

1781307 | 1000 g 1780725 | 250 g 1782307 | 100 ml

info@deffner-johann.de | +49 9723 9350-0

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according to Regulation (EC) No. 1907/2006



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

1.1 Product identifier

Art.Nr. 1782307

Product name

Iriodin® 307 Star Gold Interior

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

Identified uses Colouring agent

1.3 Details of the supplier of the safety data sheet

Company	Merck KGaA * 64271 Darmstadt * Germany * Phone:+49 6151 72-0
Responsible Department	PM-OQR * e-mail: PM_SDS_Supply@merckgroup.com
Regional representation	Merck Chemicals Ltd * Boulevard Industrial Park * Padge Road *
	Beeston * Nottingham * NG9 2JR * Tel. 01159 430840
	*information@merckgroup.com.

1.4 Emergency telephone number

+49 (0) 6151 722440

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Precautionary statements

Prevention:

P260 Do not breathe dust.

2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients

Chemical nature	: Mica coated with:
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: titanium dioxide, tin oxide ferric oxide silicon dioxide auxiliaries

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3.1 Substance					
Not applicable 3.2 Mixtures					
Hazardous compo	nents				
Remarks		: No	hazardous ingredients		
SECTION 4: First	t aid measu	ires			
4.1 Description of	first aid mea	sures	5		
If inhaled		:	fresh air.		
In case of skin	contact	:	Take off immediately all con with water/ shower.	taminated clothing. Rinse skin	
In case of eye	contact	:	rinse out with plenty of wate Remove contact lenses.	r.	
If swallowed		:	make victim drink water (two if feeling unwell.	o glasses at most). Consult doctor	
4.2 Most importan	t symptoms	and e	ffects, both acute and dela	ved	
Symptoms		:	We have no description of a	ny toxic symptoms.	
4.3 Indication of a	ny immediat	e mec	lical attention and special t	reatment needed	
Treatment	-	:	No information available.		
SECTION 5: Fire	fighting me	asur	es		
5.1 Extinguishing	media				
Suitable exting		a :	Use extinguishing measures circumstances and the surro	s that are appropriate to local ounding environment.	
Unsuitable exti media	nguishing	:	For this substance/mixture r agents are given.	no limitations of extinguishing	
5.2 Special hazards arising from the substance or mixture					
Specific hazard firefighting	ds during	:	Not combustible.		
			Ambient fire may liberate ha	zardous vapours.	
5.3 Advice for firef	ighters				
	•	nt :	In the event of fire, wear sel	f-contained breathing apparatus.	
The Safety Data	Sheets for ca	talogu	ie items are available at www	.merck-performance-materials.com	

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Further information		:	Suppress (knock down spray jet.	n) gases/vapours/mists with a water	
SECTION 6: Ad	cidental re	elease r	neasures		
6.1 Personal pre	cautions, p	rotective	e equipment and emer	gency procedures	
Personal pre	ecautions	:	Advice for non-emerge Avoid inhalation of dus Evacuate the danger a consult an expert. Advice for emergency Protective equipment	sts. area, observe emergency procedures, responders:	
6.2 Environment	tal precautio	ons			
Environment	tal precautior	ns :	No special precaution	ary measures necessary.	
6.3 Methods and	I material fo	r contai	nment and cleaning u	р	
Methods for cleaning up :		:	Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.		
6.4 Reference to Indications about			section 13.		
SECTION 7: Ha	andling and	l storag	je		
7.1 Precautions	for safe han	dlina			
Advice on sa		:	Observe label precaut	ions.	
Hygiene me	asures	:	Change contaminated with substance.	clothing. Wash hands after working	
7.2 Conditions f	or safe stora	age, incl	uding any incompatib	pilities	
Further infor storage cond		:	Tightly closed. Dry.		
			Risks from decomposition	ition products: see section 10.3	
	Recommended storage : temperature		Recommended storag	e temperature see product label.	
7.3 Specific end		din oost	ion 4.0 no other energi	c uses are stipulated.	

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
mica (muscovite)	12001-26-2	TWA (Inhalable)	10 mg/m3	GB EH40
Further information	For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected wh, Where no specific short- term exposure limit is listed, a figure three times the long-term exposure should be used12001-26-2TWA0.8 mg/m3GB EH40			
		(Respirable)		
Further information	For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected wh, Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used			
silicon dioxide	7631-86-9	TWA (inhalable dust)	6 mg/m3 (Silica)	GB EH40
Further information	fractions of ai a substance h concentration wide range of particle afte, I that enters the dusts contain limits should b	rborne dust which wi nazardous to health i in air equal to or, Me sizes. The behaviou nhalable dust approx e nose and mouth du components that ha be complied with., W	espirable dust and inhalable II be collected wh, The COS ncludes dust of any kind whe ost industrial dusts contain p ir, deposition and fate of any kimates to the fraction of airb uring breathing and is therefor ve their own assigned WEL, here no specific short-term e g-term exposure should be u 2.4 mg/m3 (Silica)	HH definition of en present at a articles of a particular porne material ore av, Where all the relevant exposure limit is
Further information	fractions of ai a substance h concentration wide range of particle afte, I that enters the dusts contain limits should b	rborne dust which wi nazardous to health i in air equal to or, Me sizes. The behaviou nhalable dust approx e nose and mouth du components that ha be complied with., W	espirable dust and inhalable II be collected wh, The COS ncludes dust of any kind whe ost industrial dusts contain p ir, deposition and fate of any kimates to the fraction of airb uring breathing and is therefor ve their own assigned WEL, here no specific short-term of g-term exposure should be u	HH definition of en present at a articles of a particular porne material ore av, Where all the relevant exposure limit is
iron(III) oxide	1309-37-1	TWA (inhalable dust)	10 mg/m3	GB EH40
Further information	fractions of ai a substance h concentration wide range of particle afte, l	rborne dust which wi nazardous to health i in air equal to or, Mo sizes. The behaviou nhalable dust approx	espirable dust and inhalable II be collected wh, The COS ncludes dust of any kind whe ost industrial dusts contain p ir, deposition and fate of any kimates to the fraction of airb uring breathing and is therefo	HH definition of en present at a articles of a particular orne material

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	dusts contain components that have their own assigned WEL, all the relevant limits should be complied with., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used			
	1309-37-1	TWA (Respirable dust)	4 mg/m3	GB EH40
Further information	For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected wh, The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or, Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle afte, Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore av, Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used			
General threshold limit value for dust		TWA (Inhalable)	10 mg/m3	GB EH40
Further information	The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or, Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used TWA 4 mg/m3 GB EH40			
		(Respirable)	4 mg/m3	GB EH40
Further information	The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or, Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used			

8.2 Exposure controls

Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

Personal protective equipment

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled and must meet the specifications of a standard EN/ISO/DIN. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Eye protection	:	Safety glasses
Hand protection	:	not required
Recommended Filter type:	:	Filter P 1 (acc. to DIN 3181) for solid particles of inert substances
Respiratory protection	:	required when dusts are generated.

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The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Environmental exposure controls

General advice : No special precautionary measures necessary.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	powder
Colour	gold
Odour	odourless
Odour Threshold	Not applicable
рН	4 - 9 at 100 g/l 20 °C (slurry)
Melting point	No information available.
Boiling point	No information available.
Flash point	Not applicable
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Vapour pressure	No information available.
Relative vapour density	No information available.
Density	2.8 - 3.0 g/cm3 at 20 °C
Solubility(ies)	No information available.
Water solubility	at 20 °C practically insoluble
Partition coefficient: n- octanol/water	No information available.
Auto-ignition temperature	No information available.

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Decomposition temperature			No information available.	
Viscosity, kinematic			No information available.	
Explosive properties			Not classified as explosive.	
Oxidizing properties		none		
9.2 Other data				
Bulk density	/		280 - 320 kg/m3	
Particle size)		Particle size 10 - 60 μm	

SECTION 10: Stability and reactivity

10.1 Reactivity

See section 10.3

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

10.3 Possibility of hazardous reactions

Hazardous reactions : no information available

10.4 Conditions to avoid

Conditions to avoid : no information available

10.5 Incompatible materials

Materials to avoid : no information available

10.6 Hazardous decomposition products

in the event of fire: See section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity	:	No data available
Acute inhalation toxicity	:	No data available
Acute dermal toxicity	:	No data available

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Components	<u>s:</u>		
Skin corrosi	on/irritation	ı	
<u>Product:</u> No data avail <u>Component</u> s			
No data avail			
Serious eye	damage/ey	e irritation	
<u>Product:</u> No data avail <u>Components</u>	<u>S:</u>		
No data avail			
Respiratory	or skin sen	Isitisation	
<u>Product:</u> No data avail	able		
<u>Components</u> No data avail			
Germ cell m	utagenicity		
<u>Product:</u> No data avail	able		
<u>Components</u> No data avail			
Carcinogeni	city		
<u>Product:</u> This informat	ion is not av	vailable.	
Components This informat	_	vailable.	
STOT - sing	le exposure	9	
<u>Product:</u> No data avail	able		
<u>Components</u> No data avail			
STOT - repe	ated expos	ure	
<u>Product:</u> No data avail	able		
<u>Components</u> No data avail			

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Repeated dose toxicity					
<u>Product:</u> No data av	ailable				
<u>Componer</u> No data av					
Aspiration	toxicity				
<u>Product:</u> No data av	ailable				
<u>Componer</u> No data av					
Experience	e with human	exposure			
<u>Product:</u> No data av	ailable				
<u>Componer</u> No data av					
11.2 Other info	rmation				
appropriate	ly.	nnot be excluded but are unlikely w ould be avoided as even inert dusts			

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functions. Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: Ecological information

12.1 Toxicity

Product: No data available

12.2 Persistence and degradability

Product:

No data available

12.3 Bioaccumulative potential

Product:

No data available

12.4 Mobility in soil

Product: No data available

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12.5 Results of	12.5 Results of PBT and vPvB assessment					
Product:						
Assessment :		to be either persistent, bio	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher			
12.6 Other adverse effects						
Product:						
Additional e information	•	: No ecological problems a is handled and used with	re to be expected when the product due care and attention.			
SECTION 13: Disposal considerations						

13.1 Waste treatment methods		
Product		Notice Directive on waste 2008/98/EC.
		Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.
		See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

SECTION 14: Transport information

Not classified as dangerous in the meaning of transport regulations.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture					
Regulation (EC) No 850/2004 on persistent organic pollutants	: Not applicable				
REACH - List of substances subject to authorisation (Annex XIV)	: Not applicable				
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	: Not applicable				
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: Not applicable				
Regulation (EC) No 649/2012 of the European	: Not applicable				

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	and the Coun angerous cher	cil concerning the export and nicals		
REACH - Restrictions on the manufacture, placing on : Not applicable the market and use of certain dangerous substances, preparations and articles (A				
Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. Not applicable				
Storage cla	SS	: 10 - 13		
15.2 Chemical safety assessment For this product a chemical safety assessment was not carried out.				

SECTION 16: Other information

Training advice

Provide adequate information, instruction and training for operators.

Key or legend to abbreviations and acronyms used in the safety data sheet

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AICS - Australian Inventory of Chemical Substances: ASTM - American Society for the Testing of Materials: bw - Body weight: CERCLA - Comprehensive Environmental Response. Compensation, and Liability Act: CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL -Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS -Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS -Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk: IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration: NO(A)EL - No Observed (Adverse) Effect Level: NOELR - No Observable Effect Loading Rate: NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Disclaimer

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.