SAFETY DATA SHEET



Preparation Date March 2, 2016

Revision Date May 11, 2017

Revision Number 2

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Identifier

Product Name Basic Yellow 40 Powder

Other means of identification

PF15013 **Product Code CAS Number** 29556-33-0 Formula $C_{22}H_{24}N_3O_2CI$ **Synonyms** 1H-Benzimidazolium,

2-(7-(Diethylamino)-2-Oxo-2H-1-Benzopyran-3-YI)-1,3-Dimethyl-Chloride;

Coumarin 40; C.I. Basic Yellow 40

Recommended use of the chemical and restrictions on use

Recommended Use For manufacturing, industrial, and laboratory use only.

Uses advised against Not for food, drug, or household use.

Details of the supplier of the safety data sheet

Pioneer Forensics, LLC **Supplier**

6801 West 20th Street, Suite 204

Greeley, CO 80634 Phone: (970) 515-5420

Emergency Telephone Number(s)

For health emergency, call poison control: (800) 222-1222.

2. HAZARDS IDENTIFICATION

Classification

Acute Toxicity - Oral	Category 4
Serious eye damage/eye irritation	Category 2

Label elements

Emergency Overview

Signal Word Warning

Hazard statements

Harmful if swallowed Causes serious eye irritation



AppearancePhysical StateOdorFluorescent Yellow PowderSolidNo information available

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Wear eye/face protection

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None known

Other Information

100 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms 1H-Benzimidazolium, 2-(7-(Diethylamino)-2-Oxo-2H-1-Benzopyran-3-YI)-1,3-Dimethyl-,

Chloride; Coumarin 40; C.I. Basic Yellow 40

Formula C22H24N3O2.Cl

Chemical Name	CAS-No	Weight %	North American Hazard Indicator
Basic Yellow 40	29556-33-0	100	False

4. FIRST AID MEASURES

First Aid Measures

General Advice Show this safety data sheet to the doctor in attendance.

Eye ContactRinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Consult a physician.

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes. Consult a physician.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Consult a physician.

Ingestion Rinse mouth. Never give anything by mouth to an unconscious person. Consult a physician.

Most important symptoms and effects, both acute and delayed

Main Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Unsuitable Extinguishing Media No information available.

Hazardous Combustion Products

Thermal decomposition or combustion may produce hazardous

gases and/or materials.

Explosion Data

Sensitivity to mechanical impact Not available.

Sensitivity to static discharge Not available.

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective

equipment. Avoid contact with skin, eyes and clothing. In case of insufficient ventilation,

wear suitable respiratory equipment.

Environmental Precautions Local authorities should be advised if significant spillages cannot be contained.

Methods and material for containment and cleaning up

Evacuate personnel to safe areas. Sweep up and shovel into suitable containers for Methods for Cleaning up

disposal. Avoid dust formation. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Handling Use only in an area equipped with a safety shower. Ensure adequate ventilation. Do not

breathe vapours/dust. Avoid contact with skin, eyes and clothing. Avoid repeated exposure.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly

labelled containers.

Incompatible Materials No information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

This product does not contain any hazardous materials with occupational exposure limits **Exposure Guidelines**

established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Basic Yellow 40	-	-	-
29556-33-0			

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. **Engineering Controls**

Individual protection measures, such as personal protective equipment

Eye/face Protection Tightly fitting safety goggles.

Impervious gloves. Gloves must be inspected prior to use. Use proper glove removal Skin and body protection

technique (without touching the glove's outer surface) to avoid skin contact with this product. The type of protective equipment must be selected according to the concentration

and amount of dangerous substance at the specific workplace.

Respiratory Protection In case of insufficient ventilation, wear suitable respiratory equipment.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Fluorescent Yellow Powder **Appearance**

Physical State Solid

Odor No information available **Odor Threshold** No information available

Property Values Remarks • Method

No data available pН

Melting/freezing point No data available Literary Reference **Boiling Point/Range** No information available

Flash Point No data available No information available

Evaporation Rate Not available

Flammability Limits in Air

upper flammability limit No information available

lower flammability limit Not available

Vapor Pressure No information available

Vapor Density Not available

Specific Gravity No information available

Water Solubility

Solubility in other solvents No information available

Partition coefficient: n-octanol/waterNot available
Autoignition temp (°C)
No data available

Decomposition temperature

No data available

Viscosity, kinematic

No data available

No information available

Viscosity, dynamic Not available

Explosive Properties No information available Oxidizing Properties No information available

Other Information

Softening Point
Molecular Weight
VOC Content
Density
No information available

10. STABILITY AND REACTIVITY

Reactivity Not applicable.

Chemical Stability Stable under recommended storage conditions

Conditions to Avoid Heat, flames and sparks.

Incompatible Materials No information available.

Hazardous Decomposition Products Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides (NOx).

Hydrogen chloride gas.

Estimated

Possibility of Hazardous Reactions

None under normal processing

11. TOXICOLOGICAL INFORMATION

Product Information To the best of our knowledge, the complete toxicological properties have not been

thoroughly investigated.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation		
Basic Yellow 40	-	-	-		
29556-33-0					

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 500 mg/kg

Information on likely routes of exposure

Eyes Contact with eyes may cause irritation. Avoid contact with eyes.

Skin Substance may cause slight skin irritation. Avoid contact with skin.

Inhalation May cause irritation of the mucous membranes. May cause irritation of respiratory tract.

Ingestion May be harmful if swallowed.

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Eye damage/irritation No information available.

Skin Corrosion/Irritation No information available.

Sensitization No information available.

Reproductive Effects No information available.

Mutagenic Effects No information available.

Developmental EffectsNo information available.

STOT - single exposure No information available.

STOT - Repeated Exposure No information available.

Chronic Toxicity Avoid repeated exposure.

Aspiration Hazard No information available.

Numerical measures of toxicity - Product Information

Acute Toxicity 100 % of the mixture consists of ingredient(s) of unknown toxicity

12. ECOLOGICAL INFORMATION

Ecotoxicity

There is no known ecological information for this product.

100 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Persistence / Degradability

No information available.

Bioaccumulation / Accumulation No information available.

Mobility in Soil No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Method Contact waste disposal services. Dispose of in accordance with local regulations.

Contaminated Packaging Dispose of in accordance with local regulations. Empty containers should be taken for local

recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

MEX Not regulated

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

RID Not regulated

ADR Not regulated

ADN Not regulated

15. REGULATORY INFORMATION

International Inventories

U.S.A. (TSCA) Complies Canada (DSL) Does not Comply **EU (EINECS)** Complies **EU (ELINCS)** Does not Comply Does not Comply Japan (ENCS) China Complies Does not Comply Korea (KECL) Philippines (PICCS) Complies

Complies

Chemical Name	U.S.A. (TSCA)	Canada (I	DSL)	EU	(EINECS)		EU (ELINCS)
Basic Yellow 40	Present	=		F	Present		•
Chemical Name	Japan (ENCS)	China	Korea	(KECL)	Philippines (PIC	CCS)	Australia (AICS)
Basic Yellow 40	-	Present		-	Present		Present

Federal Regulations

Australia (AICS)

CADA 242

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

State Right-to-Know

This product does not contain any State Right-to-Know chemicals.

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

Canada

WHMIS Statement

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

16. OTHER INFORMATION

NEDA

NFPA Health 2

Flammability 0

Instability 0

Physical Hazard 0



Preparation Date Revision Date Revision Summary March 2, 2016 May 11, 2017 Update of Section 1 over 03/02/2016 version.

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process unless specified in the text.

End of SDS