



SAFETY DATA SHEET (SDS)

Section 1: Identification of the substance/preparation and of the company/undertaking

Product code: Y26032M

Product name: Yellow

Product form: Mixture

Other means of identification: Concentrate / Masterbatch

Application of the substance/mixture: Manufacture of plastic products, including compounding and converting.

Manufacturer: AmTopp

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Section 2 – Hazards identification

2.1 Hazard classification: This product is a mixture which has not been evaluated as a whole. All ingredients of this product are bound within polymer matrix and supplied in solid pellet format. Their potential for hazardous exposure as shipped is minimal. Information provided on the hazard classification of this product is based on individual components (see Section 11).

2.1.1 This product is not combustible in the form in which it is shipped. However, it contains polyethylene or polypropylene which is classified as combustible dust by OSHA (29CFR 1910.1200). If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.

2.1.2 All ingredients are bound within polymer matrix and supplied in solid pellet format. Their potential for hazardous exposure as shipped is minimal. However, this product contains titanium dioxide (CAS# 13463-67-7) which is listed as IARC Group 2B carcinogen (possibly carcinogenic to humans) by inhalation.

2.1.3 None of additives used in this product is OSHA/GHS classified hazard.

2.2 Label elements: None

2.3 Hazards not otherwise classified: No additional information available

2.4 Unknown acute toxicity: Not applicable

Section 3 – Composition / Information on ingredients

Component Chemical Name	CAS No.	Percent by Wt. (%)
Polyethylene	9002-88-7	25 - 35
Titanium dioxide	13463-67-7	< 45
Pigment(s)	*	< 20
Calcium carbonate	1317-65-3	< 15
Zinc stearate	557-05-1	< 2

** The specific chemical identity and/or their exact percentage have been withheld as a trade secret. The pigments are not OSHA or GHS classified hazards in the format of being shipped.*

Section 4: First-aid measures

4.1 Inhalation:

If inhaled, remove victim to fresh air. Administer oxygen if breathing is difficult. Get medical attention/advice if irritation or other symptoms develop.

4.2 Skin contact: If contact with the hot or molten product, cool rapidly with cold water. Do not peel solidified product off the skin. Get medical attention for thermal burn. Remove material from clothing. Wash clothing before reuse. Completely clean shoes before reuse.

4.3 Eye contact: If on eyes, immediately flush eye(s) with plenty of water. Remove contact lenses, if present and easy to do. Rinse again with plenty of water. Get medical assistance if irritation or other symptoms develop.

4.4 Ingestion: If swallowed, rinse mouth. DO NOT induce vomiting. Get medical attention. If victim is fully conscious, drink a cupful of water to dilute ingested material. Never give anything by mouth to an unconscious person.

4.5 Notes to physician: If thermal decomposition of fluoropolymer occurs releasing HF, additional first aid measures are required. HF decomposition by-product is extremely corrosive and can cause severe burns which may not be immediately visible or painful. Exposure to HF may be fatal if absorbed through skin, inhaled or swallowed.

Section 5: Fire-fighting measures

5.1 Suitable extinguishing media: Water spray, water fog, foam, CO₂, dry chemicals.

5.2 Unsuitable extinguishing media: Avoid high pressure, high volume water jet that may spread molten or burning pellets.

5.3 Specific hazards in case of fire: Fumes such as carbon monoxide (CO), carbon dioxide (CO₂), nitrogen oxides (NO_x), sulfur dioxide (SO₂), and/or hazardous organic compounds as well as metal fume can be released.

5.4 Special protective equipment and precautions: Wear full-face, self-contained, positive pressure or pressure demand breathing apparatus and thermal protective clothing. Avoid inhaling any smoke and combustion materials. Remove and clean/destroy any contaminated clothing.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 Personal precautions: Product is supplied as pellets which may create dangerous slippery hazards on a hard surface. Avoid breathing vapor. Avoid contact with skin, eye or clothing. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Wear appropriate personal protective equipment during all clean-up activities. Do not touch or walk through spilled material.

6.1.2 Protective equipment: In the event of fire, wear a NIOSH approved self-contained breathing apparatus (SCBA) and full protective clothing.

6.1.3 Emergency procedures: Keep all unauthorized personnel upwind away. Evacuate area of all unnecessary personnel. Eliminate all ignition sources. Ventilate the area. Clean up immediately. Avoid formation of dust which may form an explosive atmosphere when dispersed in air. Avoid generating static charge.

6.2 Environmental precautions: Prevent spilled material entry to sewage/drainage systems and waterway.

6.3 Methods and materials for containment and clean up: Sweep, scoop, or vacuum up spilled material using non-sparking tools. Place waste in an appropriate and properly labeled container for prompt disposal.

Section 7: Handling and storage

7.1 Precaution for safe handling:

7.1.1 Material is in a pellet form. If small particles are generated during further processing, handling, or by other means, may form combustible dust concentrations in air. The presence of an ignition source (flame, sparks, or static discharge) may ignite the dust and result in a dust explosion. Avoid creating dust in handling, transfer, or clean up. Use dust collection systems to avoid dust accumulation.

7.1.2 Electrostatic charges may build up during conveying or handling of this product. Take engineering measures (for example, ground the handling machine) to prevent the build-up of electrostatic charge and static discharge. Use only non-sparking tools when handling. The plastic packaging materials (for example, plastic liner) can also develop static electricity. Remove plastic liner in an area free from ignitable vapors/dust.

7.1.3 Wash hands thoroughly after handling. Do not eat, drink, or smoke when handling this product. Avoid breathing dust, fumes/vapors. Avoid material spillage and release to environment when handling. Handle in accordance with good industrial hygiene and safety practices including avoiding unnecessary exposure and removal of material from eyes, skin and clothing. Empty containers retain product residue. Improper disposal or reuse of this container may be dangerous and/or illegal.

7.2 Conditions for safe storage:

Store in closed, properly labeled containers. Keep containers in dry, cool and well-ventilated area. Keep containers away from heat, physical damage, ignition sources (such as flame, sparks and static electricity) and any incompatibilities. Storage room should meet OSHA standards and appropriate fire codes.

7.3 Additional information:

If you do not understand the hazards or safety precautions described in this safety data sheet, contact your supervisor or safety administrator before handling this product.

7.2 Conditions for safe storage:

7.2.1 Store material in closed, properly labeled containers.

7.2.2 Keep containers in dry, cool, and well-ventilated area.

7.2.3 Keep containers away from heat, physical damage, ignition sources (such as flame, sparks and static electricity) and any incompatibilities.

7.2.4 Storage room should meet OSHA standards and appropriate fire codes.

7.3 Additional information:

If you do not understand the hazards or safety precautions described in this safety data sheet, contact your supervisor or safety administrator before handling this product.



Section 8: Exposure controls/personal protection

8.1 Occupational exposure limits:

Components	Exposure form	Exposure limit	Standard
Polyethylene (PNOR: Particulate Not Other Regulated)	Respirable fraction	TWA: 5 mg/m ³ 8-hour	OSHA, PEL, Z1
	Total	TWA: 15 mg/m ³ 8-hour	OSHA, PEL, Z1
	Respirable particles	TWA: 3 mg/m ³ 8-hour	ACGIH, TLV
	Inhalable fraction	TWA: 10 mg/m ³ 8-hour	ACGIH, TLV
Titanium dioxide	Total dust	TWA: 15 mg/m ³ 8-hour	OSHA, PEL, Z1
		TWA: 10 mg/m ³ 8-hour	ACGIH, TLV
Calcium carbonate	Respirable fraction	TWA: 5 mg/m ³ 8-hour	OSHA, PEL, Z1
	Total	TWA: 15 mg/m ³ 8-hour	OSHA, PEL, Z1
Zinc stearate	Respirable fraction	TWA: 5 mg/m ³ 8-hour	OSHA, PEL, Z1
	Total dust	TWA: 15 mg/m ³ 8-hour	OSHA, PEL, Z1

8.2 Engineering controls: Provide exhaust ventilation as needed to minimize the airborne concentrate of dust/vapors. Take engineering measures to avoid creating dust in handling, transfer, or clean up. Use dust collection systems to avoid dust accumulation. Take engineering measures (for example, ground the handling machines/equipment) to prevent the build-up of electrostatic charge and static discharge.

8.3 Personal protective equipment:

8.3.1 Hand protection: Wear protective gloves

8.3.2 Eye protection: Wear safety glasses with side shields

8.3.3 Body protection: Wear protective clothing and safety shoes.

8.3.4 Respiratory protection: Wear positive pressure self-contained breathing apparatus (SCBA) in circumstance above occupational exposure standards for dust including emergency procedures and cleaning for accidental release.

Section 9: Physical and Chemical Properties

Appearance:	Pellets
Color:	Yellow
Odor:	Odorless to slightly characteristic odor
Odor threshold:	No data available
pH:	No data available
Melting point:	No data available
Boiling point:	No data available
Flash point:	No data available
Evaporation rate:	No data available
Flammability:	No data available
Low explosive limit:	No data available
Upper explosive limit:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Solubility:	Insoluble in water
Partition coefficient:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available

Section 10: Stability and Reactivity

10.1 Reactivity: No additional information available.

10.2 Chemical stability: Chemically stable at ambient, normal operating temperature and normal use conditions. Antistatic additive may migrate to the surface of pellets with the increase of storage time.

10.3 Possibility of hazardous reactions: Hazardous polymerization not likely to occur.

10.4 Conditions to avoid: Avoid high/shear temperature, excessive heat, sparks or open flame. Avoid creating airborne dust from processing, conveying, or handling this material. Electrostatic charges may be generated as a result of flow.

10.5 Incompatible materials: Strong oxidizers, organic solvents, ether, gasoline, lubricating oils.

10.6 Hazardous decomposition products: Fumes. Carbon monoxide (CO), Carbon dioxide (CO₂), nitrogen oxides (NO_x), sulfur dioxide (SO₂), hazardous organic compounds, metal fumes and oxides.

Section 11: Toxicological information

As a mixture, this product has not been evaluated as a whole for health effects. The following health effects data are based on existing health data and/or information on the individual components which comprise this product.

11.1 Inhalation: Inhalation of fines may cause irritation of respiratory system. Sign/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

11.2 Ingestion: Not an expected exposure route. If swallowed, may cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

11.3 Skin contact: Skin contact may cause skin irritation. Signs/symptoms may include abrasion, redness, pain and itching. Contact with hot or molten material may cause thermal burns. Signs/symptoms may include intense pain, redness, swelling, and tissue destruction.

11.4 Eye contact: Eye contact with fines may cause eye irritation. Signs/symptoms may include pain, redness, tearing, and corneal abrasion. Contact with hot or molten material may cause severe thermal burns. Signs/symptoms may include severe pain, redness, swelling, tissue destruction, and possible blindness.

11.5 Respiratory/skin sensitization: No data available

11.6 Specific target organ toxicity (single exposure): No data available

11.7 Specific target organ toxicity (repeated exposure): No data available

11.8 Carcinogenicity: All ingredients are bound within polymer matrix and supplied in solid pellet format. Their potential for hazardous exposure as shipped is minimal. However, as shown in Section 3, this product contains the following materials:

11.8.1 Titanium dioxide (TiO₂). IARC has classified TiO₂ as Group 2B carcinogen (possibly carcinogenic to humans) by inhalation.

11.9 Germ cell mutagenicity: No data available

11.10 Reproductive toxicity: No data available

11.11 Aspiration hazard: No data available

11.12 Acute toxicity: See below the table (11.14).

11.13 Chronic toxicity: No data available

11.14 Available toxicological data of pure individual ingredients: This product contains the following components which in their pure form may have the following toxicity:

11.14.1 Polyethylene (CAS#: 9002-88-7)

Health Effect	Route	Species	Data/Information
Acute toxicity	Inhalation	Mouse	LC50 = 12,000 mg/m ³ /30M
Acute toxicity	Oral	Rat	LD50 = 4,000 mg/kg

11.14.2 Titanium dioxide (CAS#: 13463-67-7)

Health Effect	Route	Species	Data/Information
Acute toxicity	Oral	Rat	LD50 > 5,000 mg/kg
Acute toxicity	Inhalation (4h)	Rat	LC50 > 6.82 mg/kg
Acute toxicity	Dermal	Rabbit	LD50 > 10,000 mg/kg

11.14.3 Calcium carbonate (CAS#: 1317-65-3)

Health Effect	Route	Species	Data/Information
Acute toxicity	Oral	Rat	LD50 > 5,000 mg/kg

Section 12: Ecological information

This product is a mixture which has not been evaluated as a whole for environmental effects. The following environmental effects data are based on existing health data and/or information on the individual components which comprise this product.

12.1 Aquatic toxicity:

12.1.1 Titanium dioxide (CAS#: 13463-67-7)

Health Effect	Species	Exposure Time	Data/Information
Toxicity to fish	Pimephales promelas (fathead minnow)	96 hours	LC50 > 1,000 mg/L
Toxicity to daphnia	Daphnia magna (water flea)	48 hours	EC50 > 1,000 mg/L
Toxicity to algae	Pseudokirchneriella subcapitata (green algae)	72 hours	EC50 > 100 mg/L

12.1.2 Calcium carbonate (CAS#: 1317-65-3)

Health Effect	Species	Exposure Time	Data/Information
Toxicity to fish	Oncorhynchus mykiss (Rainbow trout)	96 hours	LC50 > 10,000 mg/L
Toxicity to daphnia	Daphnia magna (water flea)	48 hours	EC50 > 1,000 mg/L
Toxicity to algae	Desmodesmus subspicatus (green algae)	72 hours	EC50 > 200 mg/L

12.2 Persistence and degradability: No data available. The carrier, polyethylene, of this product does not readily degrade. Calcium carbonate is not biodegradable either.



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12.3 Bioaccumulative potential: Pellets may accumulate in the digestive system of birds and aquatic life, causing injury and possible death due to starvation.

12.4 Mobility in soil: No data available. The carrier, polyethylene, of this product has not been found to migrate through soils.

12.5 Effect on ozone layer: No data available.

12.6 Other information: This product is difficultly biodegradable. This product contains zinc stearate which is unknown hazard to the aquatic environment. Avoid release to the environment.

Section 13: Disposal considerations

13.1 Waste disposal: Sweep up spilled product (pellets) and place in suitable labeled container for recycle or disposal in accordance with the local/regional/national/international regulations.

13.2 Contaminated packaging disposal: Empty Gaylord box and/or supersack may be recycled when possible.

The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with the local/regional/national/international regulations.

Section 14: Transport information

14.1 US Department of Transportation (DOT): Not regulated.

14.2 International Maritime Dangerous Goods Code (IMDG): Not regulated.

14.3 International Air Transport Association (IATA): Not regulated.

Section 15: Regulatory information

Please contact the address, phone number, or email listed on the first page of the SDS for regulatory information of this product.

Section 16: Other information

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