

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Issue date: 3/26/2020 Revision date: 3/26/2020 Version: 1.1

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

1.1. Product identifier

Product form : Substance

Substance name : E172 DURANAT BLACK IRON OXIDE

: 235-442-5 EC-No. CAS-No. : 12227-89-3 **REACH** registration No : 01-2119457646-28 : Finished Product Product group

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial

For professional use only

Use of the substance/mixture : Pigment

Food-stuff industry Cosmetics Pharmaceuticals

## 1.2.2. Uses advised against

No additional information available

## 1.3. Details of the supplier of the safety data sheet

Town End (Leeds) plc

Silver Court

Intercity Way, Stanningley

LS13 4LY Leeds - United Kingdom

T +44 (0)113 256 4251 - F +44 (0)113 239 3315

msds@dyes.co.uk - www.dyes.co.uk

### 1.4. Emergency telephone number

**Emergency number** : +44 (0)113 256 4251

## **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

## Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

## Adverse physicochemical, human health and environmental effects

No additional information available

## 2.2. Label elements

## Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

#### 2.3. Other hazards

No additional information available

# **SECTION 3: Composition/information on ingredients**

3.1. Substances			
Name	Product identifier	%	
	(CAS-No.) 12227-89-3 (EC-No.) 235-442-5 (REACH-no) 01-2119457646-28	100	

## 3.2. Mixtures

Not applicable

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

: Remove person to fresh air and keep comfortable for breathing. Call a poison center or a First-aid measures after inhalation

doctor if you feel unwell.

First-aid measures after skin contact : Wash skin with plenty of water. Wash contaminated clothing before reuse. If skin irritation

occurs: Get medical advice/attention.

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First-aid measures after eye contact : In case of contact with eyes, rinse immediately with plenty of water and seek medical

advice. Remove contact lenses, if present and easy to do. Continue rinsing.

First-aid measures after ingestion : Do NOT induce vomiting. If you feel unwell, seek medical advice.

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

Symptoms/effects after inhalation : Under normal conditions of use, no adverse effects to health have been observed. Dust

from this product may cause respiratory irritation.

Symptoms/effects after skin contact : Under normal conditions of use, no adverse effects to health have been observed. May

cause irritation to skin.

Symptoms/effects after eye contact : Direct contact with the eyes is likely to be irritating.

Symptoms/effects after ingestion : Under normal conditions of use, no adverse effects to health have been observed.

Chronic symptoms : None known.

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

Treat symptomatically.

## **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing agent suitable for surrounding fire.

Unsuitable extinguishing media : Do not use water jet.

## 5.2. Special hazards arising from the substance or mixture

Fire hazard : In case of fire and/or explosion do not breathe fumes. Decomposition products may be a

hazard to health.

Reactivity in case of fire : None known.

Hazardous decomposition products in case of fire : Hazardous vapours may be released.

## 5.3. Advice for firefighters

Precautionary measures fire : Evacuate area. Eliminate all ignition sources if safe to do so.

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Do not allow run-off from fire fighting to enter drains or water courses.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Ensure adequate ventilation. Eliminate every possible source of ignition. Evacuate area.

Avoid dust formation.

### 6.1.1. For non-emergency personnel

Protective equipment : Concerning personal protective equipment to use, see section 8.

Emergency procedures : Evacuate unnecessary personnel.

## 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment.

Emergency procedures : Ventilate area

## 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

## 6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal. Dispose in a safe manner in

accordance with local/national regulations.

## 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

## **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Additional hazards when processed : Ensure adequate ventilation. In case of inadequate ventilation wear respiratory protection.

Precautions for safe handling : Handle in accordance with good industrial hygiene and safety practice. Use personal

protective equipment as required. Avoid dust formation.

Hygiene measures : Always wash hands after handling the product. Wash contaminated clothing before reuse.

## 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed in a cool, well-ventilated place. Protect from moisture.

Incompatible products : Strong acids. Strong bases.
Incompatible materials : Sources of ignition. Direct sunlight.

## 7.3. Specific end use(s)

No additional information available

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## SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

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#### **DNEL/DMEL (Workers)**

Long-term - local effects, inhalation 10 mg/m<sup>3</sup>

## 8.2. Exposure controls

## Personal protective equipment:

Avoid all unnecessary exposure.

Hand	protection:
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Refer to manufacturer's information

Reier to manufacturer's information					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Chemical resistant gloves (according to European standard EN 374 or equivalent)	Nitrile rubber (NBR), Butyl rubber, Latex, Polyvinylchloride (PVC), Neoprene protective gloves	6 (> 480 minutes)		Gloves must be replaced after each use and whenever signs of wear or perforation appear	EN ISO 374

#### Eye protection:

Chemical goggles or safety glasses. Refer to manufacturer's information

Туре	Use	Characteristics	Standard
Safety glasses	Dust, Fine dust		EN 166

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

Wear appropriate mask

,			
Device	Filter type	Condition	Standard
Respiratory protective device with a particle filter	Type P1, Type P2, Type P3	Protection for Liquid particles, Vapour protection	EN 149

## Personal protective equipment symbol(s):









#### Other information:

Vapour pressure

Do not eat, drink or smoke during use.

## **SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**Physical state : Solid

Appearance : Powder. Colour : Black. Odour : odourless. Odour threshold : No data available : 6 - 7.1 100g/l @ 25°C рΗ Relative evaporation rate (butylacetate=1) : No data available Melting point : No data available Freezing point : No data available Boiling point : No data available Flash point : No data available Auto-ignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) : Not flammable

: No data available

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Relative vapour density at 20 °C : No data available Relative density : No data available Density : 800 kg/m³ Solubility : Insoluble.

Partition coefficient n-octanol/water (Log Pow) : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available

Explosive properties : Not expected to be a fire/explosion hazard under normal conditions of use.

Oxidising properties : Non oxidizing material according to EC criteria.

Explosive limits : No data available

#### 9.2. Other information

No additional information available

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions of use.

#### 10.3. Possibility of hazardous reactions

Reacts with: Oxidising agents.

## 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

#### 10.5. Incompatible materials

Bleaching agents. Oxidizing substances. chlorine. Oxygen. Permanganates. Peroxides. Chromic acid & chromates. Hypochlorite solutions. Nitric acid. sulphuric acid.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, nitrogen oxides (NOx).

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

#### E172 DURANAT BLACK IRON OXIDE (12227-89-3)

LD50 oral rat > 10000 mg/kg

Skin corrosion/irritation : Not classified

pH: 6 – 7.1 100g/l @ 25°C

Serious eye damage/irritation : Not classified

pH: 6 - 7.1 100g/l @ 25°C

Respiratory or skin sensitisation : Not classified

Additional information : Based on available data, the classification criteria are not met

Germ cell mutagenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Reproductive toxicity : Not classified

Additional information : Based on available data, the classification criteria are not met

STOT-single exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

STOT-repeated exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

Aspiration hazard : Not classified

Additional information : Based on available data, the classification criteria are not met

Potential adverse human health effects and : Based on available data, the classification criteria are not met.

symptoms

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## **SECTION 12: Ecological information**

12.1. Toxicity

Hazardous to the aquatic environment, short-term

(acute)

: Not classified

Hazardous to the aquatic environment, long-term

(chronic)

: Not classified

## E172 DURANAT BLACK IRON OXIDE (12227-89-3)

EC50 72h algae (1) 18 mg/l

## 12.2. Persistence and degradability

## E172 DURANAT BLACK IRON OXIDE (12227-89-3)

Persistence and degradability Not readily biodegradable.

#### 12.3. Bioaccumulative potential

## E172 DURANAT BLACK IRON OXIDE (12227-89-3)

Bioaccumulative potential Not potentially bioaccumulable.

#### 12.4. Mobility in soil

No additional information available

## 12.5. Results of PBT and vPvB assessment

No additional information available

## 12.6. Other adverse effects

Additional information : Avoid release to the environment.

Metal Content : Metal : AOX Value :

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

# **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID	
14.1. UN number	14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.2. UN proper shipping name					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.3. Transport hazard class(es)					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.4. Packing group					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.5. Environmental hazards					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
No supplementary information available					
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## 14.6. Special precautions for user

## Overland transport

Not applicable

## Transport by sea

Not applicable

## Air transport

Not applicable

## Inland waterway transport

Not applicable

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#### Rail transport

Not applicable

## 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

# **SECTION 15: Regulatory information**

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

## 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

E172 DURANAT BLACK IRON OXIDE is not on the REACH Candidate List

E172 DURANAT BLACK IRON OXIDE is not on the REACH Annex XIV List

E172 DURANAT BLACK IRON OXIDE is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 july 2012 concerning the export and import of hazardous chemicals.

E172 DURANAT BLACK IRON OXIDE is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

## 15.1.2. National regulations

No additional information available

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## **SECTION 16: Other information**

No additional information available

SDS EU (REACH Annex II) TOWN END

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.