SDS-ADDITIVEMAST 09 Aug 2026

SAFETY DATA SHEET

ADDITIVE MASTERBATCHES

CAS No.: Proprietary blend (polymer carrier resin with pigment/additive dispersion – not a single-substance CAS number)

This Safety Data Sheet is issued by Suraj Chemicals as the distributor/supplier of record, based on manufacturer and published GHS / regulatory reference data for this substance. Users should also consult the specific manufacturer's SDS where available.

1. IDENTIFICATION

GHS Product identifier

ADDITIVE MASTERBATCHES
Functional Additive Concentrate (UV stabiliser / antioxidant / anti-block / slip / antistatic / anti-fog grades)
CAS: Proprietary blend (polymer carrier resin with pigment/additive dispersion – not a single-substance CAS number)

Other means of identification

Not relevant

Recommended use of the chemical and restrictions on use

Relevant uses: Imparting functional properties – such as UV/light stabilisation, antioxidant protection, anti-blocking, slip, antistatic or anti-fog performance – to plastic films and moulded/extruded articles, as an alternative to direct dosing of neat additives. For industrial user only – let down into base polymer at manufacturer-recommended dosage during plastics processing (extrusion, injection/blow moulding, film blowing).

Uses advised against: All uses not specified in this section or in section 7.3. Not for food-contact applications unless separately certified for that purpose.

Supplier's details

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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS:
Classification of this product has been carried out in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). As supplied (solid pellets/granules with pigments and additives fully encapsulated/dispersed in a thermoplastic carrier resin), the product does not meet GHS classification criteria as a hazardous substance or mixture.

Not classified	Does not meet GHS classification criteria as a hazardous substance/mixture in the solid, as-supplied pellet form

GHS label elements, including precautionary statements

GHS: No signal word, pictogram or hazard statement required under GHS for the solid pellet as supplied.

Hazard statements

None assigned.

Precautionary statements

P264: Wash hands thoroughly after handling.
P280: Wear protective gloves/eye protection where dust is generated (e.g. regrind grinding) or during hot processing.
P304+P340: IF INHALED (fume from thermal processing): Remove person to fresh air and keep comfortable for breathing.
P501: Dispose of contents/container in accordance with local regulations.

Other hazards which do not result in classification

The specific functional additive package (UV stabiliser, antioxidant, slip, anti-block or antistatic type) varies by product grade; details of the active additive system used in a given grade are available on request. Thermal decomposition during processing at excessive temperatures, or in a fire, can release irritant fumes (see Sections 5 and 10). Fine dust generated during regrinding/pulverising of pellets should be controlled and not inhaled. Not identified as PBT/vPvB for the product as supplied; the exact identity and concentration of proprietary pigment/additive components is available on request under a signed confidentiality agreement.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures

Chemical description: Functional additive masterbatch – polyolefin carrier resin with a high loading of one or more functional additives (e.g. hindered amine light stabilisers, antioxidants, fatty-amide slip agents, silica/talc anti-block agents, or antistatic agents), grade dependent

Identification	Chemical Name / Classification	Concentration
Proprietary	Thermoplastic carrier resin (e.g. PE/PP/EVA base, grade dependent) – Not classified	Balance (typically 50–80% w/w)
Proprietary	Pigment(s)/functional additive(s) dispersed in the carrier resin – see product-specific technical data sheet; individual components may carry their own classification in concentrated/raw form (see Section 3 note below)	Available on request (typically 20–50% w/w active loading, grade dependent)

Exact composition, pigment/additive CAS numbers and concentrations are proprietary and available on request. To obtain more information on the hazards of the substances, consult sections 11, 12 and 16.

4. FIRST AID MEASURES

Description of necessary first-aid measures

Under normal handling of the solid pellet, first aid is generally not required. If needed (principally relevant to processing fume/dust exposure):

By inhalation
If fume from thermal processing or dust from regrinding causes irritation, remove the person to fresh air and keep at rest. Seek medical attention if symptoms persist.

By skin contact
Wash affected skin with soap and water. If molten material contacts skin, cool immediately with plenty of cold water; do not peel off adhered molten polymer – seek medical attention for thermal burns.

By eye contact
Rinse eyes thoroughly with plenty of water for several minutes, holding eyelids open. Seek medical attention if irritation persists.

By ingestion/aspiration
Not applicable in normal use (solid pellet); if accidentally swallowed and discomfort occurs, seek medical advice.

Most important symptoms/effects, acute and delayed

Not expected to cause adverse effects under normal handling of the solid pellet. Processing fumes may cause transient respiratory/eye irritation. See sections 2 and 11.

Indication of immediate medical attention and special treatment needed, if necessary

Not relevant; treat symptomatically if needed.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Suitable: Water spray, foam, dry chemical powder, carbon dioxide.
Unsuitable: High-pressure water jet may scatter burning material.

Specific hazards arising from the chemical

Combustible thermoplastic solid. Burns readily once ignited; molten/burning polymer can drip and spread fire. Combustion generates dense smoke, carbon monoxide, carbon dioxide and, depending on carrier resin/additive package, other irritant or toxic decomposition products.

Special protective actions for fire-fighters

Wear self-contained breathing apparatus and full fire-fighting protective clothing. Cool fire-exposed containers/storage with water spray from a safe distance. Avoid breathing smoke/fumes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel
Spilled pellets create a slip hazard – sweep up promptly. Avoid generating and inhaling dust if regrinding/pulverising. Use PPE per Section 8.

For emergency responders
No special measures beyond routine housekeeping/dust control PPE required.

Environmental precautions

Prevent pellets/dust from entering drains or watercourses; plastic pellets are a recognised source of environmental microplastic pollution if released to the environment – contain and recover spills.

Methods and materials for containment and cleaning up

Sweep or vacuum up spilled pellets/dust and place in a suitable labelled container for reuse (preferred, subject to quality control) or disposal.

Reference to other sections

See sections 8 and 13.

7. HANDLING AND STORAGE

Precautions for safe handling

A. General precautions for safe use
Handle in accordance with good manufacturing practice for plastics processing. Avoid generating and breathing dust during regrind operations. Provide adequate ventilation/fume extraction at processing equipment (extruders, moulding machines).

B. Technical recommendations for the prevention of fires and explosions
Keep away from open flames and hot surfaces above the product's processing temperature range. Control accumulation of fine dust in pneumatic conveying/regrinding systems; bond/earth equipment to control static electricity.

C. Technical recommendations on general occupational hygiene
Do not eat, drink or smoke during handling; wash hands after handling.

D. Technical recommendations to prevent environmental risks
Prevent pellets/dust from entering drains or the environment; use containment trays/bunding at handling and loading points.

Conditions for safe storage, including any incompatibilities

A. Specific storage requirements

Minimum Temp.	Ambient (protect from freezing/condensation causing caking)
Maximum Temp.	<40°C, away from direct sunlight and heat sources
Maximum time	12–24 Months (unopened original packaging, cool dry storage – consult product-specific technical data sheet)

B. General conditions for storage
Store in a cool, dry, well-ventilated place away from direct sunlight and heat sources, in tightly closed bags/containers, off the ground.

Specific end use(s)

Except for the instructions already specified, it is not necessary to provide any special recommendation regarding the uses of this product; refer to the product-specific technical data sheet for recommended let-down ratios and processing conditions.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

No substance-specific occupational exposure limit is notified for the product as a whole under the Factories Act, 1948. Control as a nuisance/inert dust in solid pellet form; where processing fume is generated, control per general workplace fume/particulate guidance:

Identification	Occupational Exposure Limit Type	Value
Product (as total dust/fume, general/particulates-not-otherwise-classified basis)	Time Weighted average concentration (8 hrs), total dust	10 mg/m³ (general nuisance dust guidance)
	Time Weighted average concentration (8 hrs), respirable fraction	3 mg/m³ (general nuisance dust guidance)

Appropriate engineering controls

Provide local exhaust ventilation/fume extraction at extrusion, moulding and regrind operations. Consult manufacturer's leaflet for storage, use, cleaning and maintenance of PPE.

B. Respiratory protection

Not normally required for handling of pellets. Use a particulate respirator during regrinding/dust-generating operations, and where fume extraction is inadequate at hot processing equipment.

C. Specific protection for the hands

Protective gloves recommended for prolonged handling; heat-resistant gloves for handling molten material.

D. Eye and face protection

Safety glasses recommended where dust is generated; face shield when handling molten/hot material.

E. Bodily protection

Standard work clothing; heat-resistant clothing/apron for molten-material handling.

F. Additional emergency measures

Eyewash station recommended in the work area.

Environmental exposure controls

Avoid environmental spillage of both the product and its container/packaging. See subsection 7.1.D.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	
Physical state at 20°C	Solid (pellets/granules)
Appearance	Cylindrical/spherical pellets
Color	Natural/translucent to slightly hazy (additive/carrier dependent)
Odor	Faint characteristic polymer odor, practically odourless
Odour threshold	Not relevant *
Volatility	
Boiling point at atmospheric pressure	Non-applicable (decomposes before boiling)
Vapour pressure at 20°C / 50°C	Not relevant *
Evaporation rate at 20°C	Not relevant *
Product Description	
Density at 20°C	Approx. 0.92–1.3 g/cm³ (additive-loading and carrier-resin dependent)
Dynamic / Kinematic viscosity	Non-applicable in solid state; melt viscosity grade/temperature dependent (available on request)
Concentration (active pigment/additive loading)	Available on request (grade dependent)
pH	Non-applicable (insoluble solid)
Vapour density at 20°C	Not relevant *
Partition coefficient n-octanol/water 20°C	Not applicable (solid polymer article)
Solubility in water at 20°C	Insoluble/practically insoluble
Decomposition temperature	Above normal processing range; thermal degradation may begin above approx. 250°C depending on carrier resin
Melting point/freezing point	Softens/melts in line with carrier resin, typically 105–170°C (PE/PP grade dependent)
Flammability	
Flash Point	Non-applicable (solid polymer article)
Flammability (solid, gas)	Combustible solid; burns when exposed to a sustained ignition source, in line with the base carrier resin
Autoignition temperature	Available on request (carrier resin dependent, typically >300°C)
Lower / Upper flammability limit	Not relevant for the solid pellet; fine dust from regrinding may be combustible *
Particle Characteristics	
Median equivalent diameter	Approx. 2–4 mm (standard pellet, grade dependent)

** Not relevant due to the nature of the product, not providing information on the properties of its hazards.*

Other information

Explosive properties	Not explosive; fine dust from regrinding may present a combustible dust hazard under specific conditions
Oxidising properties	Not oxidising
Corrosive to metals	Not corrosive to metals under normal conditions
Heat of combustion	Available on request (carrier resin dependent)
Surface tension at 20°C	Not relevant *
Refraction index	Not relevant *

10. STABILITY AND REACTIVITY

Reactivity

No hazardous reactivity expected under normal conditions of storage, handling and processing. Can react with strong oxidising agents at elevated temperature.

Chemical stability

Chemically stable under the indicated conditions of storage, handling and use; degrades on prolonged exposure to UV/sunlight and elevated temperature (properties depend on carrier resin and additive package).

Possibility of hazardous reactions

Under normal conditions, hazardous reactions are not expected. Overheating during processing (above recommended processing temperature) can cause thermal degradation and release of fumes.

Conditions to avoid

Shock/Friction	Contact with Air	Increase in Temperature	Sunlight	Humidity
Not applicable	Slow oxidative ageing on prolonged exposure	Avoid overheating beyond recommended processing range (risk of decomposition)	Prolonged UV exposure may affect colour/properties	Some grades hygroscopic – protect from moisture to avoid processing defects

Incompatible materials

Strong Oxidising Agents	Strong Acids/Bases	Incompatible Polymers (processing cross-contamination)
Risk of reaction at elevated temperature	Avoid contact	May affect finished-part properties; avoid mixing with incompatible resin systems

Hazardous decomposition products

On combustion or thermal decomposition above recommended processing temperature: carbon monoxide, carbon dioxide, smoke, and other decomposition products depending on carrier resin and additive package (e.g. aldehydes, ketones; halogenated fumes only if a halogenated additive is present – see product-specific technical data sheet).

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

The product as supplied (solid pellet with pigments/additives dispersed/encapsulated in the polymer matrix) is not expected to present a significant health hazard under normal handling. The functional additives used in commercial masterbatches of this type (e.g. hindered amine light stabilisers, phenolic/phosphite antioxidants, erucamide/oleamide slip agents, synthetic silica or talc anti-block agents) are established plastics-industry additives generally recognised as being of low acute toxicity at the use concentrations present in the finished masterbatch; the specific additive system used in a given grade is available on request.

A. Ingestion (acute effect)

Acute toxicity classification criteria are not met based on available data; the solid pellet is not readily ingested and is of low intrinsic toxicity.

B. Inhalation (acute effect)

Not classified for the solid pellet. Dust from regrinding, or fume from processing at excessive temperature, may cause respiratory irritation.

C. Contact with skin and eyes (acute effect)

Not classified as irritating based on available data for the solid pellet; molten material can cause thermal burns.

D. CMR effects (carcinogenicity, mutagenicity, reproductive toxicity)

Classification criteria for carcinogenicity, mutagenicity and reproductive toxicity are not met for the product as supplied based on available data.

E. Sensitizing effects

Classification criteria for respiratory or skin sensitisation are not met based on available data.

F. Specific target organ toxicity (STOT) – single exposure

Classification criteria are not met based on available data.

G. Specific target organ toxicity (STOT) – repeated exposure

Classification criteria are not met based on available data.

H. Aspiration hazard

Non-applicable (solid article, not a liquid).

Product-specific toxicological information

Identification	Acute Toxicity	Genus
Product (as supplied, solid pellet)	LD50 oral: Not applicable/not classified (solid article)	–
Individual pigment/additive components	Available on request	–

12. ECOLOGICAL INFORMATION

Not classified as hazardous to the aquatic environment based on available data for the product as supplied (insoluble solid). Plastic pellets/dust released to the environment can contribute to microplastic pollution – see 12.6.

Toxicity

Acute Toxicity	Species	Genus
LC50: Not applicable (insoluble solid article)	Non-applicable	Fish
EC50: Not applicable (insoluble solid article)	Non-applicable	Crustacean

Persistence and degradability

The carrier polymer resin is not readily biodegradable under normal environmental conditions.

Bioaccumulative potential

Not expected to bioaccumulate as the bulk solid; not established for individual proprietary pigment/additive components.

Mobility in soil

Koc	Henry	Dry Soil	Moist Soil
Not relevant (insoluble solid)	Not relevant	Low mobility (solid pellet)	Low mobility (solid pellet)

Results of PBT and vPvB assessment

Not assessed for the mixture as a whole; not expected to meet PBT/vPvB criteria for the bulk polymer matrix.

Other adverse effects

As with all plastic pellets/granules, avoid release to the environment – spilled pellets are a recognised contributor to environmental microplastic pollution if not recovered.

13. DISPOSAL CONSIDERATIONS

Disposal methods

Recover for reuse/recycling where possible (subject to quality requirements). Dispose of via a licensed waste contractor in accordance with local plastics/general waste regulations; do not release pellets or dust to the environment or drains.

Refer to national and local regulations on waste management.

14. TRANSPORT INFORMATION

Transport of dangerous goods by land (ADR 2023 / RID 2023)

14.1 UN number	Not assigned
14.2 UN proper shipping name	Non-hazardous for transport under ADR/RID
14.3 Transport hazard class(es)	Not classified
14.4 Packing group	N/A
14.5 Environmental hazard	No
14.6 Special precautions for user	Physico-chemical properties: see section 9
14.7 Transport in bulk (Annex II MARPOL 73/78, IBC Code)	Not relevant

Transport of dangerous goods by sea (IMDG 41-22)

14.1 UN number	Not assigned
14.2 UN proper shipping name	Non-hazardous for transport under IMDG
14.3 Transport hazard class(es)	Not classified
14.4 Packing group	N/A
14.5 Marine pollutant	No
14.6 Special precautions for user	Non-applicable
14.7 Transport in bulk (Annex II MARPOL 73/78, IBC Code)	Not relevant

Transport of dangerous goods by air (IATA/ICAO 2024)

14.1 UN number	Not assigned
14.2 UN proper shipping name	Non-hazardous for transport under IATA/ICAO
14.3 Transport hazard class(es)	Not classified
14.4 Packing group	N/A
14.5 Environmental hazard	No
14.6 Special precautions for user	Non-applicable
14.7 Transport in bulk (Annex II MARPOL 73/78, IBC Code)	Not relevant

15. REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product in question

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of local circumstances, in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation

The Factories Act, 1948 (Act No. 63 of 1948), as amended by the Factories (Amendment) Act, 1987 (Act 20 of 1987)
Plastic Waste Management Rules, 2016, as amended

16. OTHER INFORMATION

Legislation related to safety data sheets

This safety data sheet has been designed in accordance with Annex 4 – Guidance on the preparation of Safety Data Sheets of the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

Texts of the legislative phrases mentioned in sections 2 and 3

Not applicable – product as supplied is not classified as hazardous under GHS based on available data. Individual proprietary components may carry their own classification in concentrated/raw form; details available on request.

Advice related to training

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources

Publicly available GHS classification guidance for plastics/masterbatch compounds; product-specific technical data sheet (available on request).

Abbreviations and acronyms

ADR: European agreement concerning the international carriage of dangerous goods by road | IMDG: International maritime dangerous goods code | IATA: International Air Transport Association | ICAO: International Civil Aviation Organisation | LD50: Lethal Dose 50 | LC50: Lethal Concentration 50 | EC50: Effective Concentration 50 | PBT: Persistent, Bioaccumulative, Toxic | vPvB: very Persistent, very Bioaccumulative | PE: Polyethylene | PP: Polypropylene | EVA: Ethylene Vinyl Acetate

Disclaimer: The information contained in this safety data sheet is based on sources, technical knowledge and current legislation, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product; it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within Suraj Chemicals' awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

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