



according to Regulation (EC) No. 1907/2006

# SolidFlow **PY42 Yellow Iron Oxide -** Product code **SF 116-X**

Date of Revision: October 10<sup>th</sup> 2024 Revision N: 1 Country/Language: ITA/EN

1.1.	Product identifier	
	Trade name:	Yellow Iron Oxide Preparation
	Product code:	SF 116-X
	CAS number:	51274-00-1
	INDEX number:	CI Pigment Yellow 42
	EEC (EINECS) number:	257-098-5
	Structural Formula:	FeO(OH)
1.2		stance 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	
-	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 per	
		siof@siof.it
1.4.	Emergency telephone number	
	Emergency telephone number:	+39 0143417781
SEC	TION 2: Hazards identification	
2.1.	Classification of the substance or m	ixture
	Classification (DECUILATION (EC) No	1272 (2008)
	Classification (REGULATION (EC) No	12/2/2008)
	classification (REGOLATION (EC) No	Not a hazardous substance or mixture.
2.2.	Label elements	
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	Label elements Labelling (REGULATION (EC) No 127	Not a hazardous substance or mixture. <b>2/2008)</b> Not a hazardous substance or mixture.
	Label elements Labelling (REGULATION (EC) No 127	Not a hazardous substance or mixture.  2/2008) Not a hazardous substance or mixture.  This substance/mixture contains no components considered to be eith
	Label elements Labelling (REGULATION (EC) No 127	Not a hazardous substance or mixture.
	Label elements Labelling (REGULATION (EC) No 127	Not a hazardous substance or mixture.         2/2008)         Not a hazardous substance or mixture.         This substance/mixture contains no components considered to be eith persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
	Label elements Labelling (REGULATION (EC) No 127	Not a hazardous substance or mixture.         2/2008)         Not a hazardous substance or mixture.         This substance/mixture contains no components considered to be eith persistent, bioaccumulative and toxic (PBT), or very persistent and verbioaccumulative (vPvB) at levels of 0.1% or higher.         Ecological information: The substance/mix does not contain components
	Label elements Labelling (REGULATION (EC) No 127	Not a hazardous substance or mixture.  2/2008) Not a hazardous substance or mixture.  This substance/mixture contains no components considered to be eith persistent, bioaccumulative and toxic (PBT), or very persistent and very

according to Regulation (EC) No. 1907/2006





#### SolidFlow PY42 Yellow Iron Oxide Product code SF 116-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 on ingredients			
3.1	1 Substances		
	Remarks:	Non hazardous ingredients	
	Components:		
	Name:	Iron Oxide FeO(OH)	
	EEC( EINECS) number:	257-098-5	
	CAS number:	51274-00-1	
	Other components:	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.

SECTION 4: First aid measures				
4.1	Description of first aid measures			
	General advice:	Consult a physician.		
		Do not leave the victim unattended.		
		Move out of dangerous area.		
		Show this safety data sheet to the doctor in attendance.		
	Protection of first-aiders:	No action shall be taken involving any personal risk or without suitable		
		training.		
C C		Remove victim to fresh air and keep at rest in a position comfortable for		
		breathing.		
		If not breathing, if breathing is irregular or if respiratory arrest occurs, provide		
		artificial respiration or oxygen by trained personnel.		
		If unconscious, place in recovery position and get medical attention		
immedia		immediately.		
		Maintain open airway.		
		Loosen tight clothing such as a collar, tie, belt or waistband.		
		If symptoms persist, call a physician.		
	In case of skin contact:	Wash off with plenty of water.		
		Continue to rinse for at least 10 minutes.		
		Take off contaminated clothing and shoes immediately.		
		Wash contaminated clothing before re-use.		
		C C		

according to Regulation (EC) No. 1907/2006





SolidFlow <b>PY42 Yellow Iron</b>	Oxide	
Product code <b>SF 116-X</b> Date of Revision: October 10 <sup>th</sup> 2024	Revision N:1	Country/Language: ITA/EN
	, ,	ms persist, call a physician.
In case of eye contact:		ely flush eyes with plenty of water, occasionally lifting the upper and
	lower eye	
		to rinse for at least 10 minutes.
		wide open while rinsing.
		ontact lenses.
		nharmed eye.
	-	ation persists, consult a specialist.
		al attention if symptoms appear.
If swallowed :		ith with water.
	DO NOT i control ce	nduce vomiting unless directed to do so by a physician or poison nter.
	If vomitin the lungs.	g occurs, the head should be kept low so that vomit does not enter
	0	e anything by mouth to an unconscious person.
	0	scious, place in recovery position and get medical attention
	immediat	
	Maintain	ppen airway.
		ght clothing such as a collar, tie, belt or waistband.
	lfsympto	ms persist, call a physician.
4.2 Most important symptoms a		
Symptoms:	See Secti	on 11 for more detailed information on health effects and symptoms.
Risks:	See Secti	on 11 for more detailed information on health effects and symptoms.

Indication of any immediate medical attention and special treatment needed 4.3 **Treatment:** Treat symptomatically.

SEC	TION 5: Firefighting measures		
5.1	Extinguishing media		
	Suitable extinguishing media:	In case of fire, use water spray (fog), foam, dry chemical or CO2.	
	Unsuitable extinguishing media:	None known.	
5.2	Special hazards arising from the substa	ance or mixture	
	Specific hazards during fire-fighting:	Do not allow run-off from fire fighting to enter drains or water courses.	
	Hazardous combustion prod-ucts:	The product itself does not burn.	
5.3	Advice for firefighters		
	Special protective equipment for firefig	ghters:	
self-contained breathing a		Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.	
	Further information:	Standard procedure for chemical fires.	
		Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.	
		No action shall be taken involving any personal risk or without suitable training Use extinguishing measures that are appropriate to local cir-cumstances and the surrounding environment.	

according to Regulation (EC) No. 1907/2006





# SolidFlow PY42 Yellow Iron Oxide Product code SF 116-X

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

Revision N:1

Country/Language: ITA/EN

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6.1	Personal precautions, protective equipment and emergency procedures		
	Personal precautions:	No action shall be taken involving any personal risk or without suitable training	
		Keep unnecessary and unprotected personnel from entering.	
		Do not touch or walk through spilt material.	
		Avoid breathing dust.	
		Provide adequate ventilation.	
		Avoid dust formation.	
		In case of inadequate ventilation wear respiratory protection.	
		Use personal protective equipment.	
6.2	Environmental precautions		
	Environmental precautions:	Avoid dispersal of spilt material and runoff and contact with soil, waterways,	
		drains and sewers.	
		If the product contaminates rivers and lakes or drains inform respective	
		authorities.	
6.3	Methods and material for containm	nent and cleaning up	
	Methods for cleaning up:	Pick up and arrange disposal without creating dust.	
		Sweep up and shovel.	
		Keep in suitable, closed containers for disposal.	
		Move containers from spill area.	
		Stop leak if safe to do so.	
		Dispose of wastes in an approved waste disposal facility.	
6.4	Reference to other sections		
		For personal protection see section 8., For disposal considerations see	
		section 13.	

SECTION 7: Handling and storage				
7.1	1 Precautions for safe handling			
	Advice on safe handling:	For personal protection see section 8.		
		Avoid contact with skin and eyes.		
	Provide sufficient air exchange and/or exhaust in work rooms.			
	In case of insufficient ventilation, wear suitable respiratory equipment.			
		Keep in the original container or an approved alternative made from a		
		compatible material, kept tightly closed when not in use.		
	Dispose of rinse water in accordance with local and national regulations.			
	Advice on protection against fire and explosion:			
		Provide appropriate exhaust ventilation at places where dust is formed.		

SAFETY DATA SHEET IRON OXIDE YELLOW PREPARATION according to Regulation (EC) No. 1907/2006				
SolidFlow <b>PY42 Yellow Iron Oxid</b> Product code <b>SF 116-X</b> Date of Revision: October 10 <sup>th</sup> 2024	e Revision N:1 Country / Language: ITA / EN			
Hygiene measures:	General industrial hygiene practice. When using do not eat, drink or smoke. Wash face, hands and any exposed skin thoroughly after handling. Wash contami-nated clothing before reusing. Remove contaminated clothing and protective equipment before entering eating areas.			
7.2 Conditions for safe storage, inclu	ling any incompatibilities			
Requirements for storage areas a	<b>nd containers:</b> Store in accordance with local regulations. Store in original container protected			
	from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Sec-tion 10) and food and drink. Keep containers tightly closed in a dry, cool and well-ventilated place. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.			
Advice on common storage:	No materials to be especially mentioned.			
Storage class (TRGS 510):	13, Non Combustible Solids			
	ability: Keep in a dry place. No decomposition if stored and applied as directed.			
7.3 Specific end use(s)				
Specific use(s):	No data available.			

8.1	Control parameters		
		Contains no substances with occupational exposure limit values.	
8.2	Exposure controls		
	Engineering measures:	This information is not available.	
	Personal protective equipment:		
	Eye protection:	Safety glasses with side-shields conforming to EN166	
	Hand protection Wearing time:	< 60 min	
	Material:	Leather gloves	
	Remarks:	The suitability for a specific workplace should be discussed with the producer	
		of the protective gloves. After contamination with product change the glove	
		immediately and dispose of them according to relevant national and loca	
		regulations.	
		The suitability for a specific workplace should be discussed with the producer	
		of the protective gloves. After contamination with product change the glove	
		immediately and dispose of them according to relevant national and local	
		regulations.	
	Skin and body protection:	Impervious clothing.	
		Choose body protection in relation to its type, to the concentration and amoun	
		of dangerous substances, and to the specific work-place.	
		Additional body garments should be used (e.g. sleevelets, apron, disposable	
		suit etc.), based on the task being performed.	
	<b>Respiratory protection:</b>	Dust-protection mask if there is a risk of dust formation.	
	Filter type:	P1 filter.	

according to Regulation (EC) No. 1907/2006





# SolidFlow PY42 Yellow Iron Oxide

# Product code SF 116-X

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

Revision N:1

Country/Language: ITA/EN

**Environmental exposure controls:** Water:

The product should not be allowed to enter drains, water courses or the soil.

9.1 In	Information on basic physical and chemical properties	
Α	ppearance:	granules
Physical state:solidColour:yellow		solid
		yellow
0	)dour:	characteristic
S	olubility:	Insoluble in water. Insoluble in organic solvents. It disperses.
D	ensity:	~ 4 kg/l (pigment)
B	Bulk density:	0.8-1.2 kg/l
D	ecomposition temperature:	180 °C (pigment)
н	lazardous reactions:	not applicable

#### 9.2 Other information

No data

SECTION 10: Stability and reactivity		
Reactivity		
	No specific test data related to reactivity available for this product or its	
	ingredients.	
Chemical stability		
	The product is chemically stable.	
Possibility of hazardous reactions		
Hazardous reactions:	No dangerous reaction known under conditions of normal use.	
Conditions to avoid		
Conditions to avoid:	From approx. 180 °C conversion into $Fe_2O_3$ .	
Incompatible materials		
	Substance subject to catalytic decomposition caused by the powder, such as	
	peroxides. Avoid contact with aluminum, calcium hypochlorite, idrazin, and	
	ethyl oxide powders.	
Hazardous decomposition products		
Hazardous decomposition products:	No decomposition if stored and applied as directed.	
	Reactivity Chemical stability Possibility of hazardous reactions Hazardous reactions: Conditions to avoid Conditions to avoid: Incompatible materials Hazardous decomposition products	

<b>SECTION 11: T</b>	oxicological	linformation
	Succession	

#### Information on hazard classes as defined in Regulation (EC) No 1272/2008 11.1

Information on likely routes of exposure: Inhalation

Eye contact

Skin contact

according to Regulation (EC) No. 1907/2006





SolidFlow <b>PY42 Yellow Iron Oxid</b> Product code <b>SF 116-X</b>	e	
Date of Revision: October 10 <sup>th</sup> 2024	Revision N:1	Country/Language: ITA/EN
Acute toxicity Product:	Not classi	fied based on available information.
Acute oral toxicity:		, male): > 10.000 mg/kg iformation available.
Acute inhalation toxicity:	LC50 (Rat Exposure	, male and female): > 5 mg/l time: 4 h
		sphere: dust/mist )ECD Test Guideline 403
		ent: The substance or mixture has no acute inhalation toxicity Dosage caused no mortality Test results on an analogous product
Skin corrosion/irritation: <u>Product:</u>	Not classi	fied based on available information
Species:	Rabbit	
Exposure time:	24 h	
Result:	No skin irr	itation.
GLP:	No.	
Serious eye damage/eye irritation <u>Product:</u>	Not classi	fied based on available information.
Species:	Rabbit.	
Result:	No eye irri	itation.
GLP:	No.	
Respiratory or skin sensitisation		
Skin sensitisation	Not classi	fied based on available information.
Respiratory sensitisation Product:	Not classi	fied based on available information.
Test Type:	Maureror	otimisation test
Exposure routes:	Skin conta	
Species:	Guinea pig	
Result:		, use sensitisation on laboratory animals.
GLP:	no	,
Germ cell mutagenicity: <u>Product:</u>	Not classi	fied based on available information.
Genotoxicity in vitro:	Test Type:	Ames test
	Test syste	em: Salmonella typhimurium
	Metabolic	activation: with and without metabolic activation
	Method: C	ECD Test Guideline 471

according to Regulation (EC) No. 1907/2006





SolidFlow PY42 Yellow Iron Oxide Product code SF 116-X Date of Revision: October 10<sup>th</sup> 2024 Revision N:1

Country/Language: ITA/EN

Result: negative GLP: No information available. Remarks: Test results on an analogous product

Test Type: Chromosome aberration test in vitro Test system: Chinese hamster fibroblasts Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 **Result:** negative GLP: yes Remarks: Test results on an analogous product

Test Type: In vitro mammalian cell gene mutation test Test system: Chinese hamster fibroblasts Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative GLP: yes Remarks: Test results on an analogous product

Not classified based on available information. Not classified based on available information. Not classified based on available information. Not classified based on available information.

STOT - repeated exposure **Repeated dose toxicity** Product: **Species:** NOAEL: **Application Route: Exposure time:** Number of exposures: Dose: Method: GLP: **Remarks:** 

Carcinogenicity

**Reproductive toxicity** STOT - single exposure

> **Species:** NOAEL: **Application Route: Exposure time:** Number of exposures: Dose: Method:

Rat, male and female  $4,7 \, \text{mg/m}^{3}$ inhalation (dust/mist/fume) 90 d 6hours/day 4,7 - 16,6 - 52,1 mg/m<sup>3</sup> OECD Test Guideline 413 yes Subchronic toxicity Test results on an analogous product

Rat, male 10,1 mg/m<sup>3</sup> inhalation (dust/mist/fume) 28 d 6hours/day 10,1-19,7-45,6-95,8 mg/m<sup>3</sup> OECD Test Guideline 412

SolidFlow PY42 Yellow Iron Oxide Product code SF 116-X Date of Revision: October 10 <sup>th</sup> 2024       Revision N:1       Country/Language: ITA/EN         GLP:       yes Remarks:       Subacute toxicity Test results on an analogous product         Aspiration toxicity       Not classified based on available information.         11.2       Information on other hazards Endocrine disrupting properties: Product:       The substance/mixture does not contain components consid-ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Date of Revision: October 10 <sup>th</sup> 2024       Revision N:1       Country/Language: ITA/EN         GLP:       yes         Remarks:       Subacute toxicity Test results on an analogous product         Aspiration toxicity       Not classified based on available information.         11.2       Information on other hazards         Endocrine disrupting properties:       Product:         Assessment:       The substance/mixture does not contain components consid-ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation
GLP:       yes         Remarks:       Subacute toxicity Test results on an analogous product         Aspiration toxicity       Not classified based on available information.         11.2       Information on other hazards         Endocrine disrupting properties:       Product:         Assessment:       The substance/mixture does not contain components consid-ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation
Remarks:       Subacute toxicity Test results on an analogous product         Aspiration toxicity       Not classified based on available information.         11.2       Information on other hazards         Endocrine disrupting properties:       Product:         Assessment:       The substance/mixture does not contain components consid-ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation
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Aspiration toxicity       Not classified based on available information.         11.2       Information on other hazards         Endocrine disrupting properties:       Product:         Assessment:       The substance/mixture does not contain components consid-ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation
Aspiration toxicity       Not classified based on available information.         11.2       Information on other hazards         Endocrine disrupting properties:       Product:         Assessment:       The substance/mixture does not contain components consid-ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation
11.2 Information on other hazards         Endocrine disrupting properties:         Product:         Assessment:         The substance/mixture does not contain components consid-ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation
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Product:       Assessment:       The substance/mixture does not contain components consid-ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation
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endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation
Commission Delegated regulation (EU) 2017/2100 or Commission Regulation
Further information
Product:
Repeated or prolonged inhalation of dust may lead to chronic respiratory
irritation.
SECTION 12: Ecological information
12.1 Toxicity
Toxicity to fish: LC50 (Danio rerio (zebra fish)): > 100.000 mg/l
Exposure time: 96 h
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 203
GLP: no
Remarks: Fresh water nominal concentration
Toxicity to daphnia and other aquatic invertebrates:
LC50 (Daphnia magna (Water flea)): >= 100 mg/l
Exposure time: 48 h
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 202
GLP: yes
Remarks: Fresh water nominal concentration
Renarks. Freshwater noninateoricentation
Toxicity to microorganisms: EC50 (activated sludge): >= 10.000 mg/l
Ecso (decivated statege). Filosoon ing to End point: Respiration inhibition
Exposure time: 3h
Analytical monitoring: no
Method: ISO 8192
GLP: no
Remarks: Fresh water Test results on an analogous product

according to Regulation (EC) No. 1907/2006





ate of	Revision: October 10 <sup>th</sup> 2024 Rev	rision N:1 Country/Language: ITA/EN	
12.2	Persistence and degradability		
	Product:		
	Biodegradability:	Result: The methods for determining the biological degradability are no	
		applicable to inorganic substances.	
12.3	Bioaccumulative potential	No data available	
12.4	Mobility in soil	No data available	
12.5	Results of PBT and vPvB assessment		
	Product:		
	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.	
		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	Endocrine disrupting properties		
12.0	Product:		
	Assessment:	The substance/mixture does not contain components considered to have	
	Abbebbilente	endocrine disrupting properties according to REACH Article 57(f) o	
		Commission Delegated regulation (EU) 2017/2100 or Commission Regulation	
		(EU) 2018/605 at levels of 0.1% or higher.	
12.7	Other adverse effects		
	Product:		
	Adsorbed organic bound halogens (AOX):		
		Remarks: The product does not contain organically bounded halogens whicl	
		could lead to an AOX value in waste water.	
	Additional ecological infor-mation:	Ecotoxicological data are not available.	
	_	No known significant effects or critical hazards.	

SECTION 13: Disposal considerati	UIIS
13.1 Waste treatment methods	
Product:	The generation of waste should be avoided or minimised wherever possible
	Where possible recycling is preferred to disposal or incineration.
	Product residues and uncleaned empty containers should be packaged, sealed
	labelled, and disposed of or recycled according to relevant national and loca
	regulations.
	When uncleaned empty containers are passed on, the recipient must be warned
	of any possible hazard that may be caused by residues.
	Wastedisposal should be in accordance with existing federal state, provincia
	and or local environmental controls
	Dispose of as hazardous waste in compliance with local and nationa
	regulations.
	Do not contaminate ponds, waterways or ditches with chemi-cal or use
	container.
	The product should not be allowed to enter drains, water courses or the soi

according to Regulation (EC) No. 1907/2006





SolidFlow <b>PY42 Yellow Iron Ox</b> Product code <b>SF 116-X</b> Date of Revision: October 10 <sup>th</sup> 2024	<b>ide</b> Revision N: 1	Country/Language: ITA/EN
	Waste Lis It is amor specific to List (EWL) Within the	sal within the EC, the appropriate code according to the European t (EWL) should be used. Ing the tasks of the polluter to assign the waste to waste codes o industrial sectors and processes according to the European Waste ). In present knowledge of the supplier, this product is not regarded as as waste, as defined by EU Directive 2008/98/EC
Contaminated packaging:	Dispose o Empty co	naining contents. f as unused product. ntainers should be taken to an approved waste handling site for or disposal.

SECTION 14: Transport information	
14.1 UN number or ID number	Not regulated as a dangerous good.
14.2 UN proper shipping name	Not regulated as a dangerous good.
14.3 Transport hazard class(es)	Not regulated as a dangerous good.
14.4 Packing group	Not regulated as a dangerous good.
14.5 Environmental hazards	Not regulated as a dangerous good.
14.6 Special precautions for user	
Hazard and Handling Notes:	Not dangerous cargo.
	Keep separated from foodstuffs.

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

Not applicable	
International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors:	
Not applicable	
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59):	
This product does not contain substances of very high concern (Regulation	
(EC) No 1907/2006 (REACH), Article 57).	
Regulation (EC) No 1005/2009 on substances that de-plete the ozone layer:	
Not applicable	
Regulation (EU) 2019/1021 on persistent organic pollu-tants (recast):	
Not applicable.	
Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third	
countries in drug precursors:	

Neither banned nor restricted

according to Regulation (EC) No. 1907/2006





# SolidFlow PY42 Yellow Iron Oxide

Product code SF 116-X

15.2

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

Revision N:1

Country/Language: ITA/EN

Regulation (EC) No 649/2012 of the European Parlia-ment and the Council concerning the export and import of dangerous chemicals: NI 1 1 1 1

	Not applicable
REACH - List of substances subject to a	authorisation (Annex XIV):
	Not applicable
Seveso III: Directive 2012/18/EU of t	he European Parliament and of the Council on the control of major-accident
hazards involving dangerous substanc	es.
	Not applicable
Water hazard class (Germa-ny):	
	nwg not water endangering
	Code Number: 752
	Remarks: Classification according to AwSV, Annex 1 (4)
	Classification according to AwSV, Annex 1 (4)
Chemical safety assessment	

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information	
Issued by:	Responsible for Health, Safety, and Environment
Issue date:	October 10 <sup>th</sup> , 2024
Revision N:	1
More information:	
	This safety data sheet is drawn up in compliance with in force the regulations ir classification and labeling matter on the revision date indicated in the header The information provided on this SAFETY DATA SHEET corresponds to the state of our knowledge and knowledge our experience of the product, and it is not exhaustive.
	It applies to the product as is, compliant with specifications. In case of combinations or mixtures, make sure that no new danger can arise. In no case does it exempt the user of the product from complying with all legislative provisions, administrative and regulatory issues relating to the product, hygiene and safety at work.