



SAFETY DATA SHEET

In accordance with Commission Regulation (EU) 2020/878 amending Annex II of Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2024/2865 (CLP)

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Revision History

Version	Date	Changes
1.0	24 February 2015	Initial issue
2.0	24 March 2021	Update according to new requirements.
3.0	26 June 2026	Updated for EU Regulation 2024/2865 (new CLP hazard classes: PMT/vPvM, endocrine disruption); added microplastics reporting note (REACH Annex XVII, Entry 78); UK REACH section added; Aluminium and Additives voluntarily disclosed; jurisdiction-split OEL guidance; revised Section 10.5; editorial corrections throughout

Note: - "This Safety Data Sheet is supplied voluntarily for customer information. The product is an article under REACH and is not legally required to be accompanied by an SDS."

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

1.1 Product Identifier

Trade Name: FLEXOPP™, FLEXMETPROTECT™, FLEXALOXPROTECT™

Chemical Name: Polypropylene and its Copolymer/Aluminium Metalized

Synonyms: Bi-axially oriented Polypropylene (BOPP)

CAS Number: 9003-07-0 (Polypropylene), 7429-90-5 (Aluminium)

EC Number: 618-352-4 (Polypropylene), 231-072-3 (Aluminium)

REACH Registration: Not applicable. Exempt from registration as a polymer under Article 2(9) of Regulation (EC) No 1907/2006. Monomers are registered by the upstream supply chain.

1.2 Relevant Identified Uses and Uses Advised Against

Recommended Use: Flexible packaging applications, decorative applications, industrial applications, food packaging, building protection, and cosmetic packaging.

Restrictions on Use: No restrictions on use identified.

1.3 Details of the Supplier of the Safety Data Sheet

Manufacturer/Supplier: UFLEX LIMITED (Film Business)

Street Address: A-1, Sector-60, NOIDA – 201301 (U.P.), INDIA

Telephone / Fax: +91 120-3982121 / Fax: +91 120-2580511

Website: www.flexfilm.com

Contact: Mob. +91-991-004-8152 | Email: ajay.gupta@uflexltd.com



Manufacturing Sites:

- India: UFLEX LIMITED, A-1, Sector-60, NOIDA-201 301, U.P., INDIA. Tel: +91 (120) 4002121 | enquiry@uflexltd.com
- Egypt: FLEX P FILMS (EGYPT) S.A.E, Plot no. R2, Engineering Square (e2), Plot no. 3, North Extension of Industrial Zone, 6 October City, Egypt. Tel: +2 023 828 3000 | enquiry.eg@flexfilm.com
- Hungary: FLEX FILMS EUROPA Kft., 2651 Rétság, Ipari Park 7, HUNGARY. Tel: +36 20 747 3636 | enquiry@flexfilm.com

1.4 Emergency Telephone Number

Supplier Emergency Line: +91 120-3982121, 3982535, 3982658 (office hours only)

⚠ 24/7 Poison Centre Contacts (use in preference to supplier line outside office hours):

- India: +91-11-26589391 (AIIMS Poison Control Centre, New Delhi)
- Hungary: +36 80 201 199 (ETTSZ — Egészségügyi Toxikológiai Tájékoztató Szolgálat / National Emergency Toxicology Service; 24/7)
- Egypt: +20 2 23685260 (Poison Control Centre, Cairo)
- EU (general): Consult the national body appointed per Article 45 of Regulation (EC) No 1272/2008 for the relevant Member State.

2. HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

CLP/GHS Classification: NOT a dangerous substance or mixture per Regulation (EC) No 1272/2008 (CLP). This article does not meet the criteria for classification.

2.2 Label Elements

Labelling (CLP): No labelling required. The product is an article without intentional release of substances.

Signal Word: None.

Hazard Statements: None.

Precautionary Statements (Voluntary — included as good practice for dust, fume, or molten-material handling conditions; not required by the CLP classification of this article. Downstream users should not infer mandatory labelling obligations from these statements):

- P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
- P262: Do not get in eyes, on skin, or on clothing.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P402: Store in a dry place.

2.3 Other Hazards

PBT and vPvB Assessment: Components do not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

Endocrine Disrupting Properties: The substance/mixture does not contain components identified as having endocrine disrupting properties for human health or the environment at $\geq 0.1\%$ (w/w) per Regulation (EU) 2017/2100 or Regulation (EU) 2018/605.

New CLP Hazard Classes (Regulation (EU) 2024/2865): The substance/mixture does not meet the criteria for PMT (Persistent, Mobile and Toxic) or vPvM (Very Persistent and Very Mobile) under the newly introduced hazard classes.

3. COMPOSITION / INFORMATION ON INGREDIENTS

This mixture does not contain any substances requiring declaration according to the criteria of Section 3.2 of REACH Annex II. The ingredients* below are voluntarily disclosed in the interest of transparency.

Chemical Name	CAS No.	EC No.	% (w/w)	CLP Classification / Notes
Polypropylene	9003-07-0	618-352-4	80–98	Not classified. Nanoforms: None.
Aluminium	7429-90-5	231-072-3	< 0.2	Not classified at this concentration. Nanoforms: None. (Voluntarily disclosed below the 1% CLP threshold in the interest of transparency for customers with food contact or process-specific requirements.)
Additives (processing aids, slip agents, antistatic agents)	—	—	< 1	Not classified at this concentration. Nanoforms: None. (Voluntarily disclosed below the 1% CLP threshold. Specific additive details available on request subject to confidentiality constraints.)

*For exact compositions please contact supplier with grade name.

4. FIRST AID MEASURES

4.1 Description of First Aid Measures

General: Observe good industrial hygiene practices.

Eye Contact: Exposure to hot molten material: rinse immediately with plenty of water and seek hospital treatment. In case of irritation from vapours or fumes under normal conditions, wash with water; seek medical advice if symptoms persist.

Skin Contact: Exposure to hot molten material: rinse with plenty of water. Do NOT attempt to remove clothing or adhering material (risk of further skin damage). Seek immediate medical attention.

Inhalation: Fumes/vapours from heated or burning material may irritate the respiratory tract. Move the affected person to fresh air. Seek medical advice if symptoms continue.

Ingestion: Seek medical attention. Do not induce vomiting unless directed by medical personnel. If a significant quantity of film has been ingested (e.g., by a child), hospital assessment is recommended even in the absence of immediate symptoms, due to the risk of mechanical obstruction.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

Acute Effects: Thermal burns from contact with molten polymer; mechanical irritation to the respiratory tract if exposed to high concentrations of fumes generated by overheating.

Delayed Effects: Repeated or prolonged inhalation of thermally generated fumes in poorly ventilated conditions may cause irritation of the mucous membranes and airways. No chronic systemic effects are currently known for polypropylene under normal processing conditions.

4.3 Immediate Medical Attention and Special Treatment

Treat symptomatically. For thermal burns, follow standard medical burn treatment protocols. There is no specific antidote.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Suitable: Carbon dioxide (CO₂), firefighting foam, AFFF (Aqueous Film-Forming Foam), water mist (to cool



surfaces exposed to fire).

Unsuitable: None known.

5.2 Special Hazards Arising from the Substance or Mixture

Hazardous Combustion Products: Complete combustion with excess oxygen produces carbon dioxide (CO₂) and water vapour. Thermal decomposition or incomplete combustion may liberate carbon monoxide (CO), toxic hydrocarbons, and/or corrosive fumes.

5.3 Advice for Fire-Fighters

- Stop the fire from spreading; call the fire brigade immediately; evacuate non-essential personnel.
- Wear protective clothing, goggles, and self-contained breathing apparatus (SCBA).
- Cool containers/roll stock exposed to fire with water spray to prevent ignition or structural collapse.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

6.1.1 Non-Emergency Personnel: Avoid inhalation of dust and contact with skin and eyes. Wear appropriate personal protective equipment (PPE) — see Section 8.

6.1.2 Emergency Responders: Remove ignition sources (especially for powdered/dust grades). Keep away from heat and flame. Sweep up with minimum dusting. Collect in appropriate containers (e.g., fibreboard drums or cartons).

6.2 Environmental Precautions

Keep material out of drains and water sources. Do not allow contaminated water, pellets, or film fragments to enter any waterway, sewer, or drain. Notify relevant environmental authorities if a significant release occurs.

6.3 Methods and Material for Containment and Cleaning Up

Containment: Avoid dust formation. Collect dust using a vacuum cleaner equipped with a HEPA filter. If not possible, gently moisten dust with a water fog before collecting with a shovel or broom.

Cleaning Up: Pellets or film slabs on the floor present a serious slip hazard. Maintain good housekeeping at all times. Sweep, shovel, or vacuum material into clean, labelled waste disposal containers. Flush residual area with water.

6.4 Reference to Other Sections

See Section 8 for personal protective equipment. See Section 13 for waste disposal.

7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling

Protective Measures: Keep away from ignition sources. Observe general rules of industrial fire protection. Ground containers and transfer equipment to prevent static build-up (static electrical charges can develop during processing when film moves over metal rollers, providing a potential ignition source for flammable vapours/gases or causing static shocks).

Handling Instructions: Keep film at room temperature for 24 hours prior to processing. Keep original



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wrapping on until use. Preserve partially-used balance rolls in standard packaging with a clear identification sticker. Move film rolls only with equipment designed for the purpose — rolls and pallets are heavy. Film edges are sharp and may cause cuts; handle with appropriate care and gloves.

Fire Prevention: No smoking. Store in a cool, dry place out of direct sunlight, away from incompatible materials.

Occupational Hygiene: Provide adequate PPE including gloves, impervious sleeves, aprons, and eye/face protection as appropriate to the task.

7.2 Conditions for Safe Storage, Including Any Incompatibilities

Storage Conditions: No special storage conditions required. Storage below 30°C is recommended to prevent deterioration of film surface properties. Storage in low-humidity conditions is also recommended; surface-treated and metallised grades may be sensitive to moisture, which can adversely affect coating adhesion and surface treatment levels.

Stock Rotation: Rotate film stock using a First-In, First-Out (FIFO) system.

Shelf Life: 6 months for bare film (FLEXOPP™) and 3 months for metallised film (FLEXMETPROTECT™ & FLEXALOXPROTECT™) from the date of dispatch. Material beyond its shelf life should be inspected for surface property degradation (e.g., reduced surface tension, delamination, or adhesion loss) before use. Contact the supplier for guidance if shelf-life-expired material is to be considered for use.

Packaging: Keep packages closed to prevent contamination.

7.3 Specific End Use(s)

Regulatory Compliance Note — Microplastics (REACH Annex XVII, Entry 78): This product as a continuous film article is exempt from the sales restrictions on synthetic polymer microparticles (SPMs). However, if the material is trimmed, slit, or otherwise processed at industrial sites in a manner that generates SPMs (e.g., dust, flakes, or powder), the operator must calculate, record, and report annual SPM emissions in accordance with the applicable REACH Annex XVII, Entry 78 obligations.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Occupational Exposure Limits (OELs): No substance-specific OEL has been established for polypropylene film. Standard solid film use does not generate respirable dust. Where dust, fumes, or vapours are generated during processing, apply generic “Particles Not Otherwise Classified” (PNOC) limits as a guide:

Jurisdiction	Standard	Inhalable Fraction	Respirable Fraction
EU (indicative)	EU Directive 2017/164/EU (IOELV); national legislation prevails	10 mg/m ³	4 mg/m ³
USA (reference only)	ACGIH TLV-TWA (PNOC)	10 mg/m ³	3 mg/m ³
India (manufacturing site)	Factories Act 1948 / MSIHC Rules 1989; OSHA India guidance (PNOC). Site-specific limits may apply under state factory inspector schedules.	10 mg/m ³ (guideline)	5 mg/m ³ (guideline)
Egypt (manufacturing site)	Egyptian Law No. 137/1981 (Labour Law) and Ministerial Decree No. 211/2003 on Occupational Health and Safety. EU PNOC values used as guidance where national limits are not substance-specific.	10 mg/m ³ (guidance)	4 mg/m ³ (guidance)

Customers and downstream users must consult the applicable national OEL legislation for their jurisdiction.



EU member state legislation takes precedence over indicative limits.

8.2 Exposure Controls

8.2.1 Engineering Controls: Use process enclosures, local exhaust ventilation (LEV), or other engineering controls to keep worker exposure below applicable limits. Where dust, fumes, or mist are generated, install exhaust hoods positioned above converting equipment.

Eye/Face Protection: Standard eye protection practices apply. Chemical goggles are recommended in dusty conditions or where hot material is processed.

Skin/Hand Protection: Minimising skin contact is good practice. Where contact with hot molten material is possible, wear heat-insulating, chemical-resistant gloves, protective clothing, and face shields.

Respiratory Protection: Where adequate engineering controls cannot maintain exposure below OELs, use appropriate respiratory protective equipment (RPE) — minimum P2/FFP2 dust mask for dust; full-face respirator with combination filter for processing fumes.

Thermal Hazards: Wear appropriate thermally protective clothing when working with molten or elevated-temperature material.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

Property	Value / Data
Physical State	Solid (Plastic Film)
Colour	Transparent, Translucent, Opaque, Pearl, Metallic (product-dependent)
Odour	Odourless
Melting Point / Freezing Point	160–165°C
Boiling Point / Boiling Range	Not applicable (solid film)
Flammability	Not classified as a flammable solid under GHS/CLP. The product will burn if ignited but does not meet Category 1 or 2 criteria under CLP.
Flash Point	350°C
Auto-Ignition Temperature	> 380°C
Decomposition Temperature	> 235°C (do not heat above this limit)
Lower / Upper Explosion Limits	Not applicable (solid film)
pH	Not applicable (solid film)
Kinematic Viscosity	Not applicable (solid film)
Solubility in Water	Practically insoluble
Solubility in Organic Solvents	Insoluble in common organic solvents at 20°C
Partition Coefficient (log K _{ow})	No data available
Vapour Pressure	Not applicable (solid film)
Density / Relative Density	0.88–0.91 g/cm ³ (typical BOPP film). Range 0.65–0.95 g/cm ³ for full product family including voided/cavitated and metallised grades. Specific values on product-level Technical Data Sheets.
Relative Vapour Density	Not applicable



Property	Value / Data
Particle Characteristics	Not applicable (continuous film article)

9.2 Other Information

Physical Hazard Classes: Not applicable.

Dispersion Property: No data available.

Standard Enthalpy of Formation ($\Delta_f H^\circ_{298}$): No data available.

Standard Molar Entropy (S°_{298}): No data available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

The product is stable and non-reactive under normal conditions of use, storage, and transport.

10.2 Chemical Stability

Stable under normal conditions of use and storage. No chemical degradation is expected below the decomposition temperature of 235°C. Storage above 30°C may affect surface properties (see Section 7.2) but does not affect chemical stability.

10.3 Possibility of Hazardous Reactions

No hazardous reactions known under normal atmospheric conditions of use.

10.4 Conditions to Avoid

- Do not heat to temperatures exceeding 235°C.
- Avoid contact with strong oxidising agents, strong alkalis, and strong acids.
- Avoid open flame, sparks, and other ignition sources, particularly where dust or powder grades are present.

10.5 Incompatible Materials

- Strong oxidising agents (e.g., peroxides, chlorine compounds).
- Halogens.
- Flammable solvents or gases (avoid co-storage or co-processing; static discharge from moving film may act as an ignition source for flammable vapours).
- Strong acids and strong alkalis.

10.6 Hazardous Decomposition Products

Thermal decomposition or combustion may produce toxic and/or corrosive gases or fumes, including carbon monoxide (CO), carbon dioxide (CO₂), and low-molecular-weight hydrocarbons.

11. TOXICOLOGICAL INFORMATION

11.1 Information on Hazard Classes as Defined in Regulation (EC) No 1272/2008



Polypropylene is generally regarded as physiologically inert in its solid film form under normal ambient conditions of use. No hazardous toxicological effects are known from solid-state exposure. The hazards below relate primarily to molten material, dust, or thermally generated fumes during processing.

Endpoint	Data / Assessment
Acute Toxicity (oral/dermal/inhalation)	No data available for the article as supplied. Polypropylene is not expected to present acute systemic toxicity by any route under normal use conditions.
Skin Corrosion/Irritation	Not expected under normal ambient use conditions. Contact with hot molten material causes severe thermal burns; do NOT attempt to remove adhering clothing or material.
Serious Eye Damage/Irritation	No data available for normal conditions. Contact with hot molten material requires immediate rinsing with water and hospital evaluation.
Respiratory/Skin Sensitisation	No data available. Not expected based on composition.
Germ Cell Mutagenicity	No data available. Not classifiable.
Carcinogenicity	Not classifiable as to carcinogenicity to humans (IARC Group 3). Inadequate evidence in animals; no data in humans for polypropylene.
Reproductive Toxicity	No data available. Not expected based on composition.
STOT — Single Exposure	No data available. Fumes/vapours from heated or burning material may irritate the respiratory tract.
STOT — Repeated Exposure	No data available. Repeated or prolonged inhalation of thermally generated fumes in poorly ventilated environments may cause irritation of the upper respiratory tract and mucous membranes.
Aspiration Hazard	Not applicable (solid film).

Route-Specific Toxicity Summary

Inhalation: Fumes/vapours from heated or burning material can irritate the respiratory tract. Move the affected person to fresh air immediately.

Skin Contact: Thermal injury from molten material. Standard dermal irritation not expected from solid film under ambient conditions.

Eye Contact: Thermal injury from molten material. Mechanical irritation from film edges possible; standard eye protection is recommended.

Ingestion: Under intended use conditions, does not present a health risk. Do not induce vomiting.

Chronic Toxicity: No data available. Polypropylene is widely used in food contact applications and is not considered to present chronic systemic risk under normal exposure conditions.

NIOSH IDLH: No data available.

11.2 Information on Other Hazards

11.2.1 Endocrine Disrupting Properties: This product contains no components considered to have endocrine disrupting properties with respect to human health per Regulation (EU) 2017/2100 or Regulation (EU) 2018/605 at $\geq 0.1\%$ (w/w).

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity

No data available for acute or chronic aquatic toxicity (freshwater or marine), sediment toxicity, soil toxicity, or effects on sewage treatment plant (STP) micro-organisms for the article as supplied. Polypropylene is



not expected to present acute ecotoxicity under normal use as a solid film.

12.2 Persistence and Degradability

Non-biodegradable, non-compostable. Polypropylene does not meet the criteria for ready biodegradability. The material is expected to fragment rather than biodegrade in the environment.

12.3 Bioaccumulative Potential

No data available. Bioconcentration is not expected due to the high molecular weight ($MW > 1,000$ g/mol) of polypropylene, which prevents absorption across biological membranes.

12.4 Mobility in Soil

No data available. In terrestrial environments, the material is expected to remain in the soil rather than leach to groundwater, due to its insoluble, high-molecular-weight nature.

12.5 Results of PBT and vPvB Assessment

Product components do not meet the criteria for PBT (Persistent, Bioaccumulative and Toxic) or vPvB (Very Persistent and Very Bioaccumulative) per Regulation (EC) No 1907/2006, Annex XIII.

12.6 Endocrine Disrupting Properties

Contains no components with endocrine disrupting properties with respect to non-target organisms per Regulation (EU) 2018/605.

12.7 Other Adverse Effects

Environmental note: The product is not classified as environmentally hazardous under CLP. In aquatic environments, polypropylene film is expected to float (density < 1 g/cm³). As a non-biodegradable synthetic polymer (see Section 12.2), film fragments or debris may persist in the environment and contribute to plastic pollution if not properly collected and managed. Disposal must follow Section 13 recommendations; release to the natural environment must be avoided. Note: Industrial operations that generate synthetic polymer microparticles (SPMs) from this film (e.g., trimming, slitting, or cutting) are subject to annual emissions reporting obligations under REACH Annex XVII, Entry 78 — see Section 7.3 for details.

13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Product Disposal: Pick up film to avoid slip hazard. Mechanical recycling is the preferred disposal option where infrastructure exists. Energy recovery through forced-draft incineration and landfill are acceptable alternatives in accordance with applicable local, national, and regional regulations. Recycling should be prioritised where technically and economically feasible.

Sewage Disposal: Do not dispose of waste material or rinsings into sewers or surface water.

EU Waste Code (EWC/EWL): 07 02 13 — Waste plastics.

Note: Waste classification may differ depending on downstream processing or contamination. The waste generator is responsible for determining the appropriate waste code under the applicable national legislation.

14. TRANSPORT INFORMATION

Transport Parameter	Status
14.1 UN Number or ID Number	Not classified as dangerous goods — not restricted.
14.2 UN Proper Shipping Name	Not restricted.
14.3 Transport Hazard Class(es)	Not restricted.
14.4 Packing Group	Not restricted.
14.5 Environmental Hazards	Not restricted / Not classified as an environmental hazard for transport purposes.
14.6 Special Precautions for User	None.
14.7 Maritime Transport in Bulk (IMO)	Not applicable.

15. REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations/Legislation

EU Regulations: Complies with Regulation (EC) No 1907/2006 (REACH), Regulation (EC) No 1272/2008 (CLP), Regulation (EU) 2020/878, and Regulation (EU) 2024/2865.

Authorisations and/or Restrictions on Use: None.

Microplastics (REACH Annex XVII, Entry 78): This product as a continuous film article is exempt from the sales restrictions on synthetic polymer microparticles. Downstream industrial operations resulting in SPMs (e.g., dust, powder, flakes) are subject to annual reporting obligations under REACH Annex XVII, Entry 78. See also Section 7.3.

Food Contact Compliance: Customers using this film for food contact applications should request a Declaration of Compliance (DoC) from the supplier confirming conformity with applicable food contact regulations (e.g., EU Regulation (EC) No 10/2011 for plastic food contact materials).

UK REACH: Where this product is supplied into Great Britain (England, Scotland, Wales), UK REACH (retained Regulation (EC) No 1907/2006 as amended by the REACH (Amendment) (EU Exit) Regulations 2019) applies. A GB-format SDS may be required for UK customers and is available on request from the supplier. The product's polymer exemption and non-classification status are expected to be consistent under UK REACH; however, customers and importers should verify current GB regulatory status with the supplier and their own legal advisors. This SDS is authored in EU format under Regulation (EU) 2020/878.

15.2 Chemical Safety Assessment

A chemical safety assessment has not been required or carried out for this article by the supplier, in accordance with Article 14(2) of Regulation (EC) No 1907/2006 (polymer exemption).

16. OTHER INFORMATION

Technical Advice & Hazard Controls

- Create and maintain a Register of Workplace Chemicals and associated emergency response plans.
- Ensure all chemicals in the workplace are clearly marked and labelled in accordance with CLP.
- Maintain a centralised collection of current Safety Data Sheets accessible to all relevant workers.
- Train workers to read and understand Safety Data Sheets, including health hazards, routes of exposure, and emergency protocols.



Abbreviations and Acronyms

Abbreviation	Definition
ACGIH	American Conference of Governmental Industrial Hygienists
AIIMS	All India Institute of Medical Sciences
BOPP	Bi-axially Oriented Polypropylene
CLP	Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging
CO / CO ₂	Carbon Monoxide / Carbon Dioxide
DoC	Declaration of Compliance
ETTSZ	Egészségügyi Toxikológiai Tájékoztató Szolgálat (Hungarian National Toxicology Service)
FIFO	First-In, First-Out
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
HEPA	High-Efficiency Particulate Air (filter)
IARC	International Agency for Research on Cancer
IDLH	Immediately Dangerous to Life or Health
LEV	Local Exhaust Ventilation
NIOSH	National Institute for Occupational Safety and Health (USA)
OEL	Occupational Exposure Limit
PBT / vPvB	Persistent, Bioaccumulative and Toxic / Very Persistent and Very Bioaccumulative
PMT / vPvM	Persistent, Mobile and Toxic / Very Persistent and Very Mobile
PNOC	Particles Not Otherwise Classified
PPE	Personal Protective Equipment
REACH	Regulation (EC) No 1907/2006 (Registration, Evaluation, Authorisation and Restriction of Chemicals)
RPE	Respiratory Protective Equipment
SCBA	Self-Contained Breathing Apparatus
SPM	Synthetic Polymer Microparticle(s)
STOT	Specific Target Organ Toxicity
STP	Sewage Treatment Plant
TLV-TWA	Threshold Limit Value — Time-Weighted Average

Key Literature Sources

- European Chemicals Agency (ECHA) — substance and mixture database, guidance documents.
- IARC Monographs on the Evaluation of Carcinogenic Risks to Humans.
- Safety Data Sheets of raw material/component manufacturers.
- Regulation (EC) No 1907/2006 (REACH) and associated ECHA guidance on SDS authoring.
- Regulation (EU) 2024/2865 (revised CLP Delegated Regulation).



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