

## SAFETY DATA SHEET

## THERMO BLACK- 2

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY /UNDERTAKING:

**1.1 Product identifier:** THERMO BLACK- 2

CAS: 89331-94-2

EC: 403-830-5

**1.2 Synonyms:**

2-Anilino-6-dibutylamino-3-methylfluoran, 2-phenylamino-3-methyl-6-di-n-propylaminofluoran; ODB-2; color former

**1.3 Details of the supplier of the safety data sheet:**

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## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS:

CAS NO	CHEMICAL NAME	CONTENT	EINECS
89331-94-2	2-Anilino-6-dibutylamino-3-methylfluoran	99.0	403-830-5

## SECTION 3: HAZARDOUS IDENTIFICATION:

**Classification of the substance or mixture:**

**3.1 Classification according to Regulation (EC) No 1272/2008**

Chronic aquatic toxicity (Category 4), H413

For the full text of the H-Statements mentioned in this Section, see Section 16.

**3.2 Label elements**

**Labeling according Regulation (EC) No 1272/2008**

Pictogram none

Signal word none

Hazard statement(s) May cause long lasting harmful effects to aquatic life.

H413

Precautionary statement(s) none

Supplemental Hazard Statements

**3.3 Other hazards** none

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#### SECTION 4: FIRST AID MEASURE:

- 4.1** Consult a physician. Show this safety data sheet to the doctor in attendance.  
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.  
Wash off with soap and plenty of water. Consult a physician.  
Flush eyes with water as a precaution.  
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.  
The most important known symptoms and effects are described in the labeling (see section 3.2) and/or in section 11.

#### SECTION 5: FIRE FIGHTING MEASURES:

- 5.1 Extinguishing media:**  
Extinguishing Media:  
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  
Advice for firefighters  
Wear self-contained breathing apparatus for firefighting if necessary.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES:

##### **Personal precautions, protective equipment and emergency procedures**

Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. For personal protection see section 8.

##### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

##### **Methods and materials for containment and cleaning up**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

##### **Reference to other sections**

For disposal see section 13.

#### SECTION 7: HANDLING AND STORAGE:

##### **Precautions for safe handling**

Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 3.2.

##### **Conditions for safe storage, including any incompatibilities**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): Combustible Solids

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### SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION:

#### Exposure controls

##### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

##### Personal protective equipment

###### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

###### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

###### Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

###### Respiratory protection

Respiratory protection is not required. Where protection from nuisance le (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

###### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES:

#### 9.1 Information on basic physical and chemical properties

Appearance	Off white to white powder
Molecular Formula	C35H36N2O3
Molecular Weight	532.68 g/mol
Odor	No data available
pH	No data available
Melting point/range	182- 185 °C
boiling point /range	No data available
Flash point	No data available
Evaporation rate	No data available

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Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Water solubility	Insoluble
Partition coefficient	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

### 9.2 Other safety information

Surface tension	No data available
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## SECTION 10: STABILITY AND REACTIVITY:

### Reactivity

No data available

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

No data available

### Conditions to avoid

No data available

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides Other decomposition products - No data available

In the event of fire: see section 5

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**SECTION 11: TOXOLOGICAL INFORMATION:**

**Information on toxicological effect**

LD50 Oral - Rat - male and female - > 2,000 mg/kg

LD50 Dermal - Rat - male and female - > 2,000 mg/kg

**Skin corrosion/irritation**

Skin - Rabbit

Result: No skin irritation

**Serious eye damage/eye irritation**

Eyes - Rabbit

Result: No eye irritation

**Respiratory or skin sensitization**

- Guinea pig

Did not cause sensitization on laboratory animals.

**Germ cell mutagenicity**

in vitro assay

S. typhimurium

Result: negative

Mutagenicity (micronucleus test)

Mouse - male and female Result: negative

**Carcinogenicity**

IARC: Not classified.

NTP: Not listed.

OSHA: Not listed.

Acute toxic effects: Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

**Reproductive toxicity**

No data available

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**Additional Information**

Repeated dose toxicity - Rat - male and female - Feed - No observed adverse effect level - 427 mg/kg

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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**SECTION 12: ECOLOGICAL INFORMATION:**

**Toxicity**

Toxicity to fish            static test LC50 - Danio rerio (zebra fish) - > 0.1 mg/l - 96 h  
(OECD Test Guideline 203)

Toxicity to algae            static test EC50 - Desmodesmus subspicatus  
(green algae) - > 30.4 mg/l - 72 h (Benzyl 2-naphthyl ether)  
(OECD Test Guideline 201)

**Persistence and degradability**

Biodegradability    aerobic - Exposure time 28 d  
Result: 1 % - Not readily biodegradable.

**Bio accumulative potential**

No data available

**Mobility in soil**

No data available

**Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted  
Other adverse effects

**SECTION 13: DISPOSAL CONSIDERATIONS:**

**Waste treatment methods**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a Chem scrubber.

**Contaminated packaging**

Dispose of as unused product

**SECTION 14: TRANSPORT INFORMATION:**

**14.1 UN number**

ADR/RID: -

IMDG: -

IATA: -

**14.2 UN proper shipping name**

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

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### 14.3 Transport hazard class(es)

ADR/RID: -

IMDG: -

IATA: -

### 14.4 Packaging group

ADR/RID: -

IMDG: -

IATA: -

### 14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

### 14.6 Special precautions for user

No data available

## SECTION 15: REGULATORY INFORMATION:

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

### Chemical safety assessment

For this product a chemical safety assessment was not carried out

## SECTION 16: ADDITIONAL INFORMATION:

### Full text of H-Statements referred to under sections 2 and 3.

H413 May cause long lasting harmful effects to aquatic life.

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified