



according to Regulation (EC) No. 1907/2006

# SolidFlow **PR101 Trasparent Oxide Red -** Product code **SF 235-X** Date of Revision: October 10<sup>th</sup> 2024 Revision N:1 Country/Language: ITA/EN

Trade name:       Transparent Oxide Red Preparation         Product code:       SF 235-X         CAS number:       1309-37./[51274-00-1]         INDEX number:       CI Pigment Red 101         EEC (EINECS) number:       215:168-2/257-098-5         Structural Formula:       Fe,0_/FeO(OH)         Note:       This substance/mixture contains nanoforms.         1.2       Relevant identified uses of the substance or mixture and uses advised against         Use of the Substance/Mixture:       Synthetic iron oxide mixed with anionic and non-ionic surfactants         1.3       Details of the supplier of the safety data sheet         Company       SIOF S.p.A.         Via Garibaldi 62       15068 - Pozzolo Formigaro (AL) Italy         Tel + 39 0143417781       VAT nr: IT 0016470069         Production sites:       1) Pozzolo Formigaro (AL) - Via Garibaldi 62         2) Verona - Via Pisano 53/A       Email address of the competent person:         siof@siof.it       Itale         Lassification of the substance or mixture       Classification of the substance or mixture         Classification of the substance or mixture       Note.         2.3       Other hazards       This substance/mixture contains no components considered to be eith persistent, bioaccumulative (vPVB) at levels of 0.1% or higher.         Ecological information: The s	1.1.	Product identifier	
Product code:       SF 235-X         CAS number:       1309-37-1/51274-00-1         INDEX number:       CI Pigment Red 101         EEC (EINECS) number:       215-168-2/257-098-5         Structural Formula:       Fe,0_/FeQO(H)         Note:       This substance/mixture contains nanoforms.         1.2       Relevant identified uses of the substance or mixture and uses advised against         Use of the substance/Mixture:       Synthetic iron oxide mixed with anionic and non-ionic surfactants         1.3       Details of the subplier of the safety data sheet         Company       SIOF S.p.A.         Via Garibaldi 62       15068 - Pozzolo Formigaro (AL.) Italy         Tel: 39 0143417781       VAT nr: IT 0016470069         Production sites:       1) Pozzolo Formigaro (AL.) - Via Garibaldi 62         2) Verona - Via Pisano 53/A       Email address of the competent person:         siof@siof.it       14         1.4       Emergency telephone number:       +39 0143417781         SECTION 2: Hazards identification       15         2.1       Label elements       None.         2.2       Label elements       None.         2.3       Other hazards       This substance/mixture contains no components considered to be eith persistent, bioaccumulative (vPVB) at levels of 0.1% or higher.	1.1.		Transparent Oxide Red Preparation
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#### SolidFlow PR101 Trasparent Oxide Red Product code SF 235-X Date of Revision: October 10<sup>th</sup> 2024 Revision N:1

Country/Language: ITA/EN

Toxicological information: The substance/mix does not contain components considered to have endocrine disrupting properties according to REACH article 57(f) or Commission Delegated regulation (UE) 2017/2100 of the Commission Regulation (UE) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information of 3.2 Mixtures	n ingredients
Remarks:	Non hazardous ingredients
Components:	
Name:	Transparent Iron Oxide Fe <sub>2</sub> O <sub>3</sub>
EEC( EINECS) number:	215-168-2
CAS number:	1309-37-1
Name:	Transparent Iron Oxide FeO(OH)
EEC( EINECS) number:	257-098-5
CAS number:	51274-00-1
Other components:	
Name:	Anionic and non-ionic additives

This substance/mixture contains nanoforms. As a precautionary measure, the D10 of the pigmentary preparation may be considered to approach the size of the primary particle. The nanoforms pertain to the pigment as a single component.

SEC	SECTION 4: First aid measures		
4.1	Description of first aid measure	es	
	General information:	Remove contaminated clothes.	
	After inhalation:	Supply fresh air and seek medical advice in case of complaints.	
	After skin contact:	Remove contaminated clothing. Wash off immediately with plenty of water	
		and soap.	
	After eye contact:	Rinse open eyes with plenty of water for at least 15 minutes.	
	After ingestion:	Rinse mouth with water and drink plenty of water.	
4.2	Most important symptoms and	effects, both acute and delayed	
	Symptoms:	No further information available. See Section 11 for more detailed information	
		on health effects and symptoms.	
4.3	Indication of any immediate me	edical attention and special treatment needed	
		Symptomatic treatment (decontamination, vital functions), no specific	
		antidote known. See Section 11 for more detailed information on health effects	
		and symptoms.	

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SECTION 5: Firefighting measures		
5.1	Extinguishing media	
	Suitable extinguishing media:	powder, foam.
	Unsuitable extinguishing media:	carbon dioxide (CO2)
5.2	Special hazards arising from the sub	stance or mixture
		In case of fire: hazardous vapors may be released.
		Development of fumes/aerosol.
5.3	Advice for firefighters	
	Protective equipment:	Wear self-contained respiratory protective device.
	Further information:	Collect contaminated extinguishing water and debris separately; avoid
		contamination of sewage system.

Revision N:1

SECT	ECTION 6: Accidental release measures		
6.1	Personal precautions, protective e	equipment and emergency procedures	
		Avoid formation of dust, wear protective clothing. (See section 8)	
6.2	Environmental precautions		
		Keep spills and cleaning runoff out of municipal sewers and open bodies of	
		water.	
6.3	Methods and material for containn	nent and cleaning up	
	Small spills:	Clean up with suitable appliance and dispose adequately.	
	Large spills:	Contain with dust binding material and dispose accordingly.	
		Avoid dust formation.	
6.4	Reference to other sections		
		For emergency phone numbers see Section 1. For the appropriate safety	
		measures see Section 8. For information regarding the treatment of waste	
		products see Section 13.	

SEC	SECTION 7: Handling and storage		
7.1	Precautions for safe handling		
	Instructions on safe handling:	Respiratory protection when handling without exhaust system.	
	Hygiene measures:	Wash hands before breaks and after work.	
7.2	Conditions for safe storage, includi	ng any incompatibilities	
	Storage conditions:		
		Store in tightly sealed containers in a dry room.	
	Information on fire and explosion p	rotection:	
		Avoid dust formation.	
7.3	Specific end use(s)		
		No data available.	

# SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

It does not contain substances with occupational exposure limit values.

according to Regulation (EC) No. 1907/2006





# SolidFlow PR101 Trasparent Oxide Red

Product code **SF 235-X** Date of Revision: October 10<sup>th</sup> 2024

Revision N:1

Country/Language: ITA/EN

8.2	Exposure controls	
	Technical protective measures:	Provide adequate ventilation in case of dust formation.
	Personal Protection:	
	General protective measures:	Protective clothing recommended due to the coloring effects of the produc
		The usual precautionary measures are to be adhered to when handlir chemicals.
		Protective clothing recommended due to the coloring effects of the produc Wash hands before breaks and after work.
	Respiratory protection:	In case of higher concentration or long-term exposure of dust: particle filte type P1 or FFP1, EN 143 or 149 (for solid particles).
	Hand protection:	Chemical protective gloves (EN 374 (Europe), F739 (US)).
		The manufacturer's directions for use should be observed because of the great diversity of types.
	Protective glove material:	Nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0 mm).
		Recommended: Protective index 6, > 480 min. of permeation time accord. E 374.
		Nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinyl chloride (0 mm).
		Suitability and durability of a glove is dependent on usage, e.g. frequency ar duration of contact, chemical resistance of glove material and dexteriar Always seek advice from glove suppliers.
	Eye protection:	Safety glasses with protective shields (EN 166).
	Body protection:	Protective clothing.
	Environmental precautions:	No special measures required.

SEC	TION 9: Physical and chemical proper	
9.1	Information on basic physical and c	hemical properties
	Appearance:	Granules
	Physical state:	Solid
	Colour:	Orange
	Odour:	Characteristic
	Solubility:	Insoluble in water. Insoluble in organic solvents. It disperses.
	Density:	~ 4 kg/l (pigment)
	Bulk density:	0.8 - 1.2 kg/l
	Decomposition temperature:	180 °C (pigment)
	Flammability:	Not applicable
9.2	Other information	

No data

SECTION 10: Stability and reactivity	
10.1 Reactivity	

Stable if used according to specifications.

according to Regulation (EC) No. 1907/2006





## SolidFlow PR101 Trasparent Oxide Red Product code **SF 235-X**

Date of Revision: October 10<sup>th</sup> 2024

Country/Language: ITA/EN

10.2	Chemical stability	
		Stable if used according to specifications.
10.3	Possibility of hazardous reactions	
	Hazardous reactions:	None if handled and stored according to specifications.
10.4	Conditions to avoid	
	Conditions to avoid:	Avoid formation of dust.
		Protect from heat.
	Thermal decomposition:	> 180 °C. Conversion to $Fe_2O_3$
10.5	Incompatible materials	<u> </u>
		Substance subject to catalytic decomposition caused by the powder, such as
		peroxides. Avoid contact with aluminum, calcium hypochlorite, idrazin, and
		ethyl oxide powders.
10.6	Hazardous decomposition products	
		Does not generate hazardous decomposition products in the standard use
		and storage conditions.

Revision N:1

# **SECTION 11: Toxicological information** 11.1 Information on toxicological effects Information on likely routes of exposure: Product: Acute toxicity LD50 Oral: > 5000 mg/kg (rat)

	Not toxic after single oral exposure.
LD50, dermal:	No information available.
LC50, inhalation:	No information available.
Primary effects:	
Irritant effect on skin:	Non irritating (rabbit; OECD 404)
Irritant effect on eyes:	Non-irritating to eyes (rabbit; OECD 405)
Inhalation:	No information available.
Ingestion:	No information available
Sensitization:	Non sensitizing.
Mutagenicity:	Product does not show a mutagenic effect in a test with bacteria.
Reproductive toxicity:	No information available.
Carcinogenicity:	No cancerogenic effect known.
Teratogenicity:	No information available.
Specific target organ toxicity (ST01	Γ):
	Single exposure: no organospecific toxicity expected.
	Repeated exposure: the substance may cause increase in lung mass and lung
	tissue  changes  after  repeated  inhalation.  The  effects  observed  were  reversible.
Additional toxicological information:	Aspiration hazard: not applicable
	By analogy with a product of similar composition.

according to Regulation (EC) No. 1907/2006





# SolidFlow PR101 Trasparent Oxide Red Product code **SF 235-X**

Date of Revision: October 10<sup>th</sup> 2024

Country/Language: ITA/EN

12.1	Toxicity	
	Toxicity to fish:	LC0:>1000 mg/l (48h, Leuciscus idus)
	Daphnia toxicity:	LC50:>100 mg/l (48h, Daphnia magna; OECD 202)
	Bacteria toxicity:	EC50: > 10000 mg/l (3h, active sludge)
	Algae toxicity:	Not determined.
12.2	Persistence and degradability	
		The product in virtually insoluble in water and can thus be separated from
		water mechanically in suitable effluent treatment plants.
12.3	Bioaccumulative potential	Bioaccumulation is not to be expected. The product settles on the sedimen
		due to its high density and stratification.
12.4	Mobility in soil	Not expected to absorb on soil.
12.5	Results of PBT and vPvB assessment	
		This substance/mixture contains no components considered to be eithe
		persistent, bioaccumulative and toxic (PBT), or very persistent and very
		bioaccumulative (vPvB) at levels of 0.1% or higher.
12.6	Endocrine disrupting properties	
	Water hazard class:	Do not let product contaminate ground water, waterways or sewage system
	<u>Behaviour in sewage systems:</u>	
	Further ecological effects:	The product does not contain any substances which can deplete the ozon
		layer, according to Section I of EC-Directive 2037/2000/EC.
		The product contains iron.
		Result based on a product with similar composition.

Revision N:1

SECTION 13: Disposal considerations					
13.1	Waste treatment methods				
	Product:	In accordance with current regulations, product may be taken to a waste disposal site or incineration plant, after consultation with site operator and/or with the responsible authority.			
	European Waste Code (EWC):				
	Uncleaned packaging:	Uncontaminated packaging may be recycled.			
		Packaging may be disposed of in the same manner as the product. Classified as non-hazardous waste.			

SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / AND				
	transport on road, rails, sea and air.			
14.2 UN proper shipping name	The product is a non-hazardous material for both national and international			
	transport on road, rails, sea and air.			
14.3 Transport hazard class(es)	No danger sign is required for the transport of this product.			

according to Regulation (EC) No. 1907/2006





# SolidFlow PR101 Trasparent Oxide Red

Product code SF 235-X Date of Revision: October 10<sup>th</sup> 2024

Revision N:1

Country/Language: ITA/EN

14.4 Packing group	The product is a non-hazardous material for both national and internationa	
	transport on road, rails, sea and air.	
14.5 Environmental hazards	The product is a non-hazardous material for both national and international	
	transport on road, rails, sea and air.	
14.6 Special precautions for user	None.	

14.7 Marine Transport in bulk in accordance with IMO acts

Not applicable for product as supplied.

#### **SECTION 15: Regulatory information**

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture REACH- Restrictions in production, entry in the market, and use of such substances, mixtures and hazardous products:

Not applicable

International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors: Not applicable

REACH- list of substances extremely problematic, candidates for authorization (Article 59)This product does not contain extremely problematic substances. Regulation (CE) n1907/2006 REACH article 57:

Not applicable

Regulation (CE) n1005/2009 of substances that reduce the ozone layer:

Not applicable Regulation (CE)n2019/1021 relative persistent organic pollutants:

Not applicable

Regulation (CE)n111/2005 of the Council for the control of trade of drug precursors between the European Union and third countries:

The product is not illegal/under restrictions

Regulation (EU) 2019/1021 on persistent organic pollu-tants (recast):

Not applicable.

Regulation (CE) n 649/2012 of the European Parliament on the exportation and importation of hazardous chemical substances:

Not applicable REACH - List of substances subject to authorization (XIV)

Not applicable.

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.

Regulation (EC) no.1907/2006 of the European Parliament and of the Council, of 18 December 2006 concerning registration, evaluation, authorization and restriction of chemical substances (REACH), and subsequent amendments. Commission Regulation no. 453/2010 on Safety Data Sheets.

Regulation (EC) no. 1272/2008 relating to the classification, labeling and packaging of substances and mixtures.

**Other legislations:** 

Legislative Decree 9 April 2008, n°81 (Implementation of article 1 of Law 3 August 2007, n°123, regarding protection of health and safety in the workplace) and subsequent amendments.

according to Regulation (EC) No. 1907/2006





SolidFlow <b>PR101 Trasparent Ox</b> Product code <b>SF 235-X</b>	ide Red			
ate of Revision: October 10 <sup>th</sup> 2024	Revision N: 1	Country/Language: ITA/EN		
	subseque	e Decree 3 April 2006, n°152, (environmental regulations) and ntamendments.LegislativeDecree6February2009, n°21(Regulation nting the provisions of the Regulation (EC) n648/2004 relative to s.		
15.2 Chemical safety assessment	AL			
	Not applic	cable.		
SECTION 16: Other information				
Issued by:	Responsit	Responsible for Health, Safety, and Environment		
Issue date:	October 10 <sup>th</sup> , 2024			
Revision N:	1			
More information:				
	classificat The inforr	y data sheet is drawn up in compliance with in force the regulations in tion and labeling matter on the revision date indicated in the header. mation provided on this SAFETY DATA SHEET corresponds to the nur knowledge and knowledge our experience of the product, and it austive.		
	combinati does it ex provisions	to the product as is, compliant with specifications. In case of ions or mixtures, make sure that no new danger can arise. In no case compt the user of the product from complying with all legislative s, administrative and regulatory issues relating to the product, and safety at work.		