear self contained breathing apparatus.

Hand protection:

Gloves (product handled in molten state)

Eye/face protection: Safety glasses/goggles (product handled in molten state) - Wear face-shield and protective clothing in case of problems during processing  
Skin and body protection: Boots (product handled in molten state)

Environmental exposure controls: See chapter 6

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

**Appearance:**

**Physical state (20°C):** solid  
**Form:** granules  
**Colour:** colourless  
**Odour:** none  
**Olfactory threshold:** Not relevant  
**pH:** Not applicable  
**Softening point :** 80 - 200 °C  
**Boiling point/boiling range :** Not applicable  
**Flash point:** Not applicable  
**Evaporation rate:** Not applicable  
**Flammability (solid, gas):** No data available.  
**Vapour pressure:** Not applicable  
**Vapour density:** Not applicable  
**Relative density:** No data available.  
**Bulk density:** 600 kg/m<sup>3</sup> , at 20 °C  
**Water solubility:** insoluble at 20 °C  
**Partition coefficient: n-octanol/water:** No data available.  
**Auto-ignition temperature:** 420 - 450 °C (Standard ASTM D 1929-77 (B))  
**Decomposition temperature:** > 350 °C  
**Viscosity, dynamic:** Not applicable  
**Explosive properties:**  
Explosivity: Not relevant (due to physical form)  
**Oxidizing properties:** Not relevant (due to its chemical structure)

### 9.2. Other data:

**Solubility in other solvents:** Soluble in: Metacresol  
phenol  
Benzyl alcohol  
Formic acid (concentrate), Sulphuric acid (concentrate)

## 10. STABILITY AND REACTIVITY

**10.1. Reactivity:** No data available.

**10.2. Chemical stability:**

The product is stable under normal handling and storage conditions.

**10.3. Possibility of hazardous reactions:**

None under normal conditions of use.

**10.4. Conditions to avoid:**

Temperatures above 60 °C  
Heat, flames and sparks. Exposure to moisture (to maintain the technical properties of the product).

**10.5. Incompatible materials to avoid:**

Strong acids and oxidizing agents

**10.6. Hazardous decomposition products:**

**Thermal decomposition:**

Decomposition temperature: > 350 °C  
300 - 350 °C: possible formation of:

Monomer and oligomer (white fumes)  
Thermal decomposition giving toxic and corrosive products :  
Carbon monoxide, Ammonia, Amino derivatives  
Temperature exceeding 500 °C :  
Formation of toxic products through combustion:  
Carbon oxides, Hydrogen cyanide (hydrocyanic acid), (traces)

## 11. TOXICOLOGICAL INFORMATION

All available data on this product and/or the components quoted in section 3 and/or the analogue substances/metabolites have been taken into account for the hazard assessment.

### 11.1. Information on toxicological effects:

#### Acute toxicity:

**Inhalation:** Inhalation of vapours due to thermal decomposition: , Risk of irritation of respiratory system, Toxic effects cannot be excluded

**Ingestion:** **Polymer: According to its composition, this product should not be harmful in normal conditions of use**

**Dermal:** **Polymer: According to its composition, this product should not be harmful in normal conditions of use**

#### Local effects ( Corrosion / Irritation / Serious eye damage ):

**Skin contact:** **Polymer: According to its composition, can be considered as : Slightly or not irritating to skin**  
Contact with the product, when handled at high temperatures, can cause serious burns.  
At high temperature, products of thermal decomposition can be irritating to skin

**Eye contact:** **Polymer: According to its composition, can be considered as : Slightly or not irritating to eyes**  
Contact with the product, when handled at high temperatures, can cause serious burns.  
At high temperature, products of thermal decomposition can be irritating to eyes

#### Respiratory or skin sensitisation:

**Inhalation:** No data available.

**Skin contact:** **According to its composition, can be considered as : Not a skin sensitizer No reported effect on man in industry**

#### CMR effects :

**Mutagenicity:** **Polymer: According to its composition, this product should not be harmful in normal conditions of use contains no ingredient considered as genotoxic**

**Carcinogenicity:** **Polymer: According to its composition, this product should not be harmful in normal conditions of use**

**Reproductive toxicity:**

**Fertility:** **Polymer: According to its composition, this product should not be harmful in normal conditions of use**

**Foetal development:** **Polymer: According to its composition, this product should not be harmful in normal conditions of use**

#### Specific target organ toxicity :

##### Single exposure :

**Inhalation:** Dust inhalation: , Risk of irritation of respiratory system

**Repeated exposure:** **Polymer: According to its composition, this product should not be harmful in normal conditions of use**

**Aspiration hazard:**

Not applicable

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**12. ECOLOGICAL INFORMATION**

Ecotoxicology Assessment: All available and relevant data on this product and/or the components quoted in section 3 and/or the analogue substances/metabolites have been taken into account for the hazard assessment.

**12.1. Acute toxicity :**

**Fish:** No data available.

**Aquatic invertebrates:** No data available.

**Aquatic plants:** No data available.

**Microorganisms:** No data available.

**12.2. Persistence and degradability :**

**Biodegradation (In water):** Inert polymer Not biodegradable on the basis of its structure

**12.3. Bioaccumulative potential :** No data available.

**12.4. Mobility in soil - Distribution among environmental compartments:**

**Vapor pressure:** Not applicable,

**12.5. Results of PBT and vPvB assessment :**

Based on the available information, it is not possible to conclude on PBT and vPvB criteria according to REACH regulation, annex XIII.

**12.6. Other adverse effects:** None known.

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**13. DISPOSAL CONSIDERATIONS**

**13.1. Waste treatment:**

**Disposal of product:** Do not dispose of waste into sewer. Recycle if possible. Destroy the product by incineration (in accordance with local and national regulations).

**Disposal of packaging:** Do not release into the environment. Recycle if possible. Destroy packaging by incineration at an approved waste disposal site (in accordance with local and national regulations).

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**14. TRANSPORT INFORMATION**

Not classified as dangerous in the meaning of transport regulations.

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**15. REGULATORY INFORMATION**

Safety data sheets: accordance with Annex II of Regulation (EC) No 1907/2006 and its amendment(s)

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

**15.2. Chemical safety assessment:**

This information is not required.

**INVENTORIES:**

For the inventory details, see Appendix.

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**16. OTHER INFORMATION**

**Update:**

Safety datasheet sections which have been updated:		Type:
1	Commercial name	Revisions
1	Grades	Deletions, Additions
2	other hazards	Additions
15	Inventories	Revisions

**Thesaurus:**

NOAEL : No Observed Adverse Effect Level (NOAEL)  
LOAEL : Lowest Observed Adverse Effect Level (LOAEL)  
bw : Body weight  
food : oral feed  
dw : Dry weight  
vPvB : very Persistent and very Bioaccumulative  
PBT : Persistent, Bioaccumulative and Toxic

This information applies to the PRODUCT AS SUCH and conforming to specifications of ARKEMA. In case of formulations or mixtures, it is necessary to ascertain that a new danger will not appear. The information contained is based on our knowledge of the product, at the date of publishing and it is given quite sincerely. Users are advised of possible additional hazards when the product is used in applications for which it was not intended. This sheet shall only be used and reproduced for prevention and security purposes. The references to legislative, regulatory and codes of practice documents cannot be considered as exhaustive. It is the responsibility of the person receiving the product to refer to the totality of the official documents concerning the use, the possession and the handling of the product. It is also the responsibility of the handlers of the product to pass on to any subsequent persons who will come into contact with the product (usage, storage, cleaning of containers, other processes) the totality of the information contained within this safety data sheet and necessary for safety at work, the protection of health and the protection of environment.

**NB: In this document the numerical separator of the thousands is the "." (point), the decimal separator is "," (comma).**



**Product:**
**RILSAN® CLEAR G**

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SDS No.: 003848-001 (Version 2.0)

 Date 11.03.2019 (*Cancel and replace* : 27.03.2017)

Name	Inventory	EINECS / REACH	TSCA	DSL / NDSL	IECSC	ENCS	ISHL	KECI	PICCS	AICS	NZIOC
2 RILSAN® CLEAR G120 RNEW		Conforms to	(K)	Does not conform to (H)	(K)	Conforms to	Conforms to	(K)	Conforms to	Conforms to	Conforms to
2 RILSAN® CLEAR G170		Conforms to	(K)	Does not conform to (H)	(K)	Conforms to	Conforms to	(K)	Conforms to	Conforms to	Conforms to
2 RILSAN® CLEAR G170 CPD		Conforms to	Does not conform to	Does not conform to (H)	(K)	Conforms to	Conforms to	(K)	Conforms to	Conforms to	Conforms to
2 RILSAN® CLEAR G350		Conforms to	(K)	Does not conform to (H)	(K)	Conforms to	Conforms to	(K)	Conforms to	Does not conform to	Conforms to
2 RILSAN® CLEAR G350 L		Conforms to	(K)	Does not conform to (H)	(K)	Conforms to	Conforms to	(K)	Conforms to	Does not conform to	Conforms to
2 RILSAN® CLEAR G350 SC		Conforms to	(K)	Does not conform to (H)	(K)	Conforms to	Conforms to	(K)	Conforms to	Does not conform to	Conforms to
2 RILSAN® CLEAR G820 RNEW		Conforms to	(K)	Does not conform to (H)	(K)	Conforms to	Conforms to	(K)	Does not conform to	Does not conform to	Conforms to

(A) The product contains ELINCS substances.	(I) This product contains at least one component covered by an exemption available only for Arkema - Please consult Arkema for more information
(B) This substance has been registered according to Regulation (EC) No. 1907/2006 (REACH).	(J) This product contains at least one component covered by a polymer exemption available only for Arkema - Please consult Arkema for more information.
(C) This substance is exempt from registration according to Regulation (EC) No. 1907/2006 (REACH).	(K) Consult ARKEMA.
(D) This product contains at least one component registered according to Regulation (EC) N° 1907/2006 (REACH)	(L) This product contains a NLP (No Longer Polymer)
(E) This product contains at least one component exempt according to Regulation (EC) N° 1907/2006 (REACH)	(M) The mixture contains a polymer. All the monomers for this polymer & other substances are listed on the inventory, Consult Arkema.
(F) All components of this product are on the Canadian DSL	(N) Consult ALTUGLAS
(G) This product contains one or several components listed in the Canadian NDSL list. All other components are on the DSL list.	(O) Based on alternate CAS number(s).
(H) This product contains one or several components that are not on the Canadian DSL nor NDSL lists.	
<i>In case of empty inventory, Consult ARKEMA.</i>	
<b>ARKEMA</b>	<b>420 rue d'Estienne d'Orves - 92700 Colombes – FRANCE</b>

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Date 11.03.2019 (Cancel and replace : 27.03.2017)

2 RILSAN® CLEAR G850 RNEW	Conforms to	(K)	Does not conform to (H)	(K)	Conforms to	Conforms to	(K)	Does not conform to	Does not conform to	Conforms to
2 RILSAN® CLEAR G850 RNEW L	Conforms to	(K)	Does not conform to (H)	(K)	Conforms to	Conforms to	(K)	Does not conform to	Does not conform to	Conforms to
2 RILSAN® CLEAR G850 RNEW LV	Conforms to	Does not conform to	Does not conform to (H)	(K)	Conforms to	Conforms to	(K)	Does not conform to	Does not conform to	Conforms to
2 RILSAN® CLEAR G850 RNEW SC	Conforms to	(K)	Does not conform to (H)	(K)	Conforms to	Conforms to	(K)	Does not conform to	Does not conform to	Conforms to

(A) The product contains ELINCS substances.	(I) This product contains at least one component covered by an exemption available only for Arkema - Please consult Arkema for more information
(B) This substance has been registered according to Regulation (EC) No. 1907/2006 (REACH).	(J) This product contains at least one component covered by a polymer exemption available only for Arkema - Please consult Arkema for more information.
(C) This substance is exempt from registration according to Regulation (EC) No. 1907/2006 (REACH).	(K) Consult ARKEMA.
(D) This product contains at least one component registered according to Regulation (EC) N° 1907/2006 (REACH)	(L) This product contains a NLP (No Longer Polymer)
(E) This product contains at least one component exempt according to Regulation (EC) N° 1907/2006 (REACH)	(M) The mixture contains a polymer. All the monomers for this polymer & other substances are listed on the inventory, Consult Arkema.
(F) All components of this product are on the Canadian DSL	(N) Consult ALTUGLAS
(G) This product contains one or several components listed in the Canadian NDSL list. All other components are on the DSL list.	(O) Based on alternate CAS number(s).
(H) This product contains one or several components that are not on the Canadian DSL nor NDSL lists.	
<i>In case of empty inventory, Consult ARKEMA.</i>	
<b>ARKEMA</b>	<b>420 rue d'Estienne d'Orves - 92700 Colombes – FRANCE</b>