ADITIVO ACELERADOR ECOBYC

Innovación y sostenibilidad en un solo producto: Aditivo acelerador ECOBYC del ciclo de biodegradación natural en una sola fase para dar cumplimiento con la Ley 2232 de 2022 y Resolución 0803 de 2024.

Certificado uso Aditivo acelerador Ecobyc empresa:

NOMBRE DEL CLIENTE: INVERSIONES COLSAN SAS
Nit: 901.130.335-8
Dirección: Carrera 11 No. 2 – 40 bodega 2 Barrio San Rafael
Teléfono: 317 510 4358
Bucaramanga, Santander
Correo: inversionescolsan@gmail.com

Uso: Fabricación de Bolsas y Rollos: INVERSIONES COLSAN SAS - BUCAPLAST

Manifestamos: Uso de aditivo acelerador Ecobyc como alternativa sustentable por sus propiedades:

1. **Biodegradable y Compostable**
   Aditivo acelerador Ecobyc (1%) que acelera la biodegradación natural, por la acción de microorganismos en condiciones de vertederos y rellenos sanitarios de forma aeróbica y anaeróbica.

2. **Cumple con Certificación FDA**
   En contacto con alimentos y cumple con la CONEG. No contiene ningún sintético fumigantes, fungicidas o conservantes.

3. **Normas ASTM que comprueban Biodegradación**
   D5511, D5526, D5338 y ISO 14021 etiquetas y declaraciones ambientales bajo la palabra "biodegradable".

4. **Texto bajo la ISO 14021 de 1999 (Etiquetas y declaraciones ambientales)**
   "Bolsa 100% reciclable y biodegradable en condiciones de vertederos y relleno sanitario por acción de microorganismos, en un periodo de uno a cinco (1 – 5) años, mediante el uso de aditivo acelerador ecobyc bajo normas ASTM D5338-5511-5526. Cumple con la Ley 2232 de 2022 y Resolución de 0803 de 2024"

5. **Solo se activa cuando….**
   Llegue a un relleno sanitario, vertedero, rio, mar o un ambiente con alto contenido de sólidos y humedad, por ser un proceso de una sola etapa.

6. **Reciclable**
   Productos aditivados con Aditivo acelerador Ecobyc pueden ser llevados a la economía circular sin contaminar los flujos de reciclaje, al no fragmentarse, por ser un proceso de una sola etapa.

ADITIVO ACELERADOR ECOBYC

Aditivo enzimático acelerador de la biodegradación del plástico en procesos industriales.

- **DESCRIPCIÓN GENERAL**

Aditivo enzimático acelerador de la biodegradación del plástico en procesos industriales.

- **ESPECIFICACIONES FISICOQUÍMICA**

PROPIEDAD	UNIDAD	METODO DE ENSAYO	RESULTADO
Apariencia	N/A	Visual	Pellet
Densidad de masa	g/cm^3		1,36 – 1,40
Puntos de fusión	°C °C	ASTM D3418-08 DSC DSC	 110 – 120 140 – 155
Dureza Shore D	--	ISO 868	59
Vicat VST A/50	°C	ISO 306	70
Índice de volumen de fusión MVR 190 °C, 5 kg	ml/10 min	ISO 133	5 - 11

- **APLICACIONES**

Aditivo acelerador que biodegrada en plástico en ambiente natural. Este aditivo se puede usar en procesos de inyección, extrusión y soplado. El porcentaje de dosificación es del 1%.

- **PRESENTACIÓN**

Saco x 25 kg.

- **PRECAUCIONES Y ADVERTENCIAS**

Evitar el contacto con los ojos e inhalación directa, en caso contrario lave con abundante agua durante 15 minutos. Si la reacción persiste consulte al médico. No ingiera alimentos durante la manipulación del producto. Mantenga fuera del alcance de niños y mascotas.

- **CONDICIONES DE ALMACENAMIENTO**

Almacénese en un lugar fresco, seco y ventilado. Consérvese cerrado en su envase original, alejado de la luz del sol y preferiblemente de cualquier otra fuente de luz y calor de larga exposición.

- **FABRICADO Y/O DISTRIBUIDO**

BYCSA SA. Barbosa (Planta): Corregimiento Popalito. Finca Los Búcaros Km 8 Vía a Porce.
TEL: (574)4682016

- **CONTÁCTENOS**

Bogotá PBX: (571) 7427171
Medellín PBX: (574) 604 0022
Cali PBX: (572) 487 8080
Barranquilla PBX: (575) 385 2020
Manizales PBX: (576) 894 4100
Guayaquil (Ecu) PBX: (593) 422 90 329

- **ACTUALIZACIÓN DE CONTENIDO**

Fecha	Cambios realizados	Responsable	Área
06/03/2025	Actualización de FT	Director de I+D	I+D

- **REVISIÓN DEL DOCUMENTO**

Fecha	Revisado	Responsable	Área
06/03/2025	Todo el documento	Coordinadora de calidad	Calidad

CONTROL DE LA INFORMACIÓN DOCUMENTADA				
NOMBRE	**CÓDIGO**	**FECHA**	**VERSIÓN**	**DESCRIPCIÓN**
Ficha Técnica	FT-ID-01	08/01/2021	1	Creación del documento

ELABORADO POR	REVISADO POR	APROBADO POR
Jesús Carlos Cornelio	Luz Bibiana Sánchez Henao	Isabel Cristina López A.

ADITIVO ACELERADOR ECOBYC

SECCIÓN 1: IDENTIFICACIÓN DE LA SUSTANCIA O LA MEZCLA Y DE LA SOCIEDAD O LA EMPRESA

1.1 Identificador del producto

Nombre comercial: ADITIVO ACELERADOR ECOBYC (Aditivo BioSphere)
Número del artículo: N.A
Número CAS: N.A
Número CE: N.A
Número de clasificación: N.A
Número de registro: N.A

1.2 Usos pertinentes identificados de la sustancia o de la mezcla y usos desaconsejados

Utilización del producto / de la elaboración:
Solo para procesos industriales – Resina Biodegradable

1.3 Datos del proveedor de la ficha de datos de seguridad

Fabricante/distribuidor:
Medellín: Calle 20 Sur # 25B-91 Barrio San Lucas; Tel: 310 3158383
Barbosa: Corregimiento Papalito Finca los Búcaros. Km 8 vía Porce; Tel: 604 0022
Bogotá: Calle 19C # 32-41; Tel: 742 7171
Cali: Carrera 7 34-341 Parque Industrial Las Delicias Bodega # 16; Tel: 487 8080 Fax.4100295
Manizales: Carrera 19A # 74A-31; Tel. 8944100 Fax. 8866188
Barranquilla: Vía 40 # 85 - 470. Bodega #19A. Bodegas Rodolfo Steckerl Sucesores & Cía. Ltda.; Tel: 385 2020
Guayaquil-Ecuador: Kennedy Norte. Ciudadela de las Garzas Manzana 12. Villa 24 Av. Francisco Orellana No. 218 Piso 2. PBX (593) 422 90 329
Teléfono de emergencia: ARL COLMENA: 018000 91 9667; #833; WhatsApp: 315 700 3033

SECCIÓN 2: Identificación de los peligros

2.1 Clasificación de la sustancia o de la mezcla

Clasificación según el Sistema Globalmente Armonizado:
Según el Reglamento (CE) n.º 1272/2008 [CLP]
No es necesaria la clasificación según los criterios del SGA para este producto.

2.2 Elementos de la etiqueta
Según el Reglamento (CE) n.º 1272/2008 [CLP], el producto no requiere una etiqueta de advertencia de peligro según los criterios del SGA.

Pictograma: N/A
Palabra de advertencia: N/A

Indicaciones de peligro:
Consejos de prudencia:
Según el Reglamento (CE) n.º 1272/2008 [CLP]
No se conocen peligros específicos si se tienen en cuenta las normas/notas sobre almacenamiento y manipulación.

SECCIÓN 3 - COMPOSICIÓN / INFORMACIÓN DE LOS COMPONENTES

3.1 Caracterización química: Sustancias o mezcla

Nombre	CAS	Concentración
Éster alifático-aromático modificado, polilactida, organoléptico, monosacáridos, aldohexosa	N/A	N/A

3.2 Información de los componentes:
N/A

SECCIÓN 4 - PRIMEROS AUXILIOS

4.1 Descripción de los primeros auxilios
Medidas generales: Si los síntomas persisten, busque ayuda médica. Nunca dé nada por la boca si el paciente está inconsciente.
Inhalación: Traslade a la víctima para tomar aire fresco en una posición que facilite la respiración. Comuníquese de inmediato con un centro médico/toxicológico.
Contacto con la piel: Lávese inmediatamente después del contacto con abundante agua, durante
Al menos 20 minutos. No neutralizar ni agregar sustancias distintas del agua.
Quítese la ropa contaminada y lávela antes de reusar.
Contacto con los ojos: Enjuague inmediatamente los ojos con agua durante al menos 20

minutos, y mantenga abiertos los párpados para garantizar que se aclara todo el ojo y Los tejidos del párpado. Enjuagar los ojos en cuestión de segundos es esencial para lograr la máxima eficacia. Si tiene lentes de contacto, quíteselas después de los primeros 5 minutos y luego continúe enjuagándose los ojos.

Ingestión: NO INDUZCA EL VÓMITO. Enjuague la boca, y dé de beber agua. Nunca suministre nada oralmente a una persona inconsciente. Llame al médico. Si el vómito ocurre espontáneamente, coloque a la víctima de costado para reducir el riesgo de aspiración.

4.2 Principales síntomas y efectos, agudos y retardados

N.A

4.3 Indicación de toda atención médica y de los tratamientos especiales que deban dispensarse inmediatamente

Notas para el médico: Mantener un grado adecuado de ventilación y oxigenación del paciente. Puede provocar sensibilización respiratoria o síntomas de asma. Ayudaran los broncodilatadores, expectorantes y antitusivos. Puede temporalmente agravar una obstrucción reversible de las vías respiratorias incluyendo asma y otras enfermedades asmáticas Tratar el bronco espasmo con inhalación de bronco dilatador beta 2 o con corticosteroides administrados por vía oral o parenteral. Los síntomas respiratorios, incluido el edema pulmonar, pueden aparecer tardíamente. Las personas que hayan estado sometidas a una exposición significativa se someterán a observación durante 24-48 horas para detectar signos de disfunción respiratoria. Las quemaduras químicas en los ojos pueden requerir una irrigación prolongada. Hacer una consulta rápida, preferentemente con un oftalmólogo. Si hay quemaduras, trátelas como quemaduras térmicas, después de descontaminarlas. Debido a sus propiedades irritantes, la ingestión puede producir quemaduras/ulceración de boca, estómago y tracto gastrointestinal inferior con la consiguiente gravedad. La aspiración de vómitos puede dañar los pulmones. Si se efectúa un lavado de estómago, se recomienda un control endotraqueal/esofágico. El daño probable a la mucosa puede contraindicar la aplicación de lavado gástrico. La exposición a los vapores puede causar sensibilización de la piel. En individuos sensibilizados, reexposición a cantidades muy pequeñas de vapor, niebla o líquido puede causar una reacción alérgica en la piel grave. No hay antídoto específico. El tratamiento de la exposición se dirigirá al control de los síntomas y a las condiciones clínicas del paciente. Cuando se llame al médico o al centro de control de envenenamiento, o se traslade para tratamiento, tenga disponible la Ficha de Datos de Seguridad, y si se dispone, el contenedor del producto y su etiqueta. Una exposición excesiva puede agravar el asma y otros desórdenes respiratorios preexistentes (ej. enfisema, bronquitis, síndrome de disfunción de vías respiratorias sensibles).

SECCIÓN 5 - MEDIDAS DE LUCHA CONTRA INCENDIOS

5.1 Medios de extinción

Usar polvo químico, espuma, agua en forma de niebla o anhidro carbónico.

5.2 Peligros específicos derivados de la sustancia o la mezcla.

Al quemarse pueden que algunos de los componentes de este producto se descompongan. El humo puede contener componentes tóxicos y/o irritantes no identificados. Los productos de la combustión pueden incluir, pero no exclusivamente: Monóxido de carbono. Dióxido de carbono (CO2). Este producto no quemará hasta que el agua se haya evaporado. El residuo puede arder.

5.3 Recomendaciones para el personal de lucha contra incendios

Instrucciones para extinción de incendio:

Rocíe con agua los embalajes para evitar la ignición si fueron expuestos a calor excesivo o al fuego. Retire los embalajes si aún no fueron alcanzados por las llamas, y puede hacerlo sin riesgo.

Rocíe con agua los recipientes para mantenerlos fríos. Enfríe los contenedores con chorros de agua hasta Mucho después de que el fuego se haya extinguido. Combata el incendio desde una distancia máxima o utilice soportes fijos para mangueras o reguladores.

Prevenga que el agua utilizada para el control de incendios o la dilución ingrese a cursos de agua, drenajes o manantiales.

Protección durante la extinción de incendios:

En derrames importantes use ropa protectora contra los productos químicos, la cual esté específicamente recomendada por el fabricante. Esta puede proporcionar poca o ninguna protección térmica.

SECCIÓN 6 - MEDIDAS EN CASO DE DERRAME ACCIDENTAL

6.1 Precauciones personales, equipo de protección y procedimientos de emergencia

Para el personal que no forma parte de los servicios de emergencia:

Evacuar al personal hacia un área ventilada.

Para el personal de emergencias:

Evacuar al personal hacia un área ventilada. Usar equipo de protección dérmica y ocular. Usar guantes protectores impermeables. No permitir la reutilización del producto derramado. Tener en cuenta la información y recomendaciones de las secciones 5 y 7. Utilizar el equipo de protección recomendado en el punto 8.

6.2 Precauciones relativas al medio ambiente

Contener el líquido con un dique. Prevenir la entrada hacia vías navegables, alcantarillas, sótanos o áreas confinadas. Los derrames o descargas a los cursos naturales de agua

pueden matar a los organismos acuáticos.

6.3 Métodos y material de contención y de limpieza

Recoger el producto utilizando arena, vermiculita, tierra o material absorbente inerte y limpiar o lavar completamente la zona contaminada. Neutralizar cuidadosamente, y con supervisión de un especialista. Disponer el agua y el residuo recogido en envases señalizados para su eliminación como residuo químico.

SECCIÓN 7: Manipulación y almacenamiento

7.1 Precauciones para una manipulación segura

Prohibido comer, beber o fumar durante su manipulación. Evitar contacto con ojos, piel y ropa. Lavarse los brazos, manos, y uñas después de manejar este producto. El uso de guantes es recomendado. Facilitar el acceso a duchas de seguridad y lavaojos de emergencias. Mantenga el recipiente cerrado. Manejar los envases con cuidado. No pulverice o forme aerosoles con el producto sin estar diluido. Mantener fuera del alcance de los niños. No lo lleve a los ojos, a la piel, o sobre la ropa. No lo trague. Evitar el contacto prolongado o repetido con la piel. Evite respirar el vapor. Mantener cerrado el contenedor. Utilizar con una ventilación adecuada.

7.2Condiciones de almacenamiento seguro, incluidas posibles incompatibilidades

Almacenamiento:

Almacenar en un área limpia, seca y bien ventilada. Proteger del sol. Revisar periódicamente los envases para advertir pérdidas y roturas. Mantener recipientes cerrados.

Exigencias con respecto al almacén y los recipientes:

Sin exigencia conocida. Conservar en el recipiente plástico original.

7.3 Usos específicos finales: No existen más datos relevantes disponibles

SECCIÓN 8: Controles de exposición/protección individual

8.1 Parámetros de control

Controles de ingeniería: Usar medidas de orden técnico para mantener las concentraciones atmosféricas por debajo de los límites de exposición. Puede ser necesaria la ventilación local en algunas operaciones.

Indicaciones adicionales:

Como base se han utilizado las listas vigentes en el momento de la elaboración

8.2 Controles de la exposición

Controles técnicos apropiados

Mantener ventilado el lugar de trabajo. La ventilación normal para operaciones habituales de manufacturas es generalmente adecuada. En áreas bajas o confinadas debe proveerse ventilación mecánica. Disponer de duchas y estaciones lavaojos.

Equipo de protección individual:

Medidas generales de protección e higiene:

Mantener alejado de alimentos, bebidas y alimentos para animales.
Quitarse de inmediato la ropa ensuciada o impregnada.
Lavarse las manos antes de las pausas y al final del trabajo.
Evitar el contacto con los ojos y la piel.

Protección respiratoria:



En los casos necesarios, utilizar protección respiratoria para vapores.

Protección de manos:



Guantes de protección

Al manipular este producto se deben usar guantes protectores impermeables de PVC, nitrilo, caucho o neopreno.

Protección de ojos:



Se deben usar gafas de seguridad, a prueba de salpicaduras de productos químicos.

Protección del cuerpo:

La ropa de trabajo protectora debe elegirse específicamente según el puesto de trabajo en función de la concentración y cantidad a trabajar.

SECCIÓN 9: Propiedades físicas y químicas

9.1 Información sobre propiedades físicas y químicas básicas

Datos generales

Estado físico: Granulos
Color: Natural
Punto de inflamación: > 280 °C (ASTM D1929)
Temperatura de ignición: > 400 °C (ASTM D1929)
Densidad aparente: aprox. 0,4 - 1,0 g/cm3 (20 °C, 1013 hPa)
Densidad relativa: aprox. 0,91-0,97
Descomposición térmica: > 295 °C Para evitar la descomposición térmica, no sobrecalentar.

9.2 Otros datos
No existen más datos relevantes disponibles.

SECCIÓN 10 – ESTABILIDAD Y REACTIVIDAD

10.1 Reactividad
El material es estable bajo condiciones estables. No provoca reacciones peligrosas si se manipula y se almacena adecuadamente.

10.2 Estabilidad química
Térmicamente estable a temperaturas normales de utilización.

10.3 Posibilidad de reacciones peligrosas
No ocurrirá polimerización

10.4 Condiciones que deben evitarse
El ingrediente activo se descompone a temperaturas elevadas.

10.5 Materiales incompatibles
Evitar el contacto con: Aminas. Amoniaco. Ácidos fuertes. Bases fuertes. Oxidantes fuertes. Evitar el contacto con metales como: Aluminio. Acero al carbón. Cobre. Hierro. Acero blando.

10.6 Productos de descomposición peligrosa
En caso de incendio, ver la Sección 5.

SECCIÓN 11 – INFORMACIÓN TOXICOLÓGICA

11.1 Información sobre los efectos toxicológicos
No hay información disponible.

Efectos agudos y retardados:
Vías de exposición: No hay información disponible.
Inhalación: No hay información disponible.
Contacto con la piel: No hay información disponible.
Contacto con los ojos: No hay información disponible.
Ingestión: No hay información disponible.

SECCIÓN 12 – INFORMACIÓN ECOLÓGICA

12.1 Toxicidad

Evaluación de toxicidad acuática: Existe una alta probabilidad de que el producto no sea extremadamente nocivo para los organismos acuáticos. El producto no ha sido probado. Esta afirmación se deriva de la estructura del producto.

12.2 Persistencia y degradabilidad

Evaluación de biodegradación y eliminación (H_2O):
El producto es biodegradable.
ASTM D5338
ASTM D5511
ASTM D5526
ASTM D7475
ISO 15985
Otras normas y métodos internacionales

12.3 Potencial de bioacumulación

Debido a la consistencia del producto y su baja solubilidad en agua, la biodisponibilidad es improbable.

12.4 Movilidad en el suelo

Evaluación del transporte entre compartimentos ambientales: Adsorción en el suelo: Estudio no justificado científicamente.

12.5 Resultados de la valoración PBT y mPmB

El producto no cumple los criterios de PBT (Persistente/bioacumulable/tóxico) y vPvB (muy persistente/muy bioacumulable).

12.6 Otros efectos adversos

El producto no contiene sustancias enumeradas en el Anexo I del Reglamento (CE) 2037/2000 sobre sustancias que agotan la capa de ozono.

SECCIÓN 13 – CONSIDERACIONES PARA DESECHO

Tanto el sobrante de producto como los envases vacíos deberán eliminarse según la legislación vigente en materia de Protección del Medio ambiente y en particular de Residuos Peligrosos. Deberá clasificar el residuo y disponer del mismo mediante una empresa autorizada.

SECCIÓN 14 – INFORMACIÓN PARA EL TRANSPORTE

14.1 Información relativa al transporte terrestre, aéreo (ICAO/IATA) y marítimo (IMO):

Nombre Apropiado para el Transporte: N° UN/ID: N.A Clase de Peligro: N.A Grupo de Embalaje: N.A	No está clasificado como mercancía peligrosa según las normas de transporte.

SECCIÓN 15: Información reglamentaria

1. Ley 55 de 1993 de la Presidencia de la Republica, por medio de la cual se aprueba el Convenio No 170 y la recomendación No 177 sobre la seguridad en la utilización de los productos químicos en el trabajo.

2. Decreto 1609 del 31 de julio de 2002. Ministerio de Transporte. Por el cual se reglamenta el manejo y transporte terrestre automotor de mercancías peligrosas por carretera. 3. Decreto 4741 de 2005. Por el cual se reglamenta parcialmente la prevención y el manejo de los residuos o desechos peligrosos generados en el marco de la gestión integral.

3. Resolución 1023 de 2005. Por la cual se adoptan las guías ambientales como instrumento de autogestión y autorregulación. En las cuales se incluye la siguiente guía: Guías ambientales de almacenamiento y transporte por carreteras de sustancias químicas peligrosas y residuos peligrosos.

4. Norma NTC 4435, actualización 2010.

5. Decreto 1496 del 6 de agosto de 2018, por el cual se adopta el Sistema Globalmente armonizado de clasificación y etiquetado de producto químicos y se dictan otras disposiciones en materia de seguridad química.

6. Naciones Unidas, Sistema globalmente armonizado de clasificación y etiquetado de productos químicos, tercera edición revisada, New York y Ginebra, 2009.

SECCIÓN 16: Otra información

16.1 Abreviaturas y acrónimos

N/A: no aplicable.
N/D: sin información disponible.
CAS: Servicio de Resúmenes Químicos
IARC: Agencia Internacional para la Investigación del Cáncer
ACGIH: American Conference of Governmental Industrial Hygienists.
TLV: Valor Límite Umbral
TWA: Media Ponderada en el tiempo
STEL: Límite de Exposición de Corta Duración
REL: Límite de Exposición Recomendada.
PEL: Límite de Exposición Permitido.
INSHT: Instituto Nacional de Seguridad e Higiene en el Trabajo.
ETA: estimación de la toxicidad aguda.
DL50: Dosis Letal Media.
CL50: Concentración Letal Media.
CE50: Concentración Efectiva Media.
CI50: Concentración Inhibitoria Media

16.2 Principales referencias bibliográficas y fuentes de datos

Colombia: NTC 4435, 22 de Julio de 1998
Sistema Globalmente Armonizado de Clasificación y Etiquetado de Productos Químicos, quinta edición revisada, 2015 (SGA 2015).

16.3 Clasificación y procedimiento utilizado para determinar la clasificación de la mezcla

La clasificación se ha efectuado en base a análogos químicos y a información del producto.
SECCIÓN 2: clasificación por analogía con otros productos, y en base a datos del producto.
SECCIÓN 9: datos del producto.
SECCIÓN 11 y 12: analogía con otros productos.

16.4 Exención de responsabilidad

La información indicada en esta Hoja de Seguridad fue recopilada y respaldada con la información suministrada en las Hojas de Seguridad de los proveedores. Es responsabilidad del usuario la interpretación y aplicación de esta información para su uso particular. La información contenida aquí se ofrece solamente como guía para la manipulación de este material específico y ha sido elaborada de buena fe por personal

técnico.

17. Registro de Cambios y Revisión

17.1 Actualización de contenido

27/03/2025	Actualización de FS	Director de I+D	I+D

17.2 Revisión del documento

Fecha	Revisado	Responsable	Área
27/03/2025	Todo el documento	Coordinadora de Calidad	Calidad

CONTROL DE LA INFORMACIÓN DOCUMENTADA

NOMBRE	CÓDIGO	FECHA	VERSIÓN	DESCRIPCIÓN
Ficha de Seguridad	FS-ID-01	08/01/2021	1	Creación del documento

ELABORADO POR	REVISADO POR	APROBADO POR
Jesús Carlos Cornelio	Luz Bibiana Sánchez Henao	Isabel Cristina López A.

Ecobyc Enzymatic Additive is Generally Regarded as Safe according to the FDA's testing specifications set out in 21 CFR 177.1630 and 21 CFR 177.1520.

Ecobyc Enzymatic Additive has conducted testing to show its product completely breaks down in accordance with the EPA Method 8015.

Ecobyc Enzymatic Additive is in compliance with the EU Directive 94/62/EC Directive on "Packaging and Packaging Waste" and complies with the following plastic directives: Directive 89/109/EEC and Directive 2002/72/EC.



Cristian Halaby
CEO BYCSA

compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories.* This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date December 12, 2024

International Accreditation Service
Issued under the authority of IAS management

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SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

INTERTEK INDIA PRIVATE LIMITED

www.intertek.com/india

Contact Name Dhanashree Bhelose **Contact Phone** +91-9930047685

Accredited to ISO/IEC 17025:2017 *Effective Date December 12, 2024*

Chemical	
APHA 2310 B	Acidity – Titration method
APHA 2320 B	Alkalinity – Titration method
APHA 2340 C	Hardness – EDTA Titration Method
APHA 2540 E	Solids – Fixed and Volatile Solids Ignited at 550°C.
APHA 4500-NH3C	Nitrogen (Ammonia) – Titrimetric method
APHA 4500-P C&D	Phosphorus – Vanadomolybdophosphoric acid colorimetric method & Stannous chloride method
APHA 5560 C	Organic And Volatile Acids-Distillation method
AS 4736	Biodegradable plastics – Biodegradable plastics suitable for composting and other microbial treatment
AS 5810	Biodegradable plastics – Biodegradable plastics suitable for home composting
ASTM D2980	Standard Test Method for Volume weights, Water-holding capacity, and Air capacity of water-saturated peat materials
ASTM D4129	Standard Test Method for total and organic carbon in water by high temperature oxidation and by coulometric detection
ASTM D5291	Standard Test Methods for instrumental determination of carbon, hydrogen, and nitrogen in petroleum products and lubricants
ASTM D5338	Standard Test Method for determining aerobic biodegradation of plastic materials under controlled composting conditions, incorporating thermophilic temperatures
ASTM D5511	Standard Test Method for Determining Anaerobic Biodegradation of Plastic Materials Under High-Solids Anaerobic-Digestion Conditions
ASTM D5526	Standard Test Method for determining anaerobic biodegradation of plastic materials under accelerated landfill conditions
ASTM D5864	Standard Test Method for determining aerobic aquatic biodegradation of lubricants or their Components
ASTM D5988	Standard Test Method for determining aerobic biodegradation of plastic materials in soil
ASTM D6400	Standard Specification for labelling of plastics designed to be aerobically composted in municipal or industrial facilities
ASTM D6691	Standard Test Method for determining aerobic biodegradation of plastic materials in the marine environment by a defined microbial consortium or natural seawater inoculum

ASTM D6868	Standard Specification for labelling of end items that incorporate plastics and polymers as coatings or additives with paper and other substrates designed to be aerobically composted in municipal or industrial facilities
ASTM D6954	Standard Guide for Exposing and testing plastics that degrade in the environment by a combination of oxidation and biodegradation
ASTM D8410	Standard Specification for Evaluation of Cellulosic-Fiber-Based Packaging Materials and Products for Compostability in Municipal or Industrial Aerobic Composting Facilities
ASTM E1676	Standard Guide for conducting laboratory soil toxicity or bioaccumulation tests with the Lumbricid Earthworm *Eisenia Fetida* and the Enchytraeid Potworm *Enchytraeus albidus*
ASTM E1963	Standard Guide for conducting terrestrial plant toxicity tests
EN 13432	Requirements for packaging recoverable through composting and biodegradation
EN 14995	Plastics - Evaluation of compostibity - Test scheme and specifications
IS 13933	Method of test for ready biodegradability of surface active agents (Modified Sturm Test)
IS 14684	Determination of Nitrogen and Nitrogenous compounds in Soils
IS 2720 (Part 2)	Indian Standard Methods of test for soils, Part II: Determination of water content
IS 3025 (Part 18)	Methods of sampling and test (physical and chemical) for water and wastewater, Part 18: Volatile and fixed solids (Total, filterable and non-filterable) at 550°C.
IS 3025 (Part 38)	Water & Wastewater – Methods of sampling and test (Physical & Chemical) Part 38: Dissolved oxygen
IS 3025 (Part 39)	Methods of sampling and test (physical and chemical) for water and wastewater, Part 39: Oil & Grease
IS 3025 (Part 65):2022	Methods of Sampling and Test Physical and Chemical for Water and Wastewater Part 65 Application of Inductively Coupled Plasma Mass Spectrometry (ICP-MS) – Determination of selected elements including Uranium Isotopes (first revision)
IS 15109 (Part 2)	Soil quality - Determination of the effects of pollutants on soil flora: Part 2 effects of contaminated soil on the emergence and early growth of higher plants (First Revision)
IS 17899 T:2022	Assessment of biodegradability of plastics in varied conditions
IS/ISO 14855 (Part 1)	Determination of ultimate aerobic biodegradability of plastic materials under controlled compositing conditions – Method by analysis of evolved carbon dioxide, Part 1: General method
IS/ISO 15985	Plastics – Determination of the ultimate anaerobic biodegradation and disintegration und high solids anaerobic digestion conditions – method of analysis of related biogas
IS/ISO 16929	Plastics – Determination of the degree of disintegration of plastic materials under defined composting conditions in a pilot-scale test

IS/ISO 17088-2021	Compostable plastics – Specification
IS/ISO 17556	Plastics – Determination of the ultimate aerobic biodegradability in soil by measuring the oxygen demand in a respirometer or the amount of carbon dioxide evolved
IS/ISO 20200	Plastics – Determination of the degree of disintegration of plastic materials under simulated composting conditions in a laboratory-scale test
ISO 4484 Part 2	Textiles and textile products – Microplastics from textile sources Part 2: Qualitative and quantitative analysis of microplastics
ISO 4892-1	Plastics — Methods of exposure to laboratory light sources Part 1: General guidance and requirements
ISO 4892-3	Plastics — Methods of exposure to laboratory light sources Part 3: Fluorescent UV lamps
ISO 11261	Soil quality – Determination of total nitrogen – Modified Kjeldahl method
ISO 11268 (Part 1)	Soil quality – Effects of pollutants on earthworms Part 1: Determination of acute toxicity to *Eisenia fetida*/*Eisenia Andrei* Exclusion: Annex B Culturing of earthworms
ISO 11268 (Part 2)	Soil quality – Effects of pollutants on earthwormsPart 2: Determination of effects on reproduction of *Eisenia fetida*/*Eisenia andrei* and other earthworm species
ISO 11269-2:2012	Soil quality – Determination of the effects of pollutants on soil flora – Part 2: Effects of contaminated soil on the emergence and early growth of higher plants
ISO 11465	Soil quality – Determination of dry matter and water content on a mass basis – Gravimetric method
ISO 14851:2019	Determination of the ultimate aerobic biodegradability of plastic materials in an aqueous medium – Method by measuring the oxygen demand in a closed respirometer
ISO 14852:2021	Determination of the ultimate aerobic biodegradability of plastic materials in an aqueous medium – Method by analysis of evolved carbon dioxide
ISO 14853:2016	Plastics – Determination of the ultimate anaerobic biodegradation of plastic materials in an aqueous system – Method by measurement of biogas production
ISO 14855 (Part 1)	Determination of the ultimate aerobic biodegradability of plastic materials under controlled composting conditions – Method by analysis of evolved carbon dioxide, Part 1: General method
ISO 14855-2:2018	Determination of the ultimate aerobic biodegradability of plastic materials under controlled composting conditions – Method by analysis of evolved carbon dioxide – Part 2: Gravimetric measurement of carbon dioxide evolved in a laboratory-scale test
ISO 15685:2012	Soil quality – Determination of potential nitrification and inhibition of nitrification – Rapid test by ammonium oxidation

ISO 15985	Plastics – Determination of the ultimate anaerobic biodegradation under high-solids anaerobic-digestion conditions – Method by analysis of released biogas
ISO 16221	Water quality – Guidance for determination of biodegradability in the marine environment
ISO 16929	Plastics – Determination of the degree of disintegration of plastic materials under defined composting conditions in a pilot-scale test
ISO 17088:2021	Plastics – Organic recycling – Specifications for compostable plastics
ISO 17088 Annexure B	Detection of Per - and poly - fluorinated compounds and maximum concentrations of other hazardous substances
ISO 17556	Plastics – Determination of the ultimate aerobic biodegradability of plastic materials in soil by measuring the oxygen demand in a respirometer or the amount of carbon dioxide evolved
ISO 18830	Plastics – Determination of aerobic biodegradation of non-floating plastic materials in a seawater/sandy sediment interface – Method by measuring the oxygen demand in closed respirometer
ISO 19679	Plastics – Determination of aerobic biodegradation of non-floating plastic materials in a seawater/sediment interface – Method by analysis of evolved carbon dioxide
ISO 20136	Leather – Determination of degradability by micro-organisms
ISO 20200	Plastics – Determination of the degree of disintegration of plastic materials under composting conditions in a laboratory-scale test
ISO 21701	Textiles –Test method for accelerated hydrolysis of textile materials and biodegradation under controlled composting conditions of the resulting hydrolysate
ISO 22403	Plastics – Assessment of the intrinsic biodegradability of materials exposed to marine inocula under mesophilic aerobic laboratory conditions – Test methods and requirements
ISO 22404	Plastics – Determination of the aerobic biodegradation of non-floating materials exposed to marine sediment – Method by analysis of evolved carbon dioxide
ISO 24187	Principles for the analysis of microplastics present in the environment
NF T51-800	Technical Specifications for plastics suitable for home composting
OECD 201	Freshwater Alga and Cyanobacteria, Growth Inhibition Test
OECD 202	Daphnia sp. Acute Immobilisation Test
OECD 203	Fish, Acute toxicity test
OECD 207	Earthworm, Acute toxicity tests
OECD 208	Terrestrial Plant Test: Seedling emergence and seedling growth test
OECD 222	Earthworm Reproduction test (*Eisenia fetida*/*Eisenia andrei*)
OECD 301 A-F	Ready Biodegradability A. DOC Die – Away B. CO_2 Evolution (Modified Strum Test)

	C. MITI (I) (Ministry of International Trade and Industry, Japan) D. Closed Bottle E. Modified OECD Screening F. Manometric Respirometry
OECD 302B	Zahn-Wellens/EMPA (1) Test
OECD 306	Biodegradability in Seawater
OECD 310	Ready Biodegradability - CO_2 in sealed vessels (Headspace Test)
PAS 9017	Plastics – Biodegradation of polyolefins in an open-air terrestrial environment – Specification

National Accreditation Board for Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

INTERTEK INDIA PRIVATE LIMITED (LABORATORY)

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

F WING, SECOND FLOOR AND GROUND FLOOR, TEX CENTRE, CHANDIVALI FARM ROAD, MUMBAI, MUMBAI SUBURBAN, MAHARASHTRA, INDIA

in the field of

TESTING

Certificate Number: TC-11664

Issue Date: 22/05/2023 **Valid Until:** 21/05/2025

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.
(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: INTERTEK INDIA PRIVATE LIMITED

Signed for and on behalf of NABL

N. Venkateswaran
Chief Executive Officer

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : INTERTEK INDIA PRIVATE LIMITED (LABORATORY), F WING, SECOND FLOOR AND GROUND FLOOR, TEX CENTRE, CHANDIVALI FARM ROAD, MUMBAI, MUMBAI SUBURBAN, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 22/05/2023 to 21/05/2025 **Last Amended on** 02/03/2024

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	BIOLOGICAL-TOXICOLOGY	Soil & Compost, Soild waste, Effluents sludge/slurry/solids	Earthworm Toxicity Test (Mortality Rate)	ASTM E1676
2	BIOLOGICAL-TOXICOLOGY	Soil & Compost, Soild waste, Effluents sludge/slurry/solids	Earthworm Toxicity Test (Mortality Rate)	IIPL/17025/ENV/SOP/6.4/27 (IS 17899 T Aerobic), Issue No. 02, Issue Date: 22.12.2022
3	BIOLOGICAL-TOXICOLOGY	Soil & Compost, Soild waste, Effluents sludge/slurry/solids	Earthworm Toxicity Test (Mortality Rate)	IIPL/17025/ENV/SOP/6.4/28 (IS 17899T anaerobic), Issue No. 2, Issue Date: 22.12.2022
4	BIOLOGICAL-TOXICOLOGY	Soil & Compost, Soild waste, Effluents sludge/slurry/solids	Earthworm Toxicity Test (Mortality Rate)	ISO 11268 (Part 1)
5	BIOLOGICAL-TOXICOLOGY	Soil & Compost, Soild waste, Effluents sludge/slurry/solids	Earthworm Toxicity Test (Mortality Rate)	ISO 11268 (Part 2)
6	BIOLOGICAL-TOXICOLOGY	Soil & Compost, Soild waste, Effluents sludge/slurry/solids	Seedling emergence and seedling growth test (Terrestrial Plant Toxicity Test)	ASTM E1963
7	BIOLOGICAL-TOXICOLOGY	Soil & Compost, Soild waste, Effluents sludge/slurry/solids	Seedling emergence and seedling growth test	IIPL/17025/ENV/SOP/6.4/25 (ASTM D6868), Issue No. 2, Issue Date: 22.12.2022
8	BIOLOGICAL-TOXICOLOGY	Soil & Compost, Soild waste, Effluents sludge/slurry/solids	Seedling emergence and seedling growth test	IIPL/17025/ENV/SOP/6.4/26 (EN 13432), Issue No. 2, Issue Date: 22.12.2022
9	BIOLOGICAL-TOXICOLOGY	Soil & Compost, Soild waste, Effluents sludge/slurry/solids	Seedling emergence and seedling growth test	IIPL/17025/ENV/SOP/6.4/27 (IS 17899T Aerobic), Issue No. 2, Issue Date: 22.12.2022
10	BIOLOGICAL-TOXICOLOGY	Soil & Compost, Soild waste, Effluents sludge/slurry/solids	Seedling emergence and seedling growth test	IIPL/17025/ENV/SOP/6.4/28 (IS 17899T Anaerobic), Issue No. 2, Issue Date: 22.12.2022
11	BIOLOGICAL-TOXICOLOGY	Soil & Compost, Soild waste, Effluents sludge/slurry/solids	Seedling emergence and seedling growth test	IIPL/17025/ENV/SOP/6.4/24 (ISO 17088), Issue No. 2, Issue Date: 22.12.2022
12	BIOLOGICAL-TOXICOLOGY	Soil & Compost, Soild waste, Effluents sludge/slurry/solids	Earthworm Toxicity Test (Mortality Rate)	IIPL/17025/ENV/SOP/6.4/24 (ISO 17088), Issue No. 2, Issue Date: 22.12.2022
13	BIOLOGICAL-TOXICOLOGY	Soil & Compost, Soild waste, Effluents sludge/slurry/solids	Earthworm Toxicity Test (Mortality Rate)	OECD 207
14	BIOLOGICAL-TOXICOLOGY	Soil & Compost, Soild waste, Effluents sludge/slurry/solids	Seedling emergence and seedling growth test	IIPL/17025/ENV/SOP/6.4/23 (ASTM D6400), Issue No. 2, Issue Date: 22.12.2022

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15	BIOLOGICAL- TOXICOLOGY	Soil & Compost, Soild waste, Effluents sludge/slurry/solids	Seedling emergence and seedling growth test	OECD 208
16	CHEMICAL- COSMETICS & ESSENTIAL OILS	Cosmetics oils, Soap facewash, bodywash, cleansing soaps, cosmetics gels, cosmetics raw material	Carbon dioxide evolved content	OECD 301B
17	CHEMICAL- COSMETICS & ESSENTIAL OILS	Cosmetics oils, Soap facewash, bodywash, cleansing soaps, cosmetics gels, cosmetics raw material	Carbon dioxide evolved content	IS 13933
18	CHEMICAL- LUBRICANTS	Paraffin oil, fuel, oils, Lubricants additives, wax	Carbon dioxide evolved content	ASTM D5864
19	CHEMICAL- LUBRICANTS	Paraffin oil, fuel, oils, Lubricants additives, wax	Carbon dioxide evolved content	IS 13933
20	CHEMICAL- LUBRICANTS	Paraffin oil, fuel, oils, Lubricants additives, wax	Carbon dioxide evolved content	OECD 301B
21	CHEMICAL- PAINTS & SURFACE COATING	Paint polymer, Paint pigment/colors, polishes, Coatings, surface polymer coating, oils	Carbon dioxide evolved content	OECD 301B
22	CHEMICAL- PAINTS & SURFACE COATING	Paint polymer, Paint pigment/colors, polishes, Coatings, surface polymer coating, oils	Carbon dioxide evolved content	IS 13933
23	CHEMICAL- PLASTIC & RESINS	Packaging Material, Plastics film/sheets and products, Polymer & additive coated/laminated paper, Polystyrene/ Polypropylene/ Nylon Textile fibers, Granules/powdered polymers	Conversion of carbon content of product to gaseous carbon dioxide	IS/ISO 14855 (Part 1)
24	CHEMICAL- PLASTIC & RESINS	Packaging Material, Plastics film/sheets and products, Polymer & additive coated/laminated paper, Polystyrene/ Polypropylene/ Nylon Textile fibers, Granules/powdered polymers	Carbon dioxide evolved content & conversion of carbon content of product to gaseous carbon	ASTM D5988
25	CHEMICAL- PLASTIC & RESINS	Packaging Material, Plastics film/sheets and products, Polymer & additive coated/laminated paper, Polystyrene/ Polypropylene/ Nylon Textile fibers, Granules/powdered polymers	Carbon dioxide evolved content & Conversion of carbon content of product to gaseous carbon	ISO 17556
26	CHEMICAL- PLASTIC & RESINS	Packaging Material, Plastics film/sheets and products, Polymer & additive coated/laminated paper, Polystyrene/ Polypropylene/ Nylon Textile fibers, Granules/powdered polymers	Total Organic Carbon	ASTM D4129
27	CHEMICAL- PLASTIC & RESINS	Packaging Material, Plastics film/sheets and products, Polymer & additive coated/laminated paper, Polystyrene/ Polypropylene/ Nylon Textile fibers, Granules/powdered polymers	Carbon dioxide evolved Content & Conversion of carbon content of product to gaseous carbon	ASTM D5338
28	CHEMICAL- PLASTIC & RESINS	Packaging Material, Plastics film/sheets and products, Polymer & additive coated/laminated paper, Polystyrene/ Polypropylene/ Nylon Textile fibers, Granules/powdered polymers	Carbon Dioxide Evolved Content (by conversion of carbon content of plastic material into gases under controlled composting conditions)	IS/ISO 14855 (Part 2)

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
29	CHEMICAL- PLASTIC & RESINS	Packaging Material, Plastics film/sheets and products, Polymer & additive coated/laminated paper, Polystyrene/ Polypropylene/ Nylon Textile fibers, Granules/powdered polymers	Carbon Dioxide Evolved Content (by conversion of carbon content of plastic material into gases under controlled composting conditions)	ISO 14855 (Part 2)
30	CHEMICAL- PLASTIC & RESINS	Packaging Material, Plastics film/sheets and products, Polymer & additive coated/laminated paper, Polystyrene/ Polypropylene/ Nylon Textile fibers, Granules/powdered polymers	Carbon dioxide and methane evolved content & Conversion of carbon content of product to gaseous carbon	ASTM D5511
31	CHEMICAL- PLASTIC & RESINS	Packaging Material, Plastics film/sheets and products, Polymer & additive coated/laminated paper, Polystyrene/ Polypropylene/ Nylon Textile fibers, Granules/powdered polymers	Conversion of carbon content of product to gaseous carbon dioxide	ISO 14855 (Part 1)
32	CHEMICAL- PLASTIC & RESINS	Packaging Material, Plastics film/sheets and products, Polymer & additive coated/laminated paper, Polystyrene/ Polypropylene/ Nylon Textile fibers, Granules/powdered polymers	Conversion of carbon content of product to gaseous carbon dioxide and methane	IS/ISO 14853
33	CHEMICAL- PLASTIC & RESINS	Packaging Material, Plastics film/sheets and products, Polymer & additive coated/laminated paper, Polystyrene/ Polypropylene/ Nylon Textile fibers, Granules/powdered polymers	Conversion of carbon content of product to gaseous carbon dioxide and methane	ISO 14853
34	CHEMICAL- PLASTIC & RESINS	Packaging Material, Plastics film/sheets and products, Polymer & additive coated/laminated paper, Polystyrene/ Polypropylene/ Nylon Textile fibers, Granules/powdered polymers	Conversion of carbon content of product to gaseous carbondioxide and methane	ISO 15985
35	CHEMICAL- PLASTIC & RESINS	Packaging Material, Plastics film/sheets and products, Polymer & additive coated/laminated paper, Polystyrene/ Polypropylene/ Nylon Textile fibers, Granules/powdered polymers	Degree of disintegration	ISO 16929
36	CHEMICAL- PLASTIC & RESINS	Packaging Material, Plastics film/sheets and products, Polymer & additive coated/laminated paper, Polystyrene/ Polypropylene/ Nylon Textile fibers, Granules/powdered polymers	Degree of disintegration	ISO 20200
37	CHEMICAL- PLASTIC & RESINS	Packaging Material, Plastics film/sheets and products, Polymer & additive coated/laminated paper, Polystyrene/ Polypropylene/ Nylon Textile fibers, Granules/powdered polymers	Evolved carbon dioxide for Ultimate aerobic biodegradability of plastic materials in an aqueous medium	ISO 14852
38	CHEMICAL- PLASTIC & RESINS	Packaging Material, Plastics film/sheets and products, Polymer & additive coated/laminated paper, Polystyrene/ Polypropylene/ Nylon Textile fibers, Granules/powdered polymers	Evolved carbon dioxide for Ultimate aerobic biodegradability of plastic materials in an aqueous medium	IS/ISO14852

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39	CHEMICAL- PLASTIC & RESINS	Packaging Material, Plastics film/sheets and products, Polymer & additive coated/laminated paper, Polystyrene/ Polypropylene/ Nylon Textile fibers, Granules/powdered polymers	Measuring the oxygen demand in a closed respirometer for Ultimate aerobic biodegradability of plastic materials in an aqueous medium.	ISO 14851
40	CHEMICAL- PLASTIC & RESINS	Packaging Material, Plastics film/sheets and products, Polymer & additive coated/laminated paper, Polystyrene/ Polypropylene/ Nylon Textile fibers, Granules/powdered polymers	Measuring the oxygen demand in a closed respirometer for Ultimate aerobic biodegradability of plastic materials in an aqueous medium.	IS/ISO 14851
41	CHEMICAL- PLASTIC & RESINS	Packaging Material, Plastics film/sheets and products, Polymer & additive coated/laminated paper, Polystyrene/ Polypropylene/ Nylon Textile fibers, Granules/powdered polymers	Ready Biodegradability - CO2 in sealed vessels (Headspace Test)	OECD 310
42	CHEMICAL- PLASTIC & RESINS	Packaging Material, Plastics film/sheets and products, Polymer & additive coated/laminated paper, Polystyrene/ Polypropylene/ Nylon Textile fibers, Granules/powdered polymers, Laminates/ Extrusion mixing polymer	Carbon content of plastic/polymer material	ASTM D5291
43	CHEMICAL- PLASTIC & RESINS	Packaging Material, Plastics film/sheets and products, Polymer & additive coated/laminated paper, Polystyrene/Polypropylene/ Nylon Textile fibers, Granules/powdered polymers	Carbon dioxide and methane evolved content & Conversion of carbon content of product to gaseous carbon	IS/ISO 15985
44	CHEMICAL- PLASTIC & RESINS	Packaging Material, Plastics film/sheets and products, Polymer & additive coated/laminated paper, Polystyrene/Polypropylene/ Nylon Textile fibers, Granules/powdered polymers	Carbon dioxide evolved content & Conversion of carbon content of product to gaseous carbon	IS/ISO 17556
45	CHEMICAL- PLASTIC & RESINS	Packaging Material, Plastics film/sheets and products, Polymer & additive coated/laminated paper, Polystyrene/Polypropylene/ Nylon Textile fibers, Granules/powdered polymers	Degree of disintegration	IS/ISO 16929
46	CHEMICAL- PLASTIC & RESINS	Packaging Material, Plastics film/sheets and products, Polymer & additive coated/laminated paper, Polystyrene/Polypropylene/ Nylon Textile fibers, Granules/powdered polymers	Degree of disintegration	IS/ISO 20200
47	CHEMICAL- POLLUTION & ENVIRONMENT	Sewage, effluent and wastewater	Oil and Grease	IS 3025 (Part 39)
48	CHEMICAL- POLLUTION & ENVIRONMENT	Sewage, effluent and wastewater	Acidity as CaCO3	APHA 24th Edition 2310 B
49	CHEMICAL- POLLUTION & ENVIRONMENT	Sewage, effluent and wastewater	Ammoniacal Nitrogen as NH3-N	APHA 24th Edition 4500-NH3 C

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50	CHEMICAL- POLLUTION & ENVIRONMENT	Sewage, effluent and wastewater	Dissolved oxygen (DO)	IS 3025 (Part 38)
51	CHEMICAL- POLLUTION & ENVIRONMENT	Sewage, effluent and wastewater	Total Alkalinity as Caco3	APHA 24th Edition 2320 B
52	CHEMICAL- POLLUTION & ENVIRONMENT	Sewage, effluent and wastewater	Total Hardness as Caco3	APHA 24th Edition 2340 C
53	CHEMICAL- POLLUTION & ENVIRONMENT	Sewage, effluent and wastewater	Total Phosphate as PO4	APHA 24th Edition 4500-P C & D
54	CHEMICAL- POLLUTION & ENVIRONMENT	Sewage, effluent and wastewater	Volatile solids	IS 3025 (Part 18)
55	CHEMICAL- POLLUTION & ENVIRONMENT	Soil & Compost, Soild waste, Effluents sludge/slurry/solids	Determination of potential nitrification and inhibition of nitrification	ISO 15685
56	CHEMICAL- POLLUTION & ENVIRONMENT	Soil & Compost, Soild waste, Effluents sludge/slurry/solids	Seedling emergence and seedling growth test	IS 15109 (Part 2)
57	CHEMICAL- POLLUTION & ENVIRONMENT	Soil & Compost, Soild waste, Effluents sludge/slurry/solids	Seedling emergence and seedling growth test	ISO 11269 (Part 2)
58	CHEMICAL- POLLUTION & ENVIRONMENT	Soil, Compost, Sediments	Determination of total nitrogen	ISO 11261
59	CHEMICAL- POLLUTION & ENVIRONMENT	Soil, Compost, Sediments	Determination of Water Content	IS 2720 (Part 2)
60	CHEMICAL- POLLUTION & ENVIRONMENT	Soil, Compost, Sediments	Total Dry Soilds	ISO 11465
61	CHEMICAL- POLLUTION & ENVIRONMENT	Soil, Compost, Sediments	Total Volatile solids	ISO 11465
62	CHEMICAL- POLLUTION & ENVIRONMENT	Soil, Compost, Sediments	Water Holding Capacity	ASTM D2980
63	CHEMICAL- POLLUTION & ENVIRONMENT	Soil, compost, Sediments.	Determination of Nitrogen and Nitrogenous Compounds	IS 14684
64	CHEMICAL- RESIDUES IN WATER	Groundwater/surface water, water for construction purposes, water for industrial purposes, water for swimming pools and Spas, and water from purifiers	Arsenic (AS)	IS 3025(part 65)
65	CHEMICAL- RESIDUES IN WATER	Groundwater/surface water, water for construction purposes, water for industrial purposes, water for swimming pools and Spas, and water from purifiers	Cadmium(Cd)	IS 3025(part 65)
66	CHEMICAL- RESIDUES IN WATER	Groundwater/surface water, water for construction purposes, water for industrial purposes, water for swimming pools and Spas, and water from purifiers	Chromium (Cr)	IS 3025(part 65)

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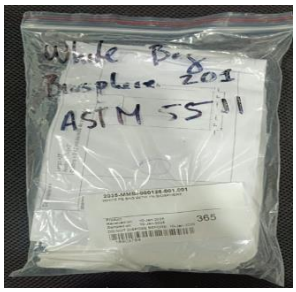
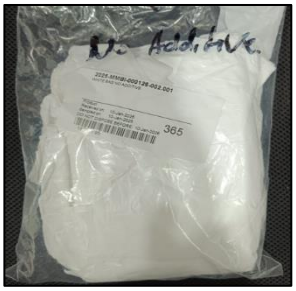
Validity 22/05/2023 to 21/05/2025 **Last Amended on** 02/03/2024

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
67	CHEMICAL- RESIDUES IN WATER	Groundwater/surface water, water for construction purposes, water for industrial purposes, water for swimming pools and Spas, and water from purifiers	Copper (Cu)	IS 3025(part 65)
68	CHEMICAL- RESIDUES IN WATER	Groundwater/surface water, water for construction purposes, water for industrial purposes, water for swimming pools and Spas, and water from purifiers	Lead (Pb)	IS 3025(part 65)
69	CHEMICAL- RESIDUES IN WATER	Groundwater/surface water, water for construction purposes, water for industrial purposes, water for swimming pools and Spas, and water from purifiers	Mercury (Hg)	IS 3025(part 65)
70	CHEMICAL- RESIDUES IN WATER	Groundwater/surface water, water for construction purposes, water for industrial purposes, water for swimming pools and Spas, and water from purifiers	Nickel (Ni)	IS 3025(part 65)
71	CHEMICAL- RESIDUES IN WATER	Groundwater/surface water, water for construction purposes, water for industrial purposes, water for swimming pools and Spas, and water from purifiers	Zinc (Zn)	IS 3025(part 65)
72	CHEMICAL- SOLID FUELS	Coal	Determination of Carbon	ASTM D5373
73	CHEMICAL- SOLID FUELS	Coal	Determination of Hydrogen	ASTM D5373
74	CHEMICAL- SOLID FUELS	Coal	Determination of Nitrogen	ASTM D5373
75	CHEMICAL- SOLID FUELS	Coal	Determination of Oxygen	ASTM D3176
76	CHEMICAL- SOLID FUELS	Coal	Determination of Sulphur	IS 1350 (Part 3)
77	CHEMICAL- SOLID FUELS	Coke	Determination of Carbon	ASTM D5373
78	CHEMICAL- SOLID FUELS	Coke	Determination of Hydrogen	ASTM D5373
79	CHEMICAL- SOLID FUELS	Coke	Determination of Nitrogen	ASTM D5373
80	CHEMICAL- SOLID FUELS	Coke	Determination of Oxygen	ASTM D3176
81	CHEMICAL- SOLID FUELS	Coke	Determination of Sulphur	IS 1350 (Part 3)
82	CHEMICAL- WATER	Ground Water	Volatile Solids	IS 3025 (Part 18)
83	CHEMICAL- WATER	Ground water	Oil & Grease	IS 3025 (Part 39)
84	CHEMICAL- WATER	Ground Water	Volatile acids	APHA 24th Edition 5560 C
85	CHEMICAL- WATER	Surface Water	Oil & Grease	IS 3025 (Part 39)
86	CHEMICAL- WATER	Surface Water	Volatile acid	APHA 24th Edition 5560 C
87	CHEMICAL- WATER	Surface Water	Volatile Solids	IS 3025 (Part 18)

TEST REPORT

Intertek India Private Limited
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Mumbai – 400 072, India.
Tel : +91 22 42450100
www.intertek.com

Report No.: MUM/000126/2025	**Sample No:** 18903794 - 95	**Report Date:** 27/06/2025

Sample Registration Date	10/01/2025	
Analysis Starting Date	10/01/2025	
Analysis Completed on	In process	
Sampling Done by	Sample drawn and supplied by customer	
Deviation from the test methods:	None	
Packaging Condition/sealed/unsealed	Sealed with box	
Sample Image	 **Figure 1: PE PLASTIC BAG 99% PE 1% Biosphere 201**	 **Figure 2: WHITE BAG NO ADDITIVE**

DETAILS PROVIDED BY THE CUSTOMER

Customer Name:	BYCSA S.A.
Contact Person:	Mr. Carolina Perez Quiros
Address:	CALLE 20 SUR # 25B 91 INT 130
	0500001 MEDELLIN, COLOMBIA
Sample submitted as	1) PE PLASTIC BAG 99% PE 1% Biosphere 201(Aditivo Acelerador ECOBYC) (Group sample for BYCSA-BYCSA COSTUMERS-CAMARA AMBIENTAL DEL PLASTICO AFILIATES-BIOSPHERE) 2) WHITE BAG NO ADDITIVE
Description on label/Sample Bottle	PE PLASTIC BAG 99% PE 1% Biosphere 201 and WHITE BAG NO ADDITIVE
Sample type	PE PLASTIC BAG 99% PE 1% Biosphere 201 and WHITE BAG NO ADDITIVE
Quantity	1 Packet
Mode of Packaging	Courier Box
Sample condition	Sample was at ambient temperature in good condition
Test Method	ASTM D5511: Standard Test Method for Determining Anaerobic Biodegradation of Plastic Materials Under High-Solids Anaerobic-Digestion Conditions
Procedure number	NA

Note : The results reported relate to the sample tested only. Latest version of designated test methods has been used wherever it requires. The Test Certificate shall not be reproduced in full or part without the written permission of INTERTEK. The sample(s) has not been drawn/sampled by INTERTEK LAB. The reported result(s) provide no warranty or verification on the sample(s) representing any specific goods and / or shipment and only relate to the sample(s) as received and tested. This report was prepared solely for the use of the client named in this report. Intertek disclaims any and all liability for damage or injury which results in the use of the information contained herein and accepts no responsibility for any loss, damage or liability suffered by a third party as a result of any reliance upon or use of this report. All jobs are performed as per Intertek terms & Conditions available at htpp://www.intertek.com/terms/or can be made available on request

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LABORATORY

Testing as presented in this report was conducted by Environmental division of Intertek India Private Limited. The testing facility is located at F wing, 2nd Floor, Chandivali Saki vihar Road, Andheri (East), Mumbai – 400 072, India.

SAMPLE RECEIPT

The PE PLASTIC BAG 99% PE 1% Biosphere 201 (Aditivo Acelerador ECOBYC) (Group sample for BYCSA-BYCSA COSTUMERS- CAMARA AMBIENTAL DEL PLASTICO AFILIATES- BIOSPHERE) and WHITE BAG NO ADDITIVE samples were received on 10/01/2025 at the Intertek testing facility. The sample was sent through courier. The sample was at ambient temperature in good condition with no evidence of damage or contamination. No temperature preservation was required.

PROJECT DESCRIPTION:

PE PLASTIC BAG 99% PE 1% Biosphere 201 and WHITE BAG NO ADDITIVE samples were submitted by BYCSA S.A. for testing under standard ASTM D5511. This test method covers the determination of the degree and rate of anaerobic biodegradation of plastic materials in high-solids anaerobic conditions. The test materials are exposed to a methanogenic inoculum derived from anaerobic digesters operating only on pretreated household waste. The anaerobic decomposition takes place under high-solids (more than 30 % total solids) and static non-mixed conditions. This test method is designed to yield a percentage of conversion of carbon in the sample to carbon in the gaseous form under conditions found in high-solids anaerobic digesters, treating municipal solid waste.

INOCULUM COLLECTION AND CONDITIONING

The anaerobic digested sewage sludge (Figure 2) mixed with household waste was obtained from the Chembur (Mumbai). To make the sludge adapted and stabilized during a short post-fermentation at 53°C, the sludge was pre-incubated (one week) at 53°C. This means that the concentrated inoculum was not fed but allowed to post ferment the remains of previously added organics allowing large easily biodegradable particles were degraded during this period and reduce the background level of biogas from the inoculums itself.

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Figure 3: Anaerobic microbial inoculum

INOCULUM PROPERTIES

A sample of the anaerobic digested sewage sludge was analyzed for pH, percent dry solids, and volatile solids, as well as, the amount of CO_2 and CH_4 evolution during the testing. Table 1 lists the results of this initial testing.

METHODOLOGY:

Inoculum Medium: Remove enough inoculum (approximately 15 kg) from the post-fermentation vessel and mix carefully and consistently by hand in order to obtain a homogeneous medium. Test three replicates each of a blank (inoculum only), Positive control (Reference material) (thin-layer chromatography cellulose), negative control (optional), and the test substance being evaluated.

Manually mix 1000 g wet weight (at least 20 % dry solids) of inoculum in a small container for a period of 2 to 3 min with 15 to 100 g of volatile solids of the test substance or the controls for each replicate. For the three blanks containing inoculum only, manually mix 1000 g of the same inoculum in a small container for a period of 2 to 3 min with the same intensity as was done for the other vessels containing test substance or controls. Determine the weight of the inoculum and test substance added to each individual Erlenmeyer flask accurately. Add the mixtures to a 2-L wide-mouth Erlenmeyer flask and gently spread and compact the material evenly in the flask to a uniform density.

After placing the Erlenmeyer flask in incubator, connect it with the gas collection device. Incubate the Erlenmeyer flasks in the dark or in diffused light at 52°C (± 2°C) for thermophilic conditions, The incubation time shall be run until no net gas production is noted for at least five days from both the Positive control (Reference material) and test substance reactors. Control the pH of the water used to measure biogas production to less than two by adding HCl.

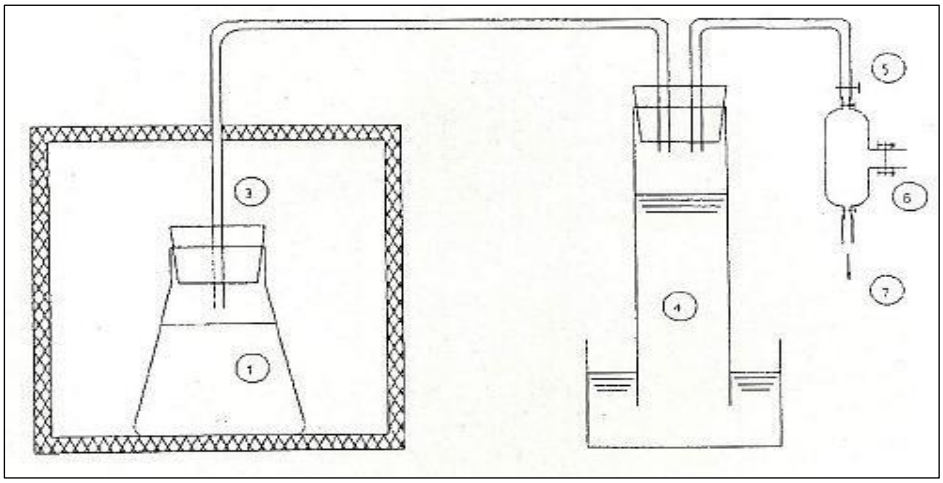
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ANAEROBIC DIGESTER SETUP FOR THE PLASTIC BIODEGRADATION

The biodegradation testing of sample was performed in the digester as shown in the (Figure-3).



1. Digester
2. Incubator
3. Gas outlet
4. Gas collector
5. Valve
6. Gas Sampling
7. Gas Discharge

Figure-4: Digester setup

RESULT:

The most important biochemical characteristics of the inoculum such as pH, Volatile Fatty Acids, NH4+-N— and dry solids were studied.

Table 1: Results of Initial testing of the anaerobic digested sewage sludge.

Parameters	Requirement	Actual results
pH	7.5 to 8.5	8.10
Kjeldahl nitrogen	0.5 to 2 g/kg wet weight	1.42
Dry Solids at 105 ˚C	>20%	44.00
Volatile Solids at 550 ˚ C	Below 1 g/kg wet weight	0.76

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The biogas volume in the gas sampling bag was measured (Table- 2). Presence of gas in the gas collector of Positive control (Reference material) indicated that the inoculum was viable and gas displacement was observed both in Positive control (Reference material) and Test Sample.

ASTM D 5511 states that for the test to be considered valid, the Positive control (Reference material) must achieve 70 % within 30 days with deviation less than 20% of the mean between the replicates.

The gas displacement observed after 90 days is as shown in the table below.

Table-2: Biogas volume of the evolved gas during the biodegradation process at 90 days

Biodegradation Test	**Total Volume 90 days(mL)**
Inoculum	2900
Positive control (Reference material)	10250
PE PLASTIC BAG 99% PE 1% Biosphere 201	6650
WHITE BAG NO ADDITIVE	3100

The percent biodegradation of Positive control (Reference material) and Test sample was calculated by the measured cumulative carbon dioxide and methane production from each flask after subtracting carbon dioxide evolution and methane evolution from the blank samples at the end of 90 days of testing. Calculations were based on Total Organic Carbon obtained of both Positive control (Reference material) and Test sample.

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Table-3: Percentage biodegradability of Test sample with respect to Positive control (Reference material) Cellulose.

Group	**Inoculum control**	**Positive control (Reference material)**	**PE PLASTIC BAG 99% PE 1% Biosphere 201**	**WHITE BAG NO ADDITIVE**
Weight	1000 ml	10.2483 g	15.5825 g	15.4237 g
Total volume (ml)	2900.00	10250.00	6650.00	3100.00
% CH_4	13.60	44.60	21.50	16.00
Volume of CH_4 (ml)	394.40	4571.50	1429.75	496.00
weight of CH_4 (g)	0.2587	2.9989	0.9379	0.3254
% CO_2	14.50	44.90	23.40	14.40
Volume of CO_2 (ml)	420.50	4602.25	1556.10	446.40
Weight of CO_2 (g)	0.8326	9.1125	3.0811	0.8839
Total weight of carbon in grams	0.4188	4.7095	1.5353	0.4827
Theoretical weight of carbon in grams (Ci)	-	4.3115	12.1472	12.2717
Biodegradation	-	0.99518	0.09191	0.00520
% Biodegradation	-	**99.52**	**9.19**	**0.52**

Reviewed By

Alok Pandey
Assistant Manager - Biodegradability Services

Authorized Signatory

Ushadevi Yadav
Deputy Manager - Biodegradability Services

---------- **End of Report** ----------

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