



Product Safety Datasheet

BASF

Name of product THERMOPLAST® F Yellow 084
C.I. No. / Name 59 075 / C.I. Solvent Green 5
CAS No. / EINECS No. 2744-50-5 / 220-379-8

Name of product THERMOPLAST® Yellow 104
C.I. No. / Name 48 160 / Solvent Yellow 93
CAS No. / EINECS No. 4702-90-3 / 225-184-1

Name of product THERMOPLAST® Red 454
C.I. No. / Name -*) / C.I. Solvent Red 195
CAS No. / EINECS No. -*) / -*)

Name of product THERMOPLAST® Blue 684
C.I. No. / Name 60 725 / C.I. Solvent Violet 13
CAS No. / EINECS No. 81-48-1 / 201-353-5

Name of product THERMOPLAST® Black X70
C.I. No. / Name Mixture
CAS No. / EINECS No. Mixture

*) The Colour Index, CAS Nos. and EINECS Nos. are not yet available.

Chemical nature These dyes are free of extenders and soluble in plastics. They belong to different classes of chemical compounds. THERMOPLAST® F Yellow 084 is the isobutyl ester of perylene-3,9-dicarboxylic acid, Yellow 104, known as pyrazolone yellow, consists of two pyrazolone rings connected by a methine bridge. Red 454 is a monoazo compound and Blue 684 is a substituted 1-hydroxy-4-aminoanthraquinone. Black X70 is a mixture of compounds.

Toxicology In experiments on animals, THERMOPLAST® dyes did not display acute toxicity. No acute irritant effect was shown in tests to determine the acute irritation of the skin and mucous membranes.

Ecology Because they are chemically inert and practically insoluble in water, dyes are not environmentally hazardous. The dyes are insoluble in water. They can be removed from waste water by mechanical means.

Labelling The above listed products are not dangerous substances in the sense of the German Ordinance on Dangerous Substances or of corresponding EU regulations.

Classification as dangerous goods The products are not classified as hazardous under transport regulations.

TA Luft Para 3.1.3 - Total dust (Germany)

MATERIAL SAFETY DATA SHEET

MSDS Name: AX-18-N SIGNAL GREEN PIGMENT

Revision Date: 01/11/10
Page Number: 1 of 6

SECTION I - PRODUCT AND COMPANY INFORMATION

Product Name: AX-18-N SIGNAL GREEN PIGMENT
CAS Number: MIXTURE
HMIS Rating: Health: 1 Fire: 1 Reactivity: 0

Company Identification: DAY-GLO COLOR CORP.
4515 SAINT CLAIR AVENUE
CLEVELAND OH 44103

Telephone/Fax: (216) 391-7070 (216) 391-7751
Chemtrec (24 hr. Emergency) (800) 424-9300

Product Class: SYNTHETIC ORGANIC COLORANT
Trade Name: SIGNAL GREEN AX PIGMENT
Product Code: AX-18-N

SECTION II - INGREDIENT AND HAZARD INFORMATION

Ingredient Name	CAS Number	Percent
(No hazardous ingredients known at this time.)		

SECTION III - HAZARDS IDENTIFICATION

EYE CONTACT
May cause irritation.

SKIN CONTACT
May cause irritation.

INHALATION HAZARDS
Outgassing of formaldehyde vapors can be irritating.

INGESTION HAZARDS
Small amounts swallowed are not likely to cause injury. Not a hazard in normal industrial use.

TARGET ORGANS
No organs affected.

CANCER HAZARDS
This product contains less than 0.1% free formaldehyde and may be capable of outgassing formaldehyde at levels in excess of OSHA's Action Level under some conditions of use. Formaldehyde is a

MATERIAL SAFETY DATA SHEET

MSDS Name: AX-18-N SIGNAL GREEN PIGMENT

Revision Date: 01/11/10
Page Number: 2 of 6

potential cancer hazard. Long term exposure may result in dermatitis or respiratory sensitization for sensitive individuals.

SECTION IV - FIRST AID MEASURES

EYE CONTACT

Immediately flush with water for at least 15 minutes while holding eyelids open. Call a physician.

SKIN CONTACT

Practice good industrial hygiene. Wash with soap and water.

INHALATION

Remove to fresh air. Treat symptoms. Call a physician.

INGESTION

Do not induce vomiting. Give water. Call a physician.

SECTION V - FIRE-FIGHTING MEASURES

Flammability Class	NA
Flash Point:	None
Explosive Range:	None
	None

FLAMMABLE PROPERTIES

During a fire, irritating and toxic gases may be formed. Do not breathe smoke or fumes. Wear suitable protective equipment.

EXTINGUISHING MEDIA

Use dry chemical, alcohol foam, carbon dioxide or water spray when fighting fires involving this material.

FIRE FIGHTING INSTRUCTIONS

Keep unnecessary people away. Isolate area. Stay upwind. Wear self-contained breathing apparatus.

SECTION VI - ACCIDENTAL RELEASE MEASURES

CONTAINMENT

This material is hydrophobic and should be prevented from entering the sewer system.

CLEAN-UP

Place in an appropriate recovery or salvage drum for disposal.

MATERIAL SAFETY DATA SHEET

MSDS Name: AX-18-N SIGNAL GREEN PIGMENT

Revision Date: 01/11/10
Page Number: 3 of 6

PERCLA/SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (TITLE III)
This is not a regulated material under 40 CFR 117, 302. Notification of spills is not required.

EVACUATION

Not normally necessary. Refer to your organization's Release Response Procedures.

SECTION VII - HANDLING AND STORAGE

HANDLING

Use in a well ventilated area. Improper handling may lead to dust cloud formation which, as with any organic dust, may be an explosion hazard.

STORAGE

Store in a dry area.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

ACGIH TLV	ACGIH TLV-C	ACGIH STEL	OSHA STEL	OSHA PEL
-----------	-------------	------------	-----------	----------

Although no exposure limit has been established for this product, the OSHA PEL for nuisance dust of 15 mg/m³ total dust and 5 mg/m³ respirable dust is recommended. In addition, the ACGIH TLV for nuisance dust is 10 mg/m³.

ENGINEERING CONTROLS

General ventilation is recommended. Additional local exhaust ventilation is recommended where dusts, mists, or vapors may be released.

RESPIRATORY PROTECTION

A NIOSH approved respirator with a combination formaldehyde/HEPA cartridge is recommended.

PERSONAL PROTECTIVE EQUIPMENT

Where contact is likely, chemical resistant gloves and safety glasses or goggles are recommended.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Form:	Powder
Appearance/Color:	Green
Odor:	Pungent
Solubility (in water):	Insoluble

MATERIAL SAFETY DATA SHEET

MSDS Name: AX-18-N SIGNAL GREEN PIGMENT

Revision Date: 01/11/10

Page Number: 4 of 6

Boiling Range: None
Evaporation Rate: Non Volatile
Vapor Density: Non Volatile
% Volatile Weight: 0.0
% Volatile Volume: 0.0
Weight/Gallon: 11.34
VOC: None

SECTION X - STABILITY AND REACTIVITY

Stability: This product is stable
Hazardous Polymerization: Hazardous polymerization will not occur

CONDITIONS TO AVOID

Heat, sparks, and open flame.

INCOMPATIBILITIES

Strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS

In the event of combustion, oxides of carbon, nitrogen and sulfur will be formed.

SECTION XI - TOXICOLOGICAL INFORMATION

Acute Oral Toxicity (albino rats): LD50 >16,000 mg/kg
Acute Inhalation (albino rats): LC50 >4 mg/l (4 hours)
Acute Dermal Toxicity (albino rats): LD50 >23,000 mg/kg

SECTION XII - ECOLOGICAL INFORMATION

No studies have been conducted on this product.

SECTION XIII - DISPOSAL

Dispose of in accordance with local, state, and federal regulations.

SECTION XIV - TRANSPORT INFORMATION

UN Number: NOT REGULATED
Packaging Group:
Hazard Class:
Shipping Name:

MATERIAL SAFETY DATA SHEET

MSDS Name: AX-18-N SIGNAL GREEN PIGMENT

Revision Date: 01/11/10
Page Number: 5 of 6

SECTION XV - REGULATORY INFORMATION

SARA TITLE III SECTION 313:

This product contains no chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act.

CALIFORNIA PROPOSITION 65 (CARCINOGEN)

This product contains a chemical known to the state of California to cause cancer.

Ingredient Name	CAS Number
FORMALDEHYDE	00050-00-0

OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200

This product is not considered hazardous as defined.

SARA SECTIONS 311 AND 312

Reporting of this product is not required.

TOXIC SUBSTANCES CONTROL ACT (TSCA)

All components in this product are listed, or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) 8(b) Inventory.

CLEAN WATER ACT

This product contains no ingredients regulated by the Clean Water Act.

CLEAN AIR ACT

This product contains no ingredients regulated by the Clean Air Act.

HAZARDOUS AIR POLLUTANTS (HAPS)

This product contains no Hazardous Air Pollutants (HAP's).

CLEAN AIR ACT AMMENDMENTS (ODS)

No DAY-GLO product contains an ozone depleting substance (ODS), nor are any of our products manufactured with them.

COALITION OF NORTHEAST GOVERNORS (CONEG)

This product is in compliance with CONEG (i.e., total cadmium, chromium, lead and mercury < 100 ppm).

FDA 21 CFR

DAY-GLO Color Corp. products are not listed by the FDA for use under 21 CFR since potential applications are so numerous that specific applications must be submitted to the FDA for inclusion in the 21 CFR FDA listing.

MATERIAL SAFETY DATA SHEET

MSDS Name: AX-18-N SIGNAL GREEN PIGMENT

Revision Date: 01/11/10
Page Number: 6 of 6

SECTION XVI - OTHER INFORMATION

LABEL INFORMATION

AX-18-N SIGNAL GREEN PIGMENT

HEALTH - 1 FLAMMABILITY - 1 REACTIVITY - 0

PRECAUTIONS: Contains less than 0.1% formaldehyde a potential cancer hazard. May outgas to levels above OSHA's action level with possible respiratory sensitization. Use & store with adequate ventilation. As with most organic dusts there is a possible dust explosion hazard with ignition source.

FIRST AID: EYES: Flush with water for 15 minutes. SKIN: Wash with soap and water. INGESTION: Do not induce vomiting, give water. Call a physician.

FIRE FIGHTING USE: Water spray, dry chemical, foam or CO2 (Toxic fumes emitted on burning).

SPILL CONTROL: Sweep up and dispose according to local, state and federal regulations.

CONTAINS:

RESIN

C.I. PIGMENT GREEN 7

CAS NO. OR NJ TSN:

39277-28-6

01328-53-6

TARGET ORGANS: NO ORGANS AFFECTED.

MATERIAL V.O.C.: NONE

CALIFORNIA PROP 65: This product contains a component known to the State of California to cause cancer: Formaldehyde (50-00-0).

NOTE - Additional information is available from your Employer and the Material Safety Data Sheet.

DISCLAIMER

The information contained herein is believed to be accurate, but is not warranted. Nothing contained herein constitutes a specification, nor is it intended to warrant suitability for the intended use.
