

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name Retro Industries Alkyd Thermoplastic Yellow

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified use(s) Road safety markings

1.3 Details of the supplier of the safety data sheet

Company Identification Retro Industries, LLC

PO Box 4368

Chattanooga, TN 37405

USA Telephone +1 423-443-8678

E-Mail (competent person) <u>mark@retroind.com</u>

1.4 Emergency telephone number

Emergency Phone No. Retro Industries, LLC +1 423-443-8678

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification Skin Sens. 1B

2.2 **Label elements** Hazard pictogram(s)

Signal word(s) Warning

Hazard statement(s) H317: May cause an allergic skin reaction.

Precautionary statement(s) P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P264: Wash (hands and exposed skin) thoroughly after handling.

P272: Contaminated work clothing should not be allowed out of the workplace.

P280: Wear protective gloves/protective clothing/eye protection/face

protection.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

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P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P363: Wash contaminated clothing before reuse.

2.3 Other hazards Molten material can cause severe burns.

SECTION 3: COMPOSITION/INFORMATION ON

Ingredient(s)	%W/W	CAS No.	EINECS No. / REACH	Hazard symbol(s) and
			Registration	hazard statement(s)
Calcium carbonate	35-60	1317-65-3	2152796	
Titanium dioxide	<5	13463-67-7	2366755	
Glass oxide; Glass	30-50	65997-17-3		
Proprietary Resin	10-20			
Yellow Pigment	<1.5			

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Eye Contact Irrigate with eyewash solution or clean water, holding the eyelids apart, for at

least 15 minutes. If symptoms persist, obtain medical attention.

Skin Contact Molten material can cause severe burns. Do NOT try to peel molten material

from the skin. Cool rapidly with water. If symptoms occur obtain medical

attention.

Inhalation In case of accident by inhalation: remove casualty to fresh air and keep at rest. If

symptoms develop, obtain medical attention.

Ingestion Get immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed

The molten form can cause thermal burns if in contact with skin or eyes.

Use appropriate Personal Protective Equipment (PPE). See Section: 8

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

the substance or mixture.

5.3 Advice for fire-fighters

Suitable Extinguishing Media Extinguish preferably with dry chemical, sand, foam or carbon dioxide.

Unsuitable extinguishing Media None known.

5.2 Special hazards arising from Avoid direct contact with water to avoid splattering of molten plastic

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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear suitable protective clothing. Wear eye/face protection.

6.2 Environmental precautions

Not applicable.

6.3 Methods and materials for containment and cleaning up

Carefully shovel or sweep up spilled material and place in suitable container.

6.4 Reference to other sections

Not applicable.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling Avoid contact with heated or molten product. Avoid contact with eyes, skin and

clothing. Wash thoroughly after handling. Wear protective equipment to comply with good occupational hygiene practice. Do not eat, drink or smoke at the work place. Avoid generation of dust. Dust at sufficient concentrations can form

explosive mixtures in air.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed and dry.

7.3 Specific end use(s) Minimize dust generation and accumulation.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

SUBSTANCE.	Occupational Exposure Limits	
Calcium carbonate	OSHA PEL TWA (Respirable): 5 mg/m3	
	OSHA PEL TWA (Total Dust: 15 mg/m3	
	NIOSH TWA (Total Dust): 10 mg/m3	
Titanium dioxide	xide OSHA PEL TWA (Total Dust: 15 mg/m3	
	NIOSH TWA (Total Dust): 10 mg/m3	

8.2 Exposure controls

8.2.1 Appropriate engineering

controls

Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and

local exhaust), and control of process conditions.

8.2.2 Personal ProtectionWear suitable respiratory protective equipment if working in confined spaces

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Respiratory protection with inadequate ventilation or where there is any risk of the exposure limits

being exceeded.

Eye/face protection Safety spectacles; Eye goggles covered with a face shield when handling molten

product.

Skin protection Wear suitable protective clothing and gloves. When dealing with heated

material: Wear insulating gloves EN407 (heat).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance Granular/Powdered. White.

Odor alkyd oil

Odor Threshold (ppm) Not applicable.

pH (Value) Not applicable.

Freezing Point (°C) Not applicable.

Melting Point (°C) 93

Boiling Point (°C) Not applicable.

Flash Point (°C) [Closed cup] >246

Evaporation rate Not applicable. Flammability (solid, gas) Non-combustible.

Vapor pressure (Pascal)

Vapor Density (Air=1) Not applicable. Insoluble. Solubility (Water) **Partition Coefficient** Not applicable. Auto Ignition Point (°C) Not applicable. Decomposition Temperature (°C) Not applicable. Viscosity (mPa. s) Not applicable. **Explosive properties** Not applicable. **Oxidizing Properties** Not applicable.

9.2 Other information Not available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity Stable under normal temperature conditions and recommended use.

10.2 Chemical stability Stable.

10.3 Possibility of hazardous Not applicable

reactions.

10.4 Conditions to avoid Avoid temperatures above 500°F

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10.5 Incompatible materials Acids, alum, ammonium salts, mercury, hydrogen, fluorine, magnesium

10.6 Hazardous decomposition

product(s)

Carbon monoxide, Carbon dioxide

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Ingestion Harmful by ingestion.

Inhalation Dusts and vapors or fumes evolved during thermal processing may cause

irritation to the respiratory system. May cause irritation to the respiratory

system.

Skin Contact Molten material will adhere to the skin causing deep thermal burns. Eye Contact The molten form can cause thermal burns if in contact with eyes.

Sensitization Resin compound may cause sensitization by skin contact. Mutagenicity No data

available on mixture.

Carcinogenicity No data. Reproductive toxicity No data.

STOT - single exposure

STOT - repeated exposure

Aspiration hazard

Other information

No data available on mixture.

No data available on mixture.

No data available on mixture.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity No data.

12.2 Persistence and No data.

degradability

12.3 Bioaccumulative potential No data available on mixture.

12.4 Mobility in soilNo data available on mixture.

12.5 Results of PBT and vPvBNot classified as PBT or vPvB

assessment.

12.6 Other adverse effects Not applicable

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods Disposal should be in accordance with local, state or national legislation.

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SECTION 14: TRANSPORT INFORMATION

14.2 Proper Shipping Name NOT CLASSED AS DANGEROUS FOR TRANSPORT.

14.3 Transport hazard class(es) Not applicable

14.4 Packing group Not applicable

14.5 Environmental hazards Not applicable

14.6 Special precautions for user Not applicable. Unsuitable containers: Aluminium

14.7 Transport in bulk according to Annex II of MARPOL73/78 and

the IBC Code

Not applicable

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture TSCA Inventory Status: Reported/Included.

SECTION 16: OTHER INFORMATION

This SDS was last reviewed: 01/2021

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