



Basic Yellow 40 Powder MSDS

Effective Date: January 16, 2013

24 Hour Emergency Contact:

ChemTel: (800)255-3924

www.pioneerforensics.com

1. PRODUCT AND COMPANY IDENTIFICATION

Product: Basic Yellow 40 Powder (300% and 680%)
Product Number(s): PF013, PF014
CAS#: 29556-33-0
Synonyms: Coumarin 40
Manufacturer: Pioneer Forensics, LLC
804 E. Eisenhower Blvd.
Loveland, CO 80537
Ph: (970) 292-8487
Emergency Number: (800) 255-3924 (CHEM-TEL)
Customer Service: (970) 292-8487

2. HAZARDS IDENTIFICATION

Emergency Overview: MAY CAUSE IRRITATION TO SKIN, EYES, RESPIRATORY TRACT, AND/OR GASTROINTESTINAL TRACT. MAY BE HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN.

Safety Ratings: Health: 2, Moderate Reactivity: 0, None
Flammability: 1, Slight Contact: 2, Moderate

OSHA Regulatory Status: This product is considered a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Potential Acute Health Effects:

Routes of Exposure: Inhalation, ingestion, skin contact, eye contact

Inhalation: May be harmful if inhaled. May cause irritation to the respiratory tract and mucus membranes.

Ingestion: May be harmful if swallowed. May cause irritation of the gastrointestinal tract.

Skin Contact: May be harmful if absorbed through skin. May cause skin irritation.

Eye Contact: May cause eye irritation.

Target Organs: Skin, eyes

Chronic Health Effects: No information found

Potential Environmental Effects:

This product is not expected to be harmful to the environment.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

<u>Components</u>	<u>CAS#</u>	<u>Chemical Formula</u>	<u>Formula Weight</u>	<u>Hazardous</u>	<u>% by Weight</u>
Basic Yellow 40	29556-33-0	C ₂₂ H ₂₄ N ₃ O ₂ Cl	397.5	Yes	60-100

4. FIRST AID MEASURES

First Aid Procedures:

- Inhalation:** Remove to fresh air. If breathing is difficult, administer oxygen. If the victim is not breathing, provide artificial respiration. Get medical attention if symptoms persist.
- Ingestion:** If swallowed, give several glasses of water to drink. Never give anything by mouth to an unconscious person. Get medical attention.
- Skin Contact:** In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation persists.
- Eye Contact:** Check for and remove contact lenses. Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention if irritation persists.

General Advice: Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

Notes to Physician: Treat symptomatically

5. FIRE FIGHTING MEASURES

NFPA Ratings: Health: 2 Flammability: 1 Reactivity: 0

Flammable Properties: May be combustible at high temperatures.

Flash Point: No information found

Auto-ignition Temp: No information found

Flammable Limits in Air (% by volume): No information found

Suitable Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media: No information found

Hazardous Combustion Products: Carbon oxides, nitrogen oxides, halogenated compounds

Specific Hazards: No information found

Special Protective Equipment As in any fire, wear MSHA/NIOSH approved (or equivalent) self-contained positive pressure

For Firefighters: or pressure-demand breathing apparatus and full protective gear.

Specific Methods: No information found

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Remove all sources of ignition. Ventilate area of leak or spill. Keep unnecessary and unprotected personnel away. Wear appropriate personal protective equipment as specified in the Exposure Control and Personal Protection Section 8. Avoid contact with eyes, skin, and clothing. Use non-sparking tools and equipment.

Environmental Precautions: Prevent further leakage or spillage if safe to do so.

Methods for Containment: Prevent entry into waterways, sewer, basements or confined areas. Reduce airborne dust and prevent scattering by moistening with water.

Methods for Cleaning Up: Clean up spills in a manner that does not disperse dust into the air. Pick up spill for recovery or disposal and place in a suitable container for reclamation or disposal. Clean contaminated surface thoroughly. Never return spills in original containers for re-use. Clean up in accordance with all applicable regulations.

7. HANDLING AND STORAGE

Handling: Wear personal protective equipment (see section 8). Avoid contact with skin, eyes and clothing. Do not ingest or inhale. Ensure adequate ventilation. Keep away from heat, sparks, flame, and sources of ignition. Wash thoroughly after handling.

Storage: Store in a cool, dry, ventilated area. Keep containers tightly closed and upright. Separate from incompatibilities. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Exposure Limits: No information found

Engineering Controls: In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels to an acceptable level.

Personal Protective Equipment:

Eye/Face Protection: Wear safety goggles or glasses and face shield.

Skin Protection: Wear protective gloves and appropriate clothing to prevent skin contact.

Respiratory Protection: Not expected to require the use of a respirator, however, if engineering controls do not maintain airborne concentrations to an acceptable level, an approved/certified dust respirator should be worn.

General Hygiene Considerations: Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid
Appearance:	Fluorescent crystalline powder
Color:	Yellow
Odor:	Odorless
Molecular Formula:	C ₂₂ H ₂₄ N ₃ O ₂ Cl
Molecular Weight:	397.5
pH:	No information found
Specific Gravity:	No information found
Freezing/Melting Point:	No information found
Boiling Point:	No information found
Flash Point:	No information found
Auto Ignition Temperature:	No information found
Flammable Limits in Air (% by Volume):	No information found
Solubility:	No information found
Vapor Pressure:	No information found
Vapor Density:	No information found
Percent Volatile:	No information found
Odor threshold (ppm):	No information found
Evaporation Rate:	No information found
Partition Coefficient (n-octanol/water):	No information found

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	Heat, flames, sparks, incompatibles
Incompatible Materials:	Strong oxidizers
Hazardous Decomposition Products:	Carbon oxides, nitrogen oxides, hydrogen chloride gas, halogenated compounds
Possibility of Hazardous Reactions:	Hazardous reactions are not expected to occur with this product.
Hazardous Polymerization:	Will not occur.

11. TOXICOLOGICAL INFORMATION

To the best of our knowledge, the complete toxicological properties of this product have not been fully investigated.

Toxicological Data:	No information found
Acute Effects:	May be harmful if swallowed, inhaled, or absorbed through skin.
Local Effects:	May cause mild eye, skin, or respiratory system irritation.
Sensitization:	No information found
Chronic Effects:	No information found
Carcinogenic Effects:	No information found

Skin Corrosion/Irritation: May cause mild skin irritation.

Epidemiology: No epidemiological data is available for this product.

Mutagenicity: No information found

Neurological Effects: No information found

Reproductive Effects: No information found

Teratogenic Effects: No information found

Target Organs and Symptoms: Irritant effects. Mucus membranes.

12. ECOLOGICAL INFORMATION

Ecotoxicological Data: No information found

Ecotoxicity: This product has no known eco-toxicological effects.

Environmental Effects: This product is not expected to be harmful to the environment.

Aquatic Toxicity: This material is not expected to be harmful to aquatic life.

Persistence and Degradability: No information found

Partition Coefficient (n-octanol/water): No information found

13. DISPOSAL INFORMATION

Disposal Instructions: Dispose of this material and its container in accordance with local, state and federal regulations.

Contaminated Packaging: Offer rinsed packaging material to local recycling facilities. Since emptied containers retain product residue, follow label warnings even after container is emptied.

Waste Codes: No information found

14. TRANSPORT INFORMATION

DOT: Not regulated

15. REGULATORY INFORMATION

U.S. Federal Regulations:

OSHA: This product is considered a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Inventory: Basic Yellow 40

U.S. EPCRA (SARA Title III):

Sections 311/312:	<u>Hazard Categories</u>	<u>List (Yes/No)</u>
	Section 311 – Hazardous Chemical	Yes
	Immediate Hazard	Yes
	Delayed Hazard	Yes
	Fire Hazard	No
	Pressure Hazard	No
	Reactivity Hazard	No

International Inventories:	<u>Country(s) or Region</u>	<u>Inventory Name</u>	<u>On Inventory (Yes/No)*</u>
	Australia	Australian Inventory of Chemical Substances (AICS)	Yes
	Canada	Domestic Substances List (DSL)	No
	Canada	Non-Domestic Substances List (NDSL)	No
	China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
	Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
	Europe	European List of Notified Chemical Substances (ELINCS)	No
	Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
	Korea	Existing Chemicals List (ECL)	No
	New Zealand	New Zealand Inventory	N/A
	Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

*A "Yes" indicates that the listed component(s) of this product comply with the inventory requirements administered by the governing country(s)

16. OTHER INFORMATION

Product Use: Laboratory and/or field reagent

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Reason for Revision: Not applicable