

SAFETY DATA SHEET



Section 1. Identification

Product identifier : BAYPLAST YELLOW 5GN 01/P
Material Number : 56307455
Chemical family : azo nickel complex pigment
Identified uses : Pigments.
Supplier/Manufacturer : LANXESS Corporation
Rhein Chemie Additives
111 RIDC Park West Drive
Pittsburgh, PA 15275-1112
USA

For information: US/Canada (800) LANXESS
International +1 412 809 1000


In case of emergency : Chemtrec (800) 424-9300
International (703) 527-3887
Lanxess Emergency Phone (800) 410-3063.

Section 2. Hazards identification

HAZCOM Standard Status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Physical state : Powder.
Color : Yellowish.

Classification of the substance or mixture : COMBUSTIBLE DUSTS
CARCINOGENICITY - Category 1A
Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 1.8%

Hazard pictograms : 

Signal word : Danger

Hazard statements : May form combustible dust concentrations in air. May cause cancer.
Hazard Not Otherwise Classified (HNOC) : None known.

Precautionary statements

Prevention : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.

Response : IF exposed or concerned: Get medical attention.

Storage : Store locked up.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements : Keep container tightly closed. Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Prevent dust accumulation. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. COMBUSTIBLE DUSTS

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
C. I. Pigment Yellow 150	25 - 50	68511-62-6

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. If not breathing, if breathing is irregular or respiratory arrest occurs, provide artificial respiration, or oxygen by a trained professional, using a pocket type respirator.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Potential acute health effects

- Eye contact** : May cause mechanical irritation (abrasion).
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : May cause mechanical irritation (abrasion).
- Ingestion** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : No specific data.
- Ingestion** : No specific data.

Potential chronic health effects

Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. May cause cancer.

Notes to physician : Treat symptomatically. No specific treatment.

Protection of first-aiders : No special measures required.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use dry chemical powder.

Unsuitable extinguishing media : Do not use water jet.

Specific hazards arising from the chemical : Fine dust clouds may form explosive mixtures with air.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up : Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. Remove mechanically by a method that minimizes the generation of airborne dust (vacuum cleaner, wet mopping, etc.) Ensure vacuum cleaners are approved for explosible dusts. Prevent entry into sewers, water courses, basements or confined areas.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container. Remove contaminated clothing and protective equipment before entering eating areas. Workers should wash hands and face before eating, drinking and smoking. Put on

Section 7. Handling and storage

appropriate personal protection equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Use non-sparking tools and equipment. Consult National Fire Protection Association (NFPA) 654 Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids for details on the safe handling and equipment design.

Conditions for safe storage : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Empty containers retain product residue and can be hazardous. Do not reuse container. Minimize dust generation and accumulation, especially on elevated surfaces (e.g., roof beams and trusses, ventilation ducts, wall sills). A dust layer just 1/32nd of an inch(0.793 mm) deep on elevated surfaces may create a dust cloud explosion hazard.

Section 8. Exposure controls/personal protection

Occupational exposure limits

Ingredient name	Exposure limits
C. I. Pigment Yellow 150	OSHA PEL (United States, 2/2013). TWA: 1 mg/m ³ , (as Ni) 8 hours.

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Appropriate engineering controls : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Personal protection

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection : The following respirator is recommended if airborne concentrations exceed the appropriate standard/guideline. NIOSH approved, air-purifying particulate respirator with N-95 filters.

Skin protection : Wear cloth work clothing including long pants and long-sleeved shirts. Suitable protective footwear.

Eye/face protection : safety glasses with side-shields

Medical Surveillance : Not available.

Section 9. Physical and chemical properties

Physical state : Solid. [powder]

Color : Yellowish.

Odor : Odorless.

Odor threshold : Not available.

pH : Not available.

Section 9. Physical and chemical properties

Boiling point	: Not available.
Melting point	: Not available.
Flash point	: Not available.
Evaporation rate	: Not available.
Explosion limits	: Not available.
Risk of dust explosion	: Dust explosion test in the modified Hartmann tube:capable of causing a dust explosion
Vapor pressure	: Not available.
Density	: 1.6 g/cm ³
Specific gravity (Relative density)	: Not available.
Bulk density	: 380 to 420 kg/m ³
Solubility	: Insoluble in the following materials: cold water
Partition coefficient: n-octanol/water	: Not available.
Vapor density	: Not available.
Viscosity	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: 230°C

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Prevent dust accumulation.
Incompatible materials	: Oxidizing agents
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on the likely routes of exposure : Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Eye contact	: May cause mechanical irritation (abrasion).
Inhalation	: No known significant effects or critical hazards.
Skin contact	: May cause mechanical irritation (abrasion).
Ingestion	: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.

Potential chronic health effects

Short term exposure

Potential immediate effects	: Not available.
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Section 11. Toxicological information

Long term exposure

- Potential delayed effects** : Not available.
- General** : Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. May cause cancer.
- Carcinogenicity** : May cause cancer. Risk of cancer depends on duration and level of exposure. This product contains a nickel compound. NTP and IARC have classified nickel and certain nickel compounds as carcinogens from sufficient evidence in experimental animals. The insoluble nickel compound in this product was not evaluated or classified for carcinogenicity by NTP or IARC.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure	Test
Bayplast Yellow 5GN 01/P	LD50 Oral	Rat	>5000 mg/kg	-	OECD 401 Acute Oral Toxicity
Bayplast Yellow 5GN 01/P	LC50 Inhalation Dusts and mists	Rat	>5222 mg/m ³	4 hours	OECD 403 Acute Inhalation Toxicity

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation	Reversibility
Bayplast Yellow 5GN 01/P	Skin - Erythema/Eschar	Rabbit	0	-	-	-
	Skin - Edema	Rabbit	0	-	-	-
	Eyes - Cornea opacity	Rabbit	0	-	-	-
	Eyes - Iris lesion	Rabbit	0	-	-	-
	Eyes - Redness of the conjunctivae	Rabbit	0.55	-	-	Fully reversible in more than 7 days
	Eyes - Edema of the conjunctivae	Rabbit	0	-	-	-

Conclusion/Summary

- Skin** : Non-irritating
- Eyes** : Non-irritating

Sensitization

Product/ingredient name	Route of exposure	Species	Result
Bayplast Yellow 5GN 01/P	skin	Mouse	Not sensitizing

Chronic toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Bayplast Yellow 5GN 01/P	Sub-acute NOAEL Oral	Rat	>1000 mg/kg bw/day	28 days; daily

Mutagenicity

Section 11. Toxicological information

Product/ingredient name	Test	Experiment	Result
Bayplast Yellow 5GN 01/P	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria Metabolic activation: +/- Experiment: In vitro	Negative
	OECD 476 <i>In vitro</i> Mammalian Cell Gene Mutation Test	Subject: Bacteria Metabolic activation: +/- Experiment: In vitro	Negative
	Chromosomal aberration assay	Subject: Mammalian-Animal Cell: Somatic Metabolic activation: +/- Experiment: In vivo	Negative

Carcinogenicity

Conclusion/Summary : This product contains a nickel compound. NTP and IARC have classified nickel and certain nickel compounds as carcinogens based on evidence in experimental animals. IARC states 'this applies to the group of chemicals as a whole and not necessarily to all individual chemicals within the group'. The insoluble nickel compound in this product was not evaluated or classified for carcinogenicity by NTP or IARC.

Product/ingredient name	CAS #	IARC	NTP	OSHA
C. I. Pigment Yellow 150	68511-62-6	1 Carcinogenic to humans	Proven.	Not classified.

Reproductive toxicity

Product/ingredient name	Effects	Species	Dose	Exposure
Bayplast Yellow 5GN 01/P		Rat	Oral: >1000 mg/ kg bw/day	-

Acute toxicity estimates

Route	ATE value (Acute Toxicity Estimates)
Not available.	

Section 12. Ecological information

Toxicity

Product/ingredient name	Test	Result	Species	Exposure
Bayplast Yellow 5GN 01/P	EU EU C.3	NOEC >100 mg/l	Algae - Desmodesmus subspicatus	72 hours
	EU EU C.11 (Biodegradation: Activated Sludge Respiration Inhibition Test)	Acute EC50 3150 mg/l	Bacteria - Activated sludge	3 hours
	EU EU C.3	Acute IC50 >100 mg/l	Algae - Desmodesmus subspicatus	72 hours
	EU EC C.2	Acute LC50 >100 mg/l	Daphnia - Danio rerio	48 hours
	EU EU C.1	Acute LC50 >1000 mg/l	Fish - Danio rerio	96 hours

Conclusion/Summary : Not available.

Persistence and degradability

Section 12. Ecological information

Product/ingredient name	Test	Result	Dose	Inoculum
C. I. Pigment Yellow 150	OECD 301F Ready Biodegradability - Manometric Respirometry Test / EU C.4-D (Determination of the "Ready" Biodegradability - Manometric Respirometry Test)	0 % - Not readily - 28 days	-	-
Bayplast Yellow 5GN 01/P	OECD 301F Ready Biodegradability - Manometric Respirometry Test / EU C.4-D (Determination of the "Ready" Biodegradability - Manometric Respirometry Test)	0 % - Not readily - 28 days	-	-

Conclusion/Summary : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Bayplast Yellow 5GN 01/P	-	-	Not readily
C. I. Pigment Yellow 150	-	-	Not readily

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Waste disposal should be in accordance with existing federal state, provincial and or local environmental controls laws.

RCRA classification : : If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	-	-	-	-		Not regulated.
IMDG Class	-	-	-	-		Not regulated.
IATA-DGR Class	-	-	-	-		Not regulated.

PG* : Packing group

RQ : 0 lbs

Section 15. Regulatory information

SARA 311/312 : Fire hazard
Delayed (chronic) health hazard

SARA Title III Section 302 : None
Extremely Hazardous
Substances

	<u>Ingredient name</u>	<u>CAS number</u>	<u>Concentration (%)</u>
SARA Title III Section 313 Toxic Chemicals	: C. I. Pigment Yellow 150	68511-62-6	40 - 46%

	<u>Ingredient name</u>	<u>CAS number</u>	<u>RQ</u>
US EPA CERCLA Hazardous Substances (40 CFR 302.4)	: C. I. Pigment Yellow 150	68511-62-6	Included in the regulation but with no data values. See regulation for further details.

State regulations

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections on the SDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

<u>Ingredient name</u>	<u>CAS number</u>	<u>State Code</u>	<u>Concentration (%)</u>
Melamine	108-78-1	MA - S, NJ - HS, PA - RTK HS	28 - 34%
C. I. Pigment Yellow 150	68511-62-6	NJ - HS, PA - RTK HS	40 - 46%
Acid.	Trade secret.		15 - 21%
Water	7732-18-5		3 - 5%
Processing aid	Trade secret.		3 - 5%

Massachusetts Substances: MA - S

Massachusetts Extraordinary Hazardous Substances: MA - Extra HS

New Jersey Hazardous Substances: NJ - HS

Pennsylvania RTK Hazardous Substances: PA - RTK HS

Pennsylvania Special Hazardous Substances: PA - Special HS

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

<u>Ingredient name</u>	<u>CAS #</u>	<u>Concentration (%)</u>	<u>Cancer</u>	<u>Reproductive</u>
C. I. Pigment Yellow 150	68511-62-6	40 - 46%	Yes	

U.S. Toxic Substances : Listed on the TSCA Inventory.
Control Act

Section 16. Other information

Hazardous Material Information System :

Health	*	1
Flammability		1
Physical hazards		0

0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme
 *=Chronic

The customer is responsible for determining the PPE code for this material. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

National Fire Protection Association (U.S.A.) :



0= Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

LANXESS' method of hazard communication is comprised of Product Labels and Safety Data Sheets. HMIS and NFPA ratings are provided by LANXESS as a customer service.

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Product Safety and Regulatory Affairs

☑ Indicates information that has changed from previously issued version.

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