

**RILSAN® HT CESV BLACK P010 TL****1. PRODUCT AND COMPANY IDENTIFICATION****Company**

Arkema Inc.  
900 First Avenue  
King of Prussia, Pennsylvania 19406

Specialty Polyamides

**Customer Service Telephone Number:** (800) 932-0420  
(Monday through Friday, 8:00 AM to 5:00 PM EST)

**Emergency Information**

**Transportation:** CHEMTREC: (800) 424-9300  
(24 hrs., 7 days a week)  
**Medical:** Rocky Mountain Poison Center: (866) 767-5089  
(24 hrs., 7 days a week)

**Product Information**

**Product name:** RILSAN® HT CESV BLACK P010 TL  
**Synonyms:** 2 RILSAN HT CESV BLACK P010 TL +  
**Molecular formula:** Mixture  
**Chemical family:** Copolyamide of high molecular weight  
**Product use:** Extrusion, Car industry

**SECTION 2: HAZARDS IDENTIFICATION****Emergency Overview**

**Color:** black  
**Physical state:** solid  
**Form:** pellets  
**Odor:** odourless

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

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)  
Not a hazardous substance or mixture.

**GHS-Labeling****Supplemental Hazard Statements:**

Processing may release vapors and/or fumes which cause eye, skin and respiratory tract irritation.

## RILSAN® HT CESV BLACK P010 TL

**Supplemental information:****Potential Health Effects:**

The product, in the form supplied, is not anticipated to produce significant adverse human health effects. Contains high molecular weight polymer(s). Effects due to processing releases: Irritating to eyes, respiratory system and skin.

Prolonged or repeated exposure may cause: headache, drowsiness, nausea, weakness, (severity of effects depends on extent of exposure).

**Other:**

Handle in accordance with good industrial hygiene and safety practice. (pellets/granules) This product may release fume and/or vapor of variable composition depending on processing time and temperature.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

| Chemical name         | CAS-No.      | Wt/Wt           | GHS Classification**                           |
|-----------------------|--------------|-----------------|------------------------------------------------|
| Proprietary copolymer | Proprietary* | >= 60 - < 100 % | Not classified                                 |
| Ethylene terpolymer   | Proprietary* | >= 10 - < 30 %  | Not classified                                 |
| Proprietary polymer   | Proprietary* | >= 1 - < 5 %    | Not classified                                 |
| Proprietary component | Proprietary* | >= 1 - < 5 %    | Not classified                                 |
| Copper iodide (CuI)   | 7681-65-4    | < 0.1 %         | H302, H315, H318, H317, H335, H372, H400, H411 |

\*The specific chemical identity is withheld because it is trade secret information of Arkema Inc.

## RILSAN® HT CESV BLACK P010 TL

\*\*For the full text of the H-Statements mentioned in this Section, see Section 16.

**SECTION 4: FIRST AID MEASURES****4.1. Description of necessary first-aid measures:****Inhalation:**

If inhaled, remove victim to fresh air.

**Skin:**

In case of contact, immediately flush skin with plenty of water. If molten polymer gets on the skin, cool rapidly with cold water. Do not peel solidified product off the skin. Obtain medical treatment for thermal burns. Remove material from clothing. Wash clothing before reuse. Thoroughly clean shoes before reuse.

**Eyes:**

Immediately flush eye(s) with plenty of water. Obtain medical treatment for thermal burns.

**Ingestion:**

If swallowed, DO NOT induce vomiting. Get medical attention. Never give anything by mouth to an unconscious person.

**4.2. Most important symptoms/effects, acute and delayed:**

For most important symptoms and effects (acute and delayed), see Section 2 (Hazard Statements and Supplemental Information if applicable) and Section 11 (Toxicology Information) of this SDS.

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

Unless otherwise noted in Notes to Physician, no specific treatment noted; treat symptomatically.

**SECTION 5: FIREFIGHTING MEASURES****Extinguishing media (suitable):**

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

**Protective equipment:**

Fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand / NIOSH approved or equivalent).

**Further firefighting advice:**

Fire fighting equipment should be thoroughly decontaminated after use.

**Fire and explosion hazards:**

When burned, the following hazardous products of combustion can occur:

Carbon oxides

Hazardous organic compounds

Hydrogen cyanide (hydrocyanic acid)  
(traces)

## RILSAN® HT CESV BLACK P010 TL

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, Emergency procedures, Methods and materials for containment/clean-up:**

Prevent further leakage or spillage if you can do so without risk. Ventilate the area. Sweep up and shovel into suitable properly labeled containers for prompt disposal. Possible fall hazard – floor may become slippery from leakage/spillage of product. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

**Protective equipment:**

Appropriate personal protective equipment is set forth in Section 8.

**SECTION 7: HANDLING AND STORAGE****Handling****General information on handling:**

Avoid breathing dust.

Avoid breathing processing fumes or vapors.

Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of material from eyes, skin, and clothing.

**Storage****General information on storage conditions:**

Keep in a dry, cool place. Store in closed containers, in a secure area to prevent container damage and subsequent spillage. Store away from moisture and heat to maintain the technical properties of the product.

**Storage stability – Remarks:**

Stable under normal conditions.

**Storage incompatibility – General:**

Strong acids

Strong oxidizing agents

**Temperature tolerance – Do not store above:**

140 °F (60 °C)

## RILSAN® HT CESV BLACK P010 TL

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****Airborne Exposure Guidelines:****Particles Not Otherwise Specified / Nuisance Dust (Proprietary)**

## US. ACGIH Threshold Limit Values

|                       |                       |
|-----------------------|-----------------------|
| Form:                 | Respirable particles. |
| Time weighted average | 3 mg/m <sup>3</sup>   |
| Form:                 | Inhalable particles.  |
| Time weighted average | 10 mg/m <sup>3</sup>  |

## US. OSHA Table Z-3 (29 CFR 1910.1000)

|                       |                                               |
|-----------------------|-----------------------------------------------|
| Form:                 | Respirable fraction.                          |
| Time weighted average | 15millions of particles per cubic foot of air |

## US. OSHA Table Z-3 (29 CFR 1910.1000)

|                       |                                               |
|-----------------------|-----------------------------------------------|
| Form:                 | Total dust                                    |
| Time weighted average | 50millions of particles per cubic foot of air |

## US. OSHA Table Z-3 (29 CFR 1910.1000)

|                       |                      |
|-----------------------|----------------------|
| Form:                 | Respirable fraction. |
| Time weighted average | 5 mg/m <sup>3</sup>  |

## US. OSHA Table Z-3 (29 CFR 1910.1000)

|                       |                      |
|-----------------------|----------------------|
| Form:                 | Total dust           |
| Time weighted average | 15 mg/m <sup>3</sup> |

Only those components with exposure limits are printed in this section. Limits with skin contact designation above have skin contact effect. Air sampling alone is insufficient to accurately quantitate exposure. Measures to prevent significant cutaneous absorption may be required. Limits with a sensitizer designation above mean that exposure to this material may cause allergic reactions.

**Engineering controls:**

Investigate engineering techniques to reduce exposures below airborne exposure limits or to otherwise reduce exposures. Provide ventilation if necessary to minimize exposures or to control exposure levels to below airborne exposure limits (if applicable see above). If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment.

## RILSAN® HT CESV BLACK P010 TL

**Respiratory protection:**

Avoid breathing dust. Avoid breathing processing fumes or vapors. Where airborne exposure is likely or airborne exposure limits are exceeded (if applicable, see above), use NIOSH approved respiratory protection equipment appropriate to the material and/or its components and substances released during processing. Consult respirator manufacturer to determine appropriate type equipment for a given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure or where exposure limit may be significantly exceeded, use an approved full face positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. Respiratory protection programs must comply with 29 CFR § 1910.134.

**Skin protection:**

Processing of this product releases vapors or fumes which may cause skin irritation. Minimize skin contamination by following good industrial hygiene practice. Wearing protective gloves is recommended. Wash hands and contaminated skin thoroughly after contact with processing fumes or vapors. Wash thoroughly after handling.

**Eye protection:**

Use good industrial practice to avoid eye contact. Processing of this product releases vapors or fumes which may cause eye irritation. Where eye contact may be likely, wear chemical goggles and have eye flushing equipment available.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

|                                             |                             |
|---------------------------------------------|-----------------------------|
| <b>Color:</b>                               | black                       |
| <b>Physical state:</b>                      | solid                       |
| <b>Form:</b>                                | pellets                     |
| <b>Odor:</b>                                | odourless                   |
| <b>Odor threshold:</b>                      | No data available           |
| <b>Flash point</b>                          | Not applicable              |
| <b>Lower flammable limit (LFL):</b>         | No data available           |
| <b>Upper flammable limit (UFL):</b>         | No data available           |
| <b>pH:</b>                                  | Not applicable              |
| <b>Density:</b>                             | 1.020 g/cm <sup>3</sup>     |
| <b>Specific Gravity (Relative density):</b> | 1.02 (68 °F( 20 °C))Water   |
| <b>Bulk density:</b>                        | 550 - 650 kg/m <sup>3</sup> |

## RILSAN® HT CESV BLACK P010 TL

|                                                                   |                                                                                                                                              |
|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Boiling point/boiling range:</b>                               | No data available                                                                                                                            |
| <b>Melting point/range:</b>                                       | 491 °F (255 °C)                                                                                                                              |
| <b>Freezing point:</b>                                            | No data available.                                                                                                                           |
| <b>Evaporation rate:</b>                                          | No data available                                                                                                                            |
| <b>Solubility in water:</b>                                       | 68 °F (20 °C) insoluble (on the basis of its structure)                                                                                      |
| <b>Solubility in other solvents: [qualitative and quantative]</b> | Soluble in:<br><br>Phenols<br><br>Metacresol<br><br>Benzyl alcohol (when hot)<br><br>Formic acid (concentrate), Sulphuric acid (concentrate) |
| <b>Viscosity, dynamic:</b>                                        | No data available                                                                                                                            |
| <b>Oil/water partition coefficient:</b>                           | No data available.                                                                                                                           |
| <b>Thermal decomposition:</b>                                     | starts at 752 °F (400 °C)                                                                                                                    |
| <b>Flammability:</b>                                              | See GHS Classification in Section 2 if applicable                                                                                            |

**SECTION 10: STABILITY AND REACTIVITY****Stability:**

The product is stable under normal handling and storage conditions.

**Hazardous reactions:**

Hazardous polymerization does not occur.

**Materials to avoid:**

Strong acids and oxidizing agents

**Conditions / hazards to avoid:**

Store protected from moisture and heat. (to maintain the technical properties of the product). See Hazardous Decomposition Products below.

**Hazardous decomposition products:**

Thermal decomposition giving toxic, flammable, and / or corrosive products:

Product code: A99176

Version 1.4

Issued on: 01/11/2024

Page: 7 / 11

## RILSAN® HT CESV BLACK P010 TL

Carbon oxides  
Ammonia  
Hydrogen cyanide (hydrocyanic acid)  
(traces)  
Hazardous organic compounds  
Amino derivatives  
Methacrylates

**SECTION 11: TOXICOLOGICAL INFORMATION**

Data on this material and/or its components are summarized below.

**Data for Ethylene terpolymer (Proprietary)****Acute toxicity****Oral:**

No deaths occurred. (rat) LD<sub>0</sub> > 2,000 mg/kg.

**Other information**

The information presented is from representative materials in this chemical class. The results may vary depending on the test substance.

Effects due to processing releases or residual monomer:

Possible cross sensitization with other acrylates and methacrylates

**Data for Proprietary polymer (Proprietary)****Acute toxicity****Oral:**

No deaths occurred (rat) LD<sub>0</sub> > 2,000 mg/kg.

**Other information**

The information presented is from representative materials with this Chemical Abstract Service (CAS) Registry number. The results vary depending on the size and composition of the test substance.

Effects due to processing releases or residual monomer:

Possible cross sensitization with other acrylates and methacrylates

**Data for Proprietary component (Proprietary)****Other information**

The information presented is from representative materials in this chemical class. The results may vary depending on the test substance.

Effects due to processing releases or residual monomer:

Possible cross sensitization with other acrylates and methacrylates

**SECTION 12: ECOLOGICAL INFORMATION****Chemical Fate and Pathway**

No data are available.



**RILSAN® HT CESV BLACK P010 TL****Ecotoxicology**

Data on this material and/or its components are summarized below.

**Data for Copper iodide (CuI) (7681-65-4)****Aquatic toxicity data:**

Very toxic. Danio rerio (zebra fish) 96 h LC50 = 0.4 mg/l

**Microorganisms:**

Respiration inhibition / Activated sludge LC50 = 7,570 mg/l

**SECTION 13: DISPOSAL CONSIDERATIONS****Waste disposal:**

Where possible recycling is preferred to disposal or incineration. If recycling is not an option, incinerate or dispose of in accordance with federal, state, and local regulations. Pigmented, filled and/or solvent laden product may require special disposal practices in accordance with federal, state and local regulations. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits. Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information incomplete, inaccurate, or otherwise inappropriate. Furthermore, state and local waste disposal requirements may be more restrictive or otherwise different from federal laws and regulations.

**SECTION 14: TRANSPORT INFORMATION**

**US Department of Transportation (DOT):** not regulated

**International Maritime Dangerous Goods Code (IMDG):** not regulated

**SECTION 15: REGULATORY INFORMATION****Chemical Inventory Status**

|                                                                   |            |                                                                                                                                                                 |
|-------------------------------------------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| US. Toxic Substances Control Act                                  | TSCA       | This product complies with TSCA Inventory requirements. The polymer component(s) is (are) eligible for the amended polymer exemption at 40 CFR Section 723.250. |
| Canadian Domestic Substances List (DSL)                           | DSL        | This product contains one or several components that are not on the Canadian DSL nor NDSL lists.                                                                |
| China. Inventory of Existing Chemical Substances in China (IECSC) | IECSC (CN) | Not all components of this product are listed or exempted                                                                                                       |
| Japan. ENCS - Existing and New Chemical Substances Inventory      | ENCS (JP)  | All components of this product are listed or exempted                                                                                                           |

## SAFETY DATA SHEET



## RILSAN® HT CESV BLACK P010 TL

|                                                                    |            |                                                           |
|--------------------------------------------------------------------|------------|-----------------------------------------------------------|
| Japan. ISHL - Inventory of Chemical Substances                     | ISHL (JP)  | All components of this product are listed or exempted     |
| Korea. Korean Existing Chemicals Inventory (KECI)                  | KECI (KR)  | Not all components of this product are listed or exempted |
| Philippines Inventory of Chemicals and Chemical Substances (PICCS) | PICCS (PH) | Not all components of this product are listed or exempted |
| Australian Inventory of Industrial Chemicals                       | AU AIICL   | Not all components of this product are listed or exempted |
| Taiwan Chemical Substance Inventory (TCSI)                         | TCSI       | Not all components of this product are listed or exempted |

**United States – Federal Regulations****SARA Title III – Section 302 Extremely Hazardous Chemicals:**

The components in this product are either not SARA Section 302 regulated or regulated but present in negligible concentrations.

**SARA Title III - Section 311/312 Hazard Categories:**

No SARA Hazards

**SARA Title III – Section 313 Toxic Chemicals:**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) - Reportable Quantity (RQ):**

The components in this product are either not CERCLA regulated, regulated but present in negligible concentrations, or regulated with no assigned reportable quantity.

**United States – State Regulations****California Prop. 65**

WARNING! This product contains a chemical known to the State of California to cause cancer.

| <u>Chemical name</u>                              | <u>CAS-No.</u> |
|---------------------------------------------------|----------------|
| Carbon black                                      | 1333-86-4      |
| 2-Propenoic acid, 2-methyl-, oxiranylmethyl ester | 106-91-2       |
| 2-Propenoic acid, methyl ester                    | 96-33-3        |

**SECTION 16: OTHER INFORMATION**

Product code: A99176

Version 1.4

Issued on: 01/11/2024

Page: 10 / 11

## RILSAN® HT CESV BLACK P010 TL

**Full text of H-Statements referred to under sections 2 and 3.**

|      |                                                                 |
|------|-----------------------------------------------------------------|
| H302 | Harmful if swallowed.                                           |
| H315 | Causes skin irritation.                                         |
| H317 | May cause an allergic skin reaction.                            |
| H318 | Causes serious eye damage.                                      |
| H335 | May cause respiratory irritation.                               |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life.                                     |
| H411 | Toxic to aquatic life with long lasting effects.                |

## Latest Revision(s):

|                   |            |
|-------------------|------------|
| Reference number: | 200006706  |
| Date of Revision: | 01/11/2024 |
| Date Printed:     | 01/12/2024 |

RILSAN® is a registered trademark of Arkema France

All information contained herein is believed to be accurate as of the date of publication, is provided "as-is" and is subject to change without notice. This is not a warranty, an agreement, or substitute for expert or professional advice. Arkema Inc. ("Company") expressly disclaims and assumes no liability for the use of the products or reliance on this information. It is the sole responsibility of the user to determine the suitability of any products for user's application(s). NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED (INCLUDING SUITABILITY FOR USE IN ANY MEDICAL DEVICE OR MEDICAL APPLICATION), IS MADE CONCERNING THE PRODUCTS OR THE INFORMATION PROVIDED HEREIN. The information provided relates only to the specific products designated herein and may not be valid where such products are used in combination with other materials or in any process. The performance of the product, its shelf life, and application characteristics depends on many variables, and changes in these variables can impact product performance. You are responsible to test the suitability of any product in advance for any intended use or application and before commercialization. Nothing herein shall be construed as a license for the use of any product in a manner that might infringe any patent and it should not be construed as an inducement to infringe any patent. Please carefully review the Safety Data Sheet for the product.

The Company adheres to a strict policy that applies to the use of any of its products in medical device applications. This policy can be found at <https://www.arkema.com/global/en/social-responsibility/innovation-and-sustainable-solutions/responsible-product-management/medical-device-policy/> which is incorporated herein by reference and made a part hereof. Except as expressly authorized, the Company (i) has designated specific medical grade compositions for products used in medical device applications and Company products not so designated are not authorized for use in medical device applications and (ii) strictly prohibits the use of any of its products in medical device applications that are implanted in the body or in contact with bodily fluids or tissues for greater than 30 days. The Company does not design, manufacture and/or directly sell any medical devices. The Company does not co-design, or offer assistance to any purchaser of its products, in their design, manufacture and/or sale of products for medical devices. It is the sole responsibility of the manufacturer of medical devices to determine the suitability of all raw material, products and components, including any medical grade products, in order to ensure that the medical device is safe for end-use and complies with all applicable legal and regulatory requirements and to conduct all necessary tests and inspections.

