



Section 1. Product and Company Identification

Product Name 3-(N-Ethyl-N-isopentylamino)-6-methyl-7-anilino)fluoran
CAS Number 70516-41-5

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Section 2. Hazards Identification

Classification of the substance or mixture

OSHA/HCS status: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

GHS Label Elements

Pictograms:

Signal word: No signal word

Hazard and precautionary statements

Hazards not otherwise classified: Fine dust clouds may form explosive mixtures with air. Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.

Section 3. Composition / Information on Ingredients

Common Name 3-(N-Ethyl-N-isopentylamino)-6-methyl-7-anilino)fluoran
Synonym(s) 2'-Anilino-6'-[ethyl(3-methylbutyl)amino]-3'-methylspiro[isobenzofuran-1(3H),9'-[9H]xanthene]-3-one; 3-(N-Ethyl-N-isoamylamino)-6-methyl-7-anilino)fluoran

Formula

CAS Number 70516-41-5

COMPONENT	CAS NUMBER	CONCENTRATION
3-(N-Ethyl-N-isopentylamino)-6-methyl-7-anilino)fluoran	70516-41-5	60 - 100%



Section 4. First Aid Measures

Description of necessary 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 if irritation occurs.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. 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.

Skin contact: Wash contaminated skin with soap and water. Get medical attention if symptoms occur.

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. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed potential acute health effects

Eye contact: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.

Inhalation: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Skin contact: No known significant effects or critical hazards.

Ingestion: No known significant effects or critical hazards.

Over exposure signs/symptoms

Eye contact: No known significant effects or critical hazards.

Inhalation: Adverse symptoms may include the following; respiratory tract irritation and coughing

Skin contact: No known significant effects or critical hazards.

Ingestion: No known significant effects or critical hazards.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician: 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.

Specific treatments: No specific treatment.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training.

Section 5. Firefighting Measures

Extinguishing media

Suitable extinguishing media: Use dry chemical, CO₂, water spray, or foam.

Unsuitable extinguishing media: None known



Specific hazards arising from the chemical: Risk of dust explosion in dust-raising operations.

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

Special protective actions for firefighters: No special protection required

Special protective equipment for firefighters: 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

For non-emergency personnel: Avoid breathing dust. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

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 spill: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and Storage

Precautions for safe handling

Protective measures: Put on appropriate personal protective equipment (see Section 8). Avoid breathing dust.

Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking, and smoking. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities: Store in accordance with local regulations. 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. 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.



Section 8. Exposure Controls / Personal Protection

Control parameters

Occupational exposure limits: None

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.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Individual protection measures

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. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Skin protection

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection: Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and Chemical Properties

Appearance

Physical state: Solid (powder)

Color: Yellowish

Odor: Odorless

Odor threshold: Not available

pH: 7 suspension



Melting point: 166 - 168°C (330.5 - 334.4°F)
Boiling point: > 218°C (> 424.4°F)
Flash point: Closed cup 330°C (626°F) (Pensky-Martens)
Evaporative rate: Not applicable
Flammability (solid, gas): Not flammable
Lower and upper explosive (flammable) limits: Lower, 25 g/m³
Vapor pressure: 9.2*10e⁻⁸ hPa
Vapor density: Not applicable
Relativity density: 1.2
Solubility: Very slightly soluble in the following materials; cold water and hot water
Solubility in water: < 0.0001 g/l
Partition coefficient n-octanol/water: 4.2 to 7 log POW
Auto-ignition temperature: 490°C (914°F)
Decomposition temperature: Not available
Viscosity: Not applicable

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.

Condition to avoid: No specific data

Incompatible materials: Reactive or incompatible with the following materials; oxidizing materials

Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological Information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2'-Anilino-6'-[ethyl(3-methylbutyl)amino]-3'-methylspiro [isobenzofuran-1(3H),9'-[9H]xanthene]-3-one	LD50 oral	Rat	> 16,000 mg/kg	-

Irritation/Corrosion: There is no data available.

Sensitization: There is no data available.

Carcinogenicity: There is no data available.

Specific target organ toxicity (single exposure): There is no data available.

Specific target organ toxicity (repeated exposure): There is no data available.

Aspiration hazard: There is no data available.

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



Ingestion.

Potential acute health effects

Eye contact: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.

Inhalation: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Skin contact: No known significant effects or critical hazards.

Ingestion: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: No known significant effects or critical hazards.

Inhalation: Adverse symptoms may include the following; respiratory tract irritation and coughing

Skin contact: No known significant effects or critical hazards.

Ingestion: No known significant effects or critical hazards.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects: No known significant effects or critical hazards.

Potential delayed effects: No known significant effects or critical hazards.

Long term exposure

Potential immediate effects: No known significant effects or critical hazards.

Potential delayed effects: No known significant effects or critical hazards.

Potential chronic health effects

General: Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Carcinogenicity: No known significant effects or critical hazards.

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.

Numerical measures of toxicity

Acute toxicity estimates: There is no data available

Section 12. Ecological Information

Toxicity:

Product/Ingredient Name	Result	Species	Exposure
2'-Anilino-6'-[ethyl(3-methylbutyl)amino]-3'-methylspiro[isobenzofuran-	NOEC 250 ppm; NOEC 100 mg/L	Algae; Daphnia	72 hours



1-(3H),9'-[9H]xanthene]-3-one			
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Persistence and degradability: There is no data available

Bioaccumulative potential:

Product/Ingredient Name	LogPow	BCF	Potential
2'-Anilino-6'-[ethyl(3-methylbutyl)amino]-3'-methylspiro[isobenzofuran-1-(3H),9'-[9H]xanthene]-3-one	4.2 - 7	-	high

Mobility in soil

Soil/water partition coefficient (Koc): There is no data available

Other adverse effects: No known significant effects or critical hazards

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

DOT: Not regulated

IMDG: Not regulated

IATA: Not regulated

Environmental hazards: No

Special precautions for user: Transport within user's premises; always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not available

Section 15. Regulatory Information

U.S. Federal Regulations

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): This material is listed or exempted.

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs): Not listed

Clean Air Act Section 602 Class I Substances: Not listed

Clean Air Act Section 602 Class II Substances: Not listed



DEA List I Chemicals (Precursor Chemicals): Not listed
DEA List II Chemicals (Essential Chemicals): Not listed

SARA 302/304

Composition/information on ingredients: No products were found

SARA 304 RQ: Not applicable

SARA 311/312: Not applicable

State Regulations

Massachusetts: This material is not listed

New York: This material is not listed

New Jersey: This material is not listed

Pennsylvania: This material is not listed

California prop. 65: No products were found

Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

REVISION DATE: 7/27/2017

