

MATERIAL SAFETY DATA SHEET

1. Identification of the substance / preparation and company

Product Name : DIRECT BLACK 168
CAS NO: 85631-88-5

Manufacturer Identification:

ALLIANCE ORGANICS LLP.
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2. Composition / information on ingredients

Ingredient	Content%	Hazardous
DIRECT BLACK 168	100	NO

3. Possible hazards

Critical hazards to man and the environment: No hazard identified from available data.

4. First aid measures

General advice: Considered non-toxic.
If inhaled: Remove to fresh air.
On skin contact: Wash with soap and water.
On contact with eyes: Flush with water for 10 min.
On ingestion: No hazard identified from available data.
Note to physician: Treat symptomatically

5. Firefighting measures

Suitable extinguishing media: any conventional means, including water.
Unsuitable extinguishing media for safety reasons: none
Special protective equipment: none
Further information: there is no possibility of explosion or auto ignition

6. Accidental release measures

Personal precautions: Avoid ingestion and respiratory tract absorption. Keep clean personal equipment.
Environmental precautions: Local ventilation.
Methods for cleaning up: Take up mechanically, fill into labeled, closable containers

7. Handling and storage

Handling: Considered non-toxic. Avoid direct contact with skin and eyes. If manipulation produces excessive dustiness, wear a respirator or mouth filter, And simple protective eyeglasses.
Handle with good industrial practices. See for example the ETAD publication "Guidelines for Safe Handling of Dyes".
Protection against fire and explosion: see Section 5.
Storage: The product is stable and no decomposition will take place under normal storage conditions

8. Exposure controls and personal protection

Additional information on the layout of technical plant (see7) Components with workplace control parameters: none.

Personal protective equipment

Respiratory protection: Wear an approved dust respirator

Hand and body protection: Wear gloves. Avoid direct contact with skin. Eye protection: Wear safety glasses. General safety and hygiene measures: Recommended decontamination facilities: eye bath, washing facilities.

9. Physical and chemical properties

Form: solid

Color: a) powdered

b) 1% water solution:

Odor: none

Change in physical state

Melting point/melting range: not applicable

Boiling point/boiling range: not applicable

Flash point: not applicable

Combustibility: not applicable

Explosion limits: not applicable

Ignition temperature: not applicable

Self-ignition temperature: not applicable

Self-ignition: not applicable

Explosion hazard: not applicable

Fire promoting properties: not applicable

Vapour pressure: not applicable

Density: not applicable

Bulk density: 450 - 500 kg/m³

Solubility in water: 40 g/l (60 C)

Solubility in other solvents:

Slightly soluble in DMF, DMSO, pyridine.

Insoluble in alcohols, ketones, hydrocarbons, esters.

pH value: 8,5 - 9,5 (at 10 g/l, 20° C)

Octanol/water partition coefficient (log. POW): not available

Viscosity: not applicable

10. Stability and reactivity

Conditions to avoid: The product is stable.

Substances to avoid: Strong reducing or oxidizing agents destroy the dye.

Hazardous reactions: When handled and stored appropriately, no dangerous reactions are known.

Hazardous decomposition products: When used and handled as intended, none.

11. Toxicological information

Acute toxicity

LD50/oral/rat: over 2000 mg/kg

LC50/inhale. /rat: No available data.

Primary skin irritation/rabbit/: No

Primary mucous membrane irritation/rabbits' eyes: No

Sensitizing: No

Other information: Considered non-toxic

Subacute-chronic toxicity: None.

Experiences in humans: No data available

Additional information: See Section 3.

12. Ecological information

Estimated environmental impact of this material: It has low biochemical oxygen demand, a low potential to affect some aquatic organisms, a low potential to bioconcentrate. The direct instantaneous discharge to a receiving body of water of an amount of this chemical, which will rapidly dilute, is not expected to cause adverse environmental effects. Ecotoxic effects

Acute fish toxicity: 96 h- LC-50

Further ecological information

COD-Value (g oxygen/ g): < 2.08

AOX (% organic halide): 0.00

13. Disposal considerations

Product: Of the methods of disposal currently available, it is recommended that an alternative be selected according to the following order of preference, based on environmental acceptability:

- a) Recycle or rework if at all feasible,
- b) Incinerate at an authorized facility, or,
- c) Treat at an acceptable waste treatment facility.

Contaminated packaging: Incinerate or treat at an acceptable waste treatment facility.

14. Transport information

Sea transport

IMDG/GGVSee : NOT CLASSIFIED.

Proper technical name: dye, solid

Remarks: Keep away from food

Air transport

ICAO/IATA: NOT CLASSIFIED.

Proper technical name: dye, solid

Remarks: Keep away from food

15. Regulatory information

Labeling according to EEC Directives

Non-hazardous chemical, no special labeling is required.

16. Other information

The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.

The information given and the recommendations made herein apply to our product alone and not combined with other products. Such are based on our research and on data from other reliable sources and are believed to be accurate. No guarantee of accuracy is made. It is the purchasers' responsibility before using any product to verify these data under their own operating conditions and to determine if the product is suitable for their purposes.