MHK Color

Safety Data Sheet (SDS)

GHS Format - Rev. 1.0 - October 2025

SECTION 1: Identification

Product Identifier	Special Effect Masterbatch
Product Code	MHK-SE-001
Relevant Identified Uses	Color and additive concentrate for plastic manufacturing
Manufacturer	MHK Color
Address	No.53 Baoying Road, Mingcheng Town, Gaoming District, Foshan City, Guangdong, China
Emergency Contact	info@mhkcolor.com / +86 13926115545

SECTION 2: Hazard(s) Identification

GHS Classification: Not classified as hazardous under GHS criteria

Label Elements: No GHS label elements required for standard grades.

Other Hazards: Dust may cause mechanical irritation to eyes and respiratory tract. Processing fumes may cause irritation.

SECTION 3: Composition/Information on Ingredients

Chemical Nature	Mixture of pigments/additives in polymer carrier resin
Main Components	Aluminum/Mica-TiO2/Silica/SrAl2O4:Eu (effect-specific) in Universal / PE / PP carrier resin
CAS Number	Mixture - see product label
Concentration	Active content: Effect pigment 10-30%

SECTION 4: First-Aid Measures

Inhalation	Move to fresh air. If symptoms persist, seek medical attention.
Skin Contact	Wash with soap and water. Remove contaminated clothing. If irritation develops, seek medical attention.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses if present. If irritation persists, seek medical attention.
Ingestion	Rinse mouth. Do NOT induce vomiting. Drink water. Seek medical attention if symptoms occur.
Notes to Physician	Treat symptomatically. No specific antidote known.

SECTION 5: Fire-Fighting Measures

Suitable Extinguishing Media: Water spray, dry chemical, foam, carbon dioxide.

Unsuitable: Direct water jet on molten material may cause splattering.

Specific Hazards: Combustion may produce carbon monoxide, carbon dioxide, and toxic fumes depending on pigment composition.

Protective Equipment: Self-contained breathing apparatus (SCBA) and full protective gear.

SECTION 6: Accidental Release Measures

Personal Precautions: Avoid dust generation. Wear appropriate PPE (gloves, goggles, dust mask).

Environmental Precautions: Prevent entry into drains, water courses, or soil.

Cleanup Methods: Sweep or vacuum spilled material. Place in suitable container for disposal. Avoid creating dust.

SECTION 7: Handling and Storage

Handling: Use with adequate ventilation. Avoid breathing dust/fumes. Avoid contact with skin and eyes. Wash hands before eating.

Storage: Store in cool, dry place. Avoid high humidity environments.

Incompatibilities: Strong oxidizing agents, strong acids, strong bases.

SECTION 8: Exposure Controls/Personal Protection

Occupational Exposure Limits	Particulates not otherwise classified (PNOC): 10 mg/m³ (inhalable), 3 mg/m³ (respirable)
Engineering Controls	Local exhaust ventilation at processing equipment. General dilution ventilation.
Respiratory Protection	Approved dust mask (N95/P2) if airborne concentrations exceed exposure limits.
Hand Protection	Chemical-resistant gloves (nitrile/neoprene) recommended.
Eye Protection	Safety glasses with side-shields or goggles.
Skin Protection	Long-sleeved work clothing. Wash contaminated clothing before reuse.

SECTION 9: Physical and Chemical Properties

Appearance	Metallic/pearlescent/matte colored pellets
Odor	Slight characteristic odor (or odorless)
pH	Not applicable (solid)
Melting Point	100-160°C (carrier resin dependent)
Boiling Point	Not applicable (decomposes)
Flash Point	> 200°C (carrier resin)
Density	1.10-1.40 g/cm³
Solubility in Water	Insoluble
Solubility in Organic Solvents	Partially soluble in some solvents

SECTION 10: Stability and Reactivity

Reactivity: Stable under normal conditions of use and storage.

Chemical Stability: Stable at ambient temperatures. Decomposes above 300°C.

Possibility of Hazardous Reactions: No dangerous reactions known under normal conditions.

Conditions to Avoid: Excessive heat (>300°C), open flames, strong oxidizers.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products: CO, CO■, smoke, low molecular weight hydrocarbons, pigment decomposition products.

SECTION 11: Toxicological Information

Acute Toxicity: Low acute toxicity. No data available for the mixture as a whole.

Skin Corrosion/Irritation: Not classified as skin irritant for standard grades. Desiccant grades may cause mild irritation.

Serious Eye Damage/Irritation: Dust may cause mechanical irritation.

Respiratory Sensitization: Not classified as a respiratory sensitizer.

Carcinogenicity: Carbon black (CAS 1333-86-4) is listed as IARC Group 2B (possibly carcinogenic). Titanium dioxide (CAS 13463-67-7) is listed as IARC Group 2B. Exposure under normal handling conditions is well below occupational exposure limits.

Reproductive Toxicity: No data available. Not expected to cause reproductive toxicity.

SECTION 12: Ecological Information

Toxicity: Insoluble in water. Low aquatic toxicity expected due to low solubility.

Persistence and Degradability: Not readily biodegradable. Polymer carrier persists in environment.

Bioaccumulative Potential: Low potential for bioaccumulation.

Mobility in Soil: Insoluble. Expected to remain in soil if released.

SECTION 13: Disposal Considerations

Dispose of in accordance with local, regional, and national regulations. Recycling of plastic material is preferred where facilities exist. Incineration in approved facility with energy recovery is recommended for non-recyclable waste. Avoid landfill disposal where possible.

SECTION 14: Transport Information

UN Number	Not regulated
UN Proper Shipping Name	Not applicable
Transport Hazard Class	Not regulated
Packing Group	Not applicable
Environmental Hazards	Not environmentally hazardous per transport regulations
Special Precautions	Protect from heat, moisture, and physical damage during transport

SECTION 15: Regulatory Information

China: Compliant with GB 9685 for food contact grades. Compliant with relevant chemical regulations.

EU: REACH compliant. SVHC substances reviewed and declared where applicable. CLP regulation applied.

USA: TSCA listed ingredients. FDA compliant grades available per 21 CFR.

Food Contact: Food contact grades available for selected effects

SECTION 16: Other Information

Revision Date: October 2025

Revision: 1.0 (Initial issue)

Abbreviations: GHS = Globally Harmonized System, IARC = International Agency for Research on Cancer, PNOC = Particulates Not Otherwise Classified, SCBA = Self-Contained Breathing Apparatus, SVHC = Substances of Very High Concern.

Disclaimer: The information in this Safety Data Sheet is provided in good faith and based on our current knowledge. It does not constitute a guarantee of product properties and does not establish a legally valid contractual relationship. Users should conduct their own assessment of suitability for their specific applications and comply with all applicable regulations.