# COVID-19 Rapid Test Kit from South Korea

Virus- & Anti-Body Test within 15 Minutes



# BRAINCHILD PARTNERS LLC.

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If you are interested in our products, please provide a LOI, addressed to: Rocket Media Communications (CY) LTD Mr. Michael Grabner, CEO Andrea Patsalidi 1, Aseka Building, 3rd Floor, Office 301 Agios Dometios, 2362 Nicosia, Cyprus

# COVID-19 Rapid Test Kit (RTK)

- Products : COVID-19 Rapid Test Kit (RTK)
- Origin : South Korea
- MOQ : 50,000 Tests
- Delivery Term : FOB South Korea
- Payment Term : 100% T/T In Advance
- HS Code : 3822.00.2019
- Capacity : 1,000,000 Tests / Month
- Remarks: CE Certified (DoC)
  - MFDS(Ministry of Food and Drug Safety in KOREA) to be obtained on April 27 (export available from April 27)

\*\* All price and delivery subject to final confirmation upon receipt of formal LOI/PO

DECLARATION OF CONFORMITY		
MANUFACTURER :		
EUROPEAN REPRESENTATIVE :	BRAINCHILD	
PRODUCT :	COVID-19 IgM/IgG Rapid Test	
EDMA code/Term :	15 04 80 90 00 Other Viral	
CLASSIFICATION :	Others	
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# COVID-19 Rapid Test Kit (RTK)

# Characteristics

- Test within 15 minutes
- Available for human Whole Blood / Serum / Plasma
- Just 1 drop of specimen (about 10µl.) needed
- Simple & convenient test procedure
- No bulky devices needed



The detection of IgM indicates the subject is at the early stage of infected with a virus. The detection of IgM and IgG indicates that it is 10 days since the subject was infected with



CAUTION! The results become invalid after 20 minutes!

# Interpretation



After 15 minutes, a red line must appear on C. If the red line is not visible on C, it is an invalid result. IgM and IgG antibodies to 2019 Novel Coronavirus can be detected with 2-3 weeks after exposure. IgG remains positive, but the antibody level drops overtime.



# COVID-19 Rapid Test Kit (RTK)



Cat.No.	Test	Box Size(mm)	Storage
PF09	10	122g,138 x 104 x 90	4°C to 30°C
PF09	20	188g,138 x 104 x 90	4°C to 30°C
PF09	100	ASAP	4°C to 30°C



# COVID-19 IgM/IgG Rapid Test

Rapid differential detection kit for IgM and IgG against COVID-19

in human serum, plasma and whole blood

Code No: PF09, 10 Tests / PF092, 20 Tests / RF0910, 100 Tests

# 1. INTENDED USE

COVID-19 IgM/IgG Rapid Test Kit (Whole Blood/Serum/Plasma) is a solid phase immunochromatographic assay for the rapid, qualitative and differential detection of IgG and IgM antibodies to 2019 Novel Coronavirus in human whole blood, serum or plasma.

This test provides only a preliminary test result. Therefore, any reactive specimen with the COVID-19 IgM/IgG Rapid Test kit (Whole Blood/Serum/Plasma) must be confirmed with alternative testing method(s) and clinical findings.

# 2. INTRODUCTION

Coronaviruses are enveloped RNA viruses that are distributed broadly among humans, other mammals, and birds and that cause respiratory, enteric, hepatic, and neurologic diseases. Seven coronavirus species are known to cause human disease. Four viruses - 229E, OC43, NL63, and HKU1 - are prevalent and typically cause common cold symptoms in immunocompetent individuals. The three other strains - severe acute respiratory syndrome coronavirus (SARS-CoV), Middle East respiratory syndrome coronavirus (MERS-CoV) and 2019 Novel Coronavirus (COVID-19) - are zoonotic in origin and have been linked to sometimes fatal illness. IgG and IgM antibodies to 2019 Novel Coronavirus can be detected with 2-3 weeks after exposure. IgG remains positive, but the antibody level drops overtime.



# 3. PRINCIPLE OF THE ASSAY

COVID 19 IgM/IgG Rapid Test device is a qualitative membrane strip based immunoassay for the detection of antibodies (IgG and IgM) to Novel coronavirus in human Whole Blood/Serum/Plasma. The test device consists of: 1) a burgundy colored conjugate pad containing Novel coronavirus recombinant envelope antigens conjugated with Colloid gold (Novel coronavirus conjugates), 2) a nitrocellulose membrane strip containing two test lines (IgG and IgM lines) and a control line (C line). The IgM line is pre-coated with the Mouse anti-Human IgM antibody, IgG line is coated with Mouse anti-Human IgG antibody. When an adequate volume of test specimen is dispensed into the sample well of the test device, the specimen migrates by capillary anction across the device. IgM anti-Novel coronavirus, if present in the specimen, will bid to the Novel coronavirus conjugates. The immunocomplex is then captured by the reagent pre-coated on the IgM band, forming a burgundy colored IgM line, indicataing a Novel coronavirus IgM positive test result. IgG anti-Novel coronavirus if present in the specimen will bind to the Novel coronavirus conjugates. The immunocomplex is then captured by the reagent coated on the IgG line, forming a burgundy colored IgG line, indicating a Novel coronavirus IgG positive test result. Absence of any T lines (IgG and IgM) suggests a negative result. To serve as a procedural control, a colored line will always appear at the control line region indicating that proper volume of specimen has been added and membrane wicking has occurred.

### 4. MATERIALS PROVIDED

- 1. Buffer
- 2. Package insert
- 3. 10-20ul Dropper
- 4. Device
- 5. Dessicant

# 5. MATERIALS REQUIRED BUT NOT PROVIDED

- 1. Lancets (for fingerstick whole blood only)
- 2. Centrifuge and Pipette (for plasma/serum only)
- 3. Timer

# 6. STORAGE AND STABILITY

- Store as packaged in the sealed pouch at the temperature (4-30°C or 40-86°F). The kit is stable within the expiration date printed on the labeling.
- Once open the pouch, the test should be used within one hour.
  - Prolonged exposure to hot and humid environment will cause product deterioration.
- 3. The LOT and the expiration date were printed on the labeling.

# 7. WARNINGS AND PRECAUTIONS

- 1. For professional In Vitro diagnostic use only. Do not use after expiration date.
- This package insert must be read completely before performing the test. Failure to follow the insert gives inaccurate test results.
- 3. Do not use it if the pouch is damaged or broken.
- 4. Test is for single use only. Do not re-use under any circumstances.
- Handle all specimens as if they contain infectious agents. Observe established precautions against microbiological hazards throughout testing and follow the standard procedures for proper disposal of specimens.
- Wear protective clothing such as laboratory coats, disposable gloves and eye protection when specimens are assayed.

7. Humidity and temperature can adversely affect results.

8. Do not perform the test in a room with strong air flow, ie. Electric or strong air-conditioning.

# 8. PROCEDURE

#### • SPECIMEN COLLECTION AND STROAGE

- 1. Specimen to be tested should be obtained and handled by standard methods for their collections.
- 2. Serum: Allow the blood to clot, then centrifuge to separate the serum.
- 3. Plasma: Collect the whole blood into the tube containing anticoagulants such as heparin, citrate, or EDTA. Centrifuge the blood and separate the plasma.
- 4. Whole blood: whole blood should be collected over heparin, citrate, or EDTA. Mix the blood by inversion and use it to the test. If fingertip blood is used to the test, prick the finger and collect the blood by a capillary tube. And then, load the blood onto the sample well (S) of the test device.
- All specimens should be tested as soon as early they are prepared, if necessary, they may be stored at 2-8°C for up to 24 hours or at -20°C for longer periods.

#### TEST PROCEDURE

- 1. Allow the test device and specimens (Whole Blood/Serum/Plasma) to equilibrate to temperature(15-30°C or 59-86°F) prior to testing.
- 2. Remove the test device from the sealed pouch.
- 3. Hold the dropper vertically and transfer 1 drop of specimen (approximately 10ul) to the specimen well (S) of the test device, then add 2 drops buffer (approximately 70ul) and start the timer. See the illustration below.
- Wait for colored lines to appear. Interpret the test results in 10-15 minutes. Do not read results after 20 minutes.



### 9. INTERPRETATION OF THE RESULTS

**Positive:** Control line and at least one test line appear on the membrane. The appearance of IgG test line indicates the presence of Novel coronavirus specific IgG antibodies. The appearance of IgM test line indicates the presence of Novel coronavirus specific IgM antibodies. And if both IgG and IgM line appear, it indicates that the presence of both Novel coronavirus specific IgG and IgM antibodies.

**Negative:** One colored line appears in the control region(C). No apparent colored line appears in the test line region.

**Invalid:** Control line fails to appear. Insufficient specimen volume or incorrect procedural techniques are the most likely reasons for control line failure. Review the procedure and repeat the test with a new test device. If the problem persists, discontinue using the test kit immediately and contact your local distributor.

# **10. QUALITY CONTROL**

A procedural control is included in the test. A red line appearing in the control region (C) is considered an internal procedural control. It confirms sufficient specimen volume, adequate membrane wicking and correct procedural technique. Control standards are not supplied with this kit. However, it is recommended that positive and negative controls be tested as good laboratory practice to confirm the test procedure and to verify proper test performance.

#### 11. LIMITATIONS OF THE TEST

1. The COVID-19 IgM/IgG Rapid Test device is limited to provide a qualitative detection. The intensity of the test line does not necessarily correlate to the concentration of the antibody in the blood.

2. The results obtained from this test are intended to be an aid in diagnosis only. Each physician must interpret the results in conjunction with the patient's history, physical findings, and other diagnostic procedures.

3. A negative test result indicates that antibodies to Novel coronavirus are either not present or at levels undetectable by the test.

# **Technical Assistance**

BRAINCHILD

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# **Material Safety Data Sheet**

COVID-19 IgM/IgG Rapid Test Kit

1. PRODUCT AND COMMPANY IDENTIFICATION

**GENERAL USE:** COVID-19 IgG/IgM Rapid Test Kit (Whole Blood/Serum/Plasma) is a solid phase immunochromatographic assay for the rapid, qualitative and differential detection of IgG and IgM antibodies to 2019 Novel Coronavirusi in human whole blood, serum or plasma. This test provides only a preliminary test result. Therefore, any reactive specimen with the COVID-19 IgG/IgM Rapid Test kit (Whole Blood/Serum/Plasma) must be confirmed with alternative testing method(s) and clinical findings.

EMERGENCY CONTACT INFORMATION COMMENTS: To the best of our knowledge, this Material Safety Data Sheet conforms to the requirements of the US OSHA 29 CFR1910.1200, Regulation EC 1907/ 2006 and Canadian Hazardous Products Act.

# 2. HAZARD IDENTIFICATION

This test kit should be used only by qualified personnel trained in laboratory procedures and familiar with their potential hazards. Specific warnings are given in the instructions for use. The absence of a specific warning should not be interpreted as an indication of safety.

NOTE: Handling, storing or shipping of the complete packaged kit should pose no threat to the individual. If no leak or excessive damage is noted, there is no recommended Personal Protective Equipment (PPE) required.

# Hazard Statements: Precautionary Statements:

GHS LABEL:

H303 Maybe harmful if swallowed	P626 Do not get in eyes, on skin, or on clothing.
H315 May cause skin irritation	P332 + P313 If skin irritation occurs: Get medical advice/attention
H333 May be harmful if inhaled	P273 Avoid release to the environment

**ROUTES OF ENTRY**: Inhalation, ingestion and absorption.

**POTENTIAL BIOHAZARD**: The kits contains material of human and/or animal origin. They have been tested and found nonreactive for the main infectious agents. Because no test can offer complete assurance that infectious agents are absent, these reagents should be considered as potentially biohazardous and handled with the same precautions as applied to any unknown serum or plasma samples and according to good laboratory practices.

# 3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	Contents
Test Device	It contains the following material : Colloidal gold Antibody Conjugate Pad, Coated Nitrocellulose , Absorbent paper , Fiber glass , PVC sh
Desiccant	Silica gel
Plastic housing ( applicable to the cassette )	Plastic

# 1) Colloidal gold Antibody Conjugate Pad

Contains: kalium carbonicum(584-08-7),COVID Antigens , colloidal gold(7440-57-5),Trisodium citrate(68-04-2), Bovine Serum Albumin (9048-46-8),Polyethylene Glycol (25322-68-3).

Colloidal gold Antibody Conjugate Pad Concentration :Contains 0.01-0.1% concentration or less of the chemicals listed above. The mixture (in the concentration provided) is not known to be an OSHA hazardous chemical or other regulator listed material. The mixture may cause skin and eye irritation upon contact in highly sensitive individuals. The material and its container should be disposed of in a safe way and in accordance with Local, State and Federal Regulations. No known or anticipated adverse health hazards are likely for the small amount of chemical mixture provided on this strip. Utilize Good Laboratory Practices.

# 2) Coated Nitrocellulose

Contains : Sodium Phosphate Dibasic (7558-79-4), Sodium Phosphate Monobasic (7558-80-7) , Goat Anti-Human IgM (N/A), Goat Anti-Human IgG (H+L) (N/A),Nitrocellulose(9004-70-0).

Coated Nitrocellulose Concentration:Contains 0.01-0.1% concentration or less of the chemicals listed above.The mixture (in the concentration provided) is not known to be an OSHA hazardous chemical or other regulator listed material. The mixture may cause skin and eye irritation upon contact in highly sensitive individuals. The material and its container should be disposed of in a safe way and in accordance with Local, State and Federal Regulations. No known or anticipated adverse health hazards are likely for the small amount of chemical mixture provided on this strip. Utilize Good Laboratory Practices.

# 3) Absorbent paper

Contains:The main components of the absorbent paper is cellulose(9012-19-5).It is not miscible in water.Caution, may cause skin, eye and respiratory irritation. May be harmful if swallowed or inhaled. When used and handled according to specification ,it does not have any harmful effects to our experience and the information provided to us.

# 4) Fiber glass

CAS# 65997-17-3(100%), Density:2.4-2.7g/cm<sup>3</sup>, Melting Point: 680°C(1832°F), Boiling point:1000°C(°F)

Caution, may be harmful if swallowed or inhaled. May cause irritation to skin, eye and respiratory tract. Avoid contact with bare hands and eyes. After contact with eyes, please rinse immediately with plenty of water and seek medical advice. This material must be disposed of in a safe way and in accordance with Local, State and Federal Regulations. Utilize Good Laboratory Practices.

# 5) PVC sheet

### CAS# 9002-86-2(100%). Density:1380 kg/m3 , Melting Point: 212°C(413.6°F)

Caution, in the process of combustion , It will release hydrogen chloride and other toxic gases, such as dioxin. When used and handled according to specification , it does not have any harmful effects to our experience and the information provided to us .

# 6) Desiccant

# Melting Point: 1610°C(2930°F), Density:2.6g/cm<sup>3</sup>, It is not miscible in water.

Contains : The main components of Desiccant is Silica gel(7631-86-9).

Caution, may cause skin,may be harmful if swallowed or inhaled.Avoid contact with eyes.After contact with eyes, please rinse immediately with plenty of water and seek medical advice.When used and handled according to specification ,it does not have any harmful effects to our experience and the information provided to us.

# 7) Plastic housing

Contains : the main components of Plastic housing is Polyethylene(9002-88-4).

Density:0.95g/cm<sup>3</sup> Melting Point: 284°C(°F)

Caution, may cause skin,eyes.After contact with eyes, please rinse immediately with plenty of water and seek medical advice.When used and handled according to specification ,it does not have any harmful effects to our experience and the information provided to us .

### 8) Sodium Phosphate Dibasic

**CAS# 7558-79-4 (Anhydrous);** 7782-85-6 (Heptahydrate) (100%), **Chemical Formula:** Na 2 HPO 4 · 7H 2 O, **pH:** 9.5, **Melting Point:** 48.1°C (118°F)

Caution, may cause skin, eye and respiratory irritation. May be harmful if swallowed or inhaled. This material and its container must be disposed of in a safe way and in accordance with Local, State and Federal Regulations. No known or anticipated adverse health hazards are likely for the small amount of chemical provided within the mixtures of this kit. Utilize Good Laboratory Practices.

# 9) Sodium Phosphate Monobasic

**CAS#** 7558-80-7 (Anhydrous); 10049-21-5 (monohydrate) (100%), **Chemical Formula:** NaH 2 PO 4 · H 2 0, **pH**: 9.5 , **Melting Point**: 100°C (212°F)

Caution, may cause skin, eye and respiratory irritation. May be harmful if swallowed or inhaled. This material and its container must be disposed of in a safe way and in accordance with Local, State and Federal Regulations. No known or anticipated adverse health hazards are likely for the small amount of chemical provided within the mixtures of this kit. Utilize Good Laboratory Practices.

### 10) Sodium Chloride

CAS# 7647-14-5 (100%), Specific Gravity: 2.165, LD50 (Oral): 3 mg/kg (rat), LD50 (Inhalation): >42 mg/m 3 – 1h , LD50 (Skin): >10mg/kg (rabbit) , Melting Point: 801°C, RTECS Number: VZ4725000 Synonyms: Salt, saline.

Sodium Chloride may cause skin, eye and respiratory irritation. In case of contact with eyes, rinse with water for at least 15 minutes then seek medical attention. This material and its container must be disposed of in a safe way and in accordance with Local, State and Federal Regulations. No known or anticipated adverse health hazards are likely for the small amount of chemical provided within the mixtures of this kit. Utilize Good Laboratory Practices.

# 4. FIRST AID MEASURES

**EYES:** Flush eyes with copious water for at least 15 minutes. Ensure adequate flushing by separating the eyelids with fingers while flushing with water. Check for and if possible remove contact lenses. Obtain medical attention.

**SKIN:** Remove contaminated clothing. Flush skin with copious water and wash affected area with soap and water. Obtain medical attention if symptoms occur.

**INGESTION:** If ingested, rinse out mouth thoroughly with water, provided the person is conscious, and obtain medical attention. Call a physician or the local poison control center. Treat symptomatically and supportively. If vomiting occurs, keep head lower than hips to prevent aspiration.

**INHALATION:** Remove person from exposure area to fresh air. Generally, this aqueous product is not a significant inhalation hazard in the kit volumes and concentrations. Treat symptomatically and supportively. If breathing is difficult give oxygen. If not breathing provide artificial respiration.

**HEALTH EFFECTS:** Symptoms of overexposure may include headache, dizziness, congestion and breathing difficulty. Skin contact may result in dermatitis and may cause allergic skin reaction upon repeated exposure.

# **5 FIRE FIGHTING MEASURE**

**EXTINGUISHING AGENT:** Use extinguishing media appropriate for the surrounding fire.CO 2, power or water spray .Fire larger fires with water spray or alcohol resistant foam.

**FIRE FIGHTING PROCEDURES:** Conventional firefighting full protective equipment (with NIOSH-approved self-contained breathing apparatus) and procedures appropriate for the surrounding fire should be sufficient.

# 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL/ LEAK:** Clean the spill area with water and wipe dry. Spills can also be absorbed with an appropriate inert material(e.g. spill pillows, acid absorbent pads, etc.) which is secured in an appropriate, labeled, sealed container. Material used to absorb the spill may require hazardous material waste disposal in accordance with all Local, State and Federal regulations. Utilize appropriate Personal Protective Equipment (PPE), including gloves, lab coat or apron and eye/face protection.

**GENERAL PROCEDURES:** Avoid creating dust or direct contact with skin, eyes, mucous membranes and clothing by wearing appropriate lab Personal Protective Equipment (PPE) including gloves, lab coat and eye/face protection. In the event of a hazardous material spill, contain the spill if it is safe to do so and immediately move to a safe area. Isolate the hazard area and ventilate if appropriate. Ensure that appropriate spill cleanup materials and PPE are available and used.

### 7. HANDLING AND STORAGE

**HANDLING:** The individual components within the test kit should be handled only by qualified personnel. Utilize Good Laboratory Practices and safety guidelines for handling chemicals and other hazards. Wear appropriate Personal Protective Equipment (PPE) including gloves, lab coat or equivalent and eye/face protection. Keep containers tightly closed; avoid splashing, spills and the generation of aerosols.

STORAGE: Store according to product and label instructions.

**NOTE:** Handling and storing of the packaged kit should not pose any threat to the shipper. If the product integrity is in question due to excessive damage, utilize proper safety procedures and handle using appropriate PPE.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**VENTILATION:** Adequate ventilation is required. Respiratory protection is not required under normal use of this product. If respiratory protection is needed, follow the OSHA regulation, 29CFR1910.134. Always use a NIOSH approved respirator when necessary.

**EYE PROTECTION:** Wear appropriate eye protection to prevent eye contact conforming to ANSI Z87.1-2003 (US) or EN 166 (EU) Standards.

**PROTECTIVE GLOVES:** Wear appropriate protective gloves to prevent skin contact. Replace torn or punctured gloves promptly.

**SKIN AND BODY:** Wear appropriate body protection to the amount and concentration of the chemical present at the location to prevent contact.

**COMMENTS:** Exposure limit values and health hazard data were given in Section 3 for the individual chemicals. General chemical/industrial hygiene practices are recommended when working with the product.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# AVAILABLE PHYSICAL/CHEMICAL PROPERTIES AND CHARACTERISTICS ARE LISTED IN SECTION 3

# **10. STABILITY AND REACTIVITY**

**STABLE:** The product is known to be stable under normal use and storage conditions.

**CONDITIONS TO AVOID:** Avoid excessive heat; maintain ambient temperatures. Avoid strong acids, bases, oxidizers and organic compounds.

HAZARDOUS DECOMPOSITION PRODUCTS: May emit toxic fumes under normal fire conditions.

# **11. TOXICOLOGICAL INFORMATION**

**ACUTE:** The product is not known to have any specific health or toxicological effects if used as offered for its intended purpose.

CHRONIC TOXICTY: None known if used as offered for its intended purpose.

**COMMENTS:** Individual chemical toxicological information has been made available in section 3.

# 12. ECOLOGICAL INFORMATION

**NOTE:** As offered, the product is not known to have a negative effect on the environment.

General Notes: Do not allow product to reach ground water,water course or sewage system.

# 13. DISPOSAL CONSIDERATION

**DISPOSAL METHOD:** Disposal of hazardous wastes, product or packaging must be conducted in accordance with all applicable Local, State and Federal Regulations. Must not be disposed together with household garbage .Do not allow product to reach sewage system.This section specifies the general and United States RCRA requirements. Processing, use or contamination of the kit components may change waste management requirements and options. Contact the authority having jurisdiction for your area for specific disposal requirements.

# 14. TRANSPORTATION INFORMATION

Not a hazardous material for transportation.

NOT restricted as per IATA DRG 59th edition.

DOT regulation:

Hazard class: None Land transport ADR/RID(cross-boarder)ADR/RID class: None Maritime transport IMDG:

IMDG Class: None Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: Product is Non-DG Cargo under 2020 IATA Dangerous Goods Regulation 61st edition and all applicable carrier and governmental regulations.

Transport/Additional information: Not dangerous according to the above specifications.

# 15. REGULATORY INFORMATION

NOTE: The information here is often based on data for the chemical raw material. The kit contains a significantly diluted concentration in an aqueous solution; thus, unless otherwise noted the assessment below has not taken hazard reduction processing into consideration when possible.

	Component	Additional Requirements	
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Sodium Phosphate Monobasic(100%)	International Inventory List (part 1): US (TSCA),
	Australia; Japan; EC.
	International Inventory List (part 2): Korea;
	Philippines & Canada DSL.
	SARA 311/312: Acute Health Hazard.
Sodium Phosphate Dibasic (100%)	International Inventory List (part 1): US
	(TSCA), Australia; Japan; EC.
	International Inventory List (part 2): Korea;
	Philippines & Canada DSL.
	SARA 311/312: Acute Health Hazard.
Sodium Chloride (100%)	DSCL (EEC): Irritant (Xn) R36/37/38 Irritating to
	eyes, respiratory system & skin, S36/37/38 Wear
	suitable protective clothing, gloves and eye/face
	protection.

# **16. OTHER INFORMATION**

The information contained herein is accurate to the best of our knowledge.Nantong Egens Biotechnology Co.,Ltd. makes no warranty of any kind, expressed or implied, concerning the safe use of this material in the process or in combination with other substances.This shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms:

**ADR:** Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

**RID:** Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

TSCA: Toxic Substances Control Act

**DOT:** U.S. Department of Transportation

RCRA: Resource Conservation and Recovery Act

**OSHA:** Occupational Safety and Health Act

NIOSH: National Institute for Occupational Safety and Health