



SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) 453/2010

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Name	Themoplastic Dye Sachet. Black
Product Inclusion	This document covers Thermoplastic Dye Sachet. Black only.
Container Size	190g

1.2. Relevant identified uses of the substance of mixture and uses advised against

Identified Uses	Colorants (pigments and dyestuffs), inorganic
Uses advised against	No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier	Meon Ltd. Railside Northarbour Spur Portsmouth PO6 3TU +44 (0) 23 9220 0606 mail@meonuk.com
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1.4. Emergency Telephone Number

Emergency telephone	+44 (0) 808 118 1922
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008, (GB CLP).

Not classified.

Classification according to Directive 67/548/EEC 1999/45/EEC, (GB CLP).

Not classified.

2.2. Label Elements

Hazard pictograms	Not applicable.
Signal word	No signal word.
Hazardous component(s) to be indicated on label	
H-statement(s)	No known significant effects or critical hazards.
P-statement(s)	No known significant effects or critical hazards.

2.3. Other hazards

Other hazards which do not result in classification

Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.

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SECTION 3: Composition/information on ingredients

SUBSTANCE [] MIXTURE [X]

Product definition (REACH)

Mono-constituent substance

Hazardous ingredients

Ingredient	Cas-No: EC No:	Classification	Concentration
Triiron tetraoxide	1317-61-9 215-277-5	Not classified	

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting in this section, in accordance with EU or national regulations.

SECTION 4: First aid measures

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

4.1. Description of first aid measures

General advice

In case of inhalation:

Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention if symptoms occur. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

In case of skin contact:

No special measures required.

In case of eye contact:

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

In case of ingestion:

No special measures required.

Self-protection of the first aider:

None.

4.2. Most important symptoms and effects, both acute and delayed

See section 11 for more detailed information on health effect and symptoms.

4.3. Indication of any immediate medical attention and special treatment needed

See section 11 for more detailed information on health effect and symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

In case of fire, use water spray (fog), foam, dry chemical or CO₂.

Extinguishing media which must not be used for safety reasons

None known.

5.2. Special hazards arising from the substance or mixture

Hazards from the substance or mixture

No specific fire or explosion hazard.

Hazardous combustion products

No specific data.

5.3. Advice for firefighters

Special precautions for firefighting

Not applicable.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Avoid breathing dust. Provide adequate ventilation. Put on appropriate personal protective equipment (see Section 8). Hazard of slipping on split product.

6.2. Environmental precautions

Environmental precautions

Avoid dispersal of split material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewer, waterways, soil or air).

6.3. Methods and material for containment and cleaning up

Small spill

Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.

Large spill

Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

6.4. Reference to other sections

See section 1 for emergency contact information.

See section 8 for information on appropriate personal protective equipment.

See section 13 for additional waste treatment information.

6.5. Additional information

No information.

SECTION 7: Handling and storage

7.1. Precautions on safe handling

No special measures required.

7.2. Conditions for safe storage, including any incompatibilities

No special measures required

7.3. Specific end uses

No specific advice for end use available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

EH40/2005 WELs (United Kingdom (UK), 1/2012)

Name	LTEL ppm	STEL ppm	STEL mg/m ³	LTEL mg/m ³	Form
Triiron tetraoxide			10(as Fe)	5(as Fe)	fume

Derived effect levels

Name	Type	Exposure	Value	Population	Remarks
Triiron tetraoxide	DNEL	Long term inhalation	10mg/m ³	Workers	Inhalable dust
	DNEL	Long term inhalation	3mg/m ³	Workers	Inhalable dust

Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, work place atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN689 (Workplace atmospheres – Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres – Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN482

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(Workplace atmospheres – General requirements for the performance of procedures for the measurement of chemical agents). Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

8.2. Exposure controls

Risk management measures

Technical measures

Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour 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.

Respiratory protection

Recommended: Dust-protection mask

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. If operating conditions cause high dust concentrations to be produced, use dust goggles. Recommended safety glasses with side-shields.

Hand protection

Recommended: gloves

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. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of the environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical state:	Solid. [powders]
Colour:	Black
Odour:	Odourless
Ph:	5 to 8 [Conc. (%w/w): 5%]
Melting point:	>1000°C (>1832°F)
Flash point:	Closed cup: not applicable.
Density:	4,6 kg/L (20°C)
Bulk density:	300 to 1000 kg/m ³
Solubility:	Insoluble in the following materials: cold water
Decomposition temperature:	>80°C

9.2. Other information

No information.

SECTION 10: Stability and reactivity

10.1. Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2. Chemical stability

The product is stable.

10.3. Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4. Conditions to avoid

At temperatures above 80°C the product may become unstable and oxidise. This generates additional heat which, under unfavourable conditions, may result in the combustion of flammable materials. The product should therefore not be stored near heat sources.

10.5. Incompatible materials

No specific data.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

Toxicity values

Acute toxicity

Hazardous ingredients

Name According to EEC	Oral LD50 (RAT)	Dermal LD50 (RAT)	Dermal LD50 (RBT)	Inhale LC50 (RAT)
BAYFERROX 318 M	>5000mg/kg			

*Test results on an analogous product.

11.1. Information on toxicological effects

Potential acute health effects

Eye contact

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

Irritation/corrosion

Skin:

Non-irritating (Rabbit)

Eyes:

Non-irritating (Rabbit)

Sensitization

Not sensitizing

Potential chronic health effects

Test:

Ames test

Experiment:

In vitro Subject: Bacteria

Result:

Negative

Chronic effects:

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

SECTION 12: Ecological information

12.1. Toxicity

Hazardous ingredients

Product/ingredient name	Test	Result	Species	Exposure
Triiron tetraoxide	EU C.2	Acute ECO >10000 mg/l	Daphnia-Daphnia magna	48h
	-	Acute LCO >10000mg/l	Fish –Danio rerio	96h

Conclusion/summary

Not available.

12.2. Persistence and degradability

Not available.

12.3. Bioaccumulative potential

Not available.

12.4. Mobility in soil

Not available.

12.5. Results of PBT and vPvB assessment

Not applicable.

12.6. Other adverse effects

No known significant effects or critical hazards.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product

Methods of disposal

Examine possibilities for re-utilisation. Product residues and uncleaned empty containers should be packaged, sealed, labelled and disposed of or recycled according to relevant national and local regulations. Where large quantities are concerned, consult the supplier. When uncleaned empty containers are passed on, the recipient must be warned of any possible hazard that may be caused by residues. For disposal within the EC, the appropriate code according to European Waste List (EWL) should be used. It is among the tasks of the polluter to assign the waste to waste codes specific to industrial sectors and processes according to the European Waste List (EWL).

Hazardous waste

Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

Packaging

Methods of disposal

The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions

This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of split material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

Transport class

	Land transport ADR/RID	Marine transport IMDG	Air transport ICAO/IATA
14.1 UN-No	-	-	-
14.3 Transport hazard classes	-	-	-
14.2 Description of the goods	-	-	-
14.2 UN proper shipping name	-	-	-
Danger releasing substance	-	-	-
Labels	-	-	-
Category	-	-	-
Factor	-	-	-
Classification Code	-	-	-
Tunnel restriction code	-	-	-
14.5 Environmental hazards	No.	No.	No.
EmS		-	
14.6 Special precautions for user/additional information	Not regulated.	Not regulated.	Not regulated.
Stowage category		-	

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not available.

Hazard notes:

Not dangerous cargo.

Keep separated from foodstuffs.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Other EU regulations

Seveso II Directive

This product is not controlled under the Seveso II Directive.

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15.2 Chemical Safety Assessment

Not applicable.

SECTION 16: Other information

Relevant R- phrases and H -phrases

List of Wastes" Acronym & Abbreviation Key:

BMGV Biological Monitoring Guidance Values are given in Table 2 of EH40/2005 Workplace exposure limits.

Sk Can be absorbed through the skin. Dermal absorption may lead to systemic toxicity.

CLP Classification, Labelling & Packaging Regulation

EC European Commission

EU European Union

US United States

CAS Chemical Abstract Service

EINECS European Inventory of Existing Chemical Substances

REACH Registration, Evaluation, Authorization of Chemicals Regulation

GHS Globally Harmonized System of Classification and Labeling of Chemicals

LTEL Long term exposure limit

STEL Short term exposure limit

OEL Occupational exposure limit

ppm Parts per million

mg/m³ Milligrams per cubic meter

TLV Threshold Limit Value

ACGIH American Conference of Governmental Industrial Hygienists

OSHA Occupational Safety & Health Administration

PEL Permissible Exposure Limits

VOC Volatile organic compounds

g/l Grams per liter

mg/kg Milligrams per kilogram

N/A Not applicable

LD₅₀ Lethal dose at 50%

LC₅₀ Lethal concentration at 50%

EC₅₀ Half maximal effective concentration

IC₅₀ Half maximal inhibitory concentration

PBT Persistent bioaccumulative toxic chemical

vPvB Very persistent and very bioaccumulative

EEC European Economic Community

ADR International Transport of Dangerous Goods by Road

RID International Transport of Dangerous Goods by Rail

UN United Nations

IMDG International Maritime Dangerous Goods Code

IATA International Air Transport Association

MARPOL International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978

IBC International Bulk Container

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.