

SAFETY DATA SHEET PR112 PREPARATION

according to Regulation (EC) No. 1907/2006

SolidFlow **PR112 Naphthol Red AS-D** - Product code **SF 350-X**

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

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

1.1. Product identifier

Trade name:	PR-112 preparation
Product code:	SF 350-X
CAS number:	6535-46-2
INDEX number:	CI Pigment Red 112
EEC (EINECS) number:	229-440-3
Structural Formula:	Naphthalenecarboxamide,3-hydroxy-N-(2-methylphenyl)-4-[(2,4,5-trichlorophenyl)azo]-

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

1.4. Emergency telephone number

Emergency telephone number:	+39 0143417781
-----------------------------	----------------

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The product is classified as dangerous according to the provisions of Regulation (EC) 1272/2008 (CLP) (and subsequent amendments and adjustments). The product therefore requires a safety data sheet compliant with the provisions of Regulation (EU) 2020/878.

Any additional information regarding risks to health and/or the environment is provided in sections 11 and 12 of this sheet.

Classification and hazard statements:

Hazardous to the aquatic environment, chronic toxicity, category 2	H411	Toxic to aquatic life with long lasting effects
--	------	---

SolidFlow **PR112 Naphthol Red AS-D**

Product code **SF 350-X**

Date of Revision: October 10th 2024

Revision N: 1

Country / Language: ITA / EN

2.2. Label elements

Hazard labelling according to Regulation (EC) 1272/2008 (CLP) and subsequent amendments and adjustments.

Hazard pictograms:



Warnings:

Hazard statements:

H411

Toxic to aquatic life with long lasting effects.

Precautionary statements:

P391

P273 Avoid release to the environment.

P501

Collect spillage.

Dispose of contents/container to an approved waste disposal site in accordance with national, provincial and local regulations.

Contains:

2-Naphthalenecarboxamide,3-hydroxy-N-(2-methylphenyl)-4-[(2,4,5-trichlorophenyl)azo]-

EEC (EINECS) number:

229-440-3

2.3. Other hazards

The substance does not meet the criteria for PBT or vPvB in accordance with Annex XIII of the Regulation (EC) No. 1907/2006.

The substance does not have endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

3.1 Substances

Components:

Name: Naphthol Red AS-D

Identification: 2-Naphthalenecarboxamide,3-hydroxy-N-(2-methylphenyl)-4-[(2,4,5-trichlorophenyl)azo]-

EEC (EINECS) number: 229-440-3

CAS number: 6535-46-2

REACH 01-2119456820-39

Classification 1272/2008 (CLP):

INDEX: Aquatic Chronic 2 H411

The full text of the hazard statements (H) is reported in section 16 of the sheet.

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.

SolidFlow **PR112 Naphthol Red AS-D**

Product code **SF 350-X**

Date of Revision: October 10th 2024

Revision N: 1

Country / Language: ITA / EN

SECTION 4: First aid measures

4.1 Description of first aid measures

	<p>No effects are expected that require the implementation of special first aid measures. The following information is a practical guide to correct behavior in the event of contact with a chemical product, even if not dangerous.</p> <p>In case of doubt or in the presence of symptoms, contact a doctor and show him this document.</p> <p>In case of more serious symptoms, call 118 to obtain immediate medical assistance.</p>
Eyes:	<p>Wash immediately and thoroughly with running water. In case of symptoms, consult a doctor.</p>
Skin:	<p>Wash thoroughly with water. In case of symptoms, consult a doctor.</p>
Ingestion:	<p>Do not induce vomiting unless expressly authorized by the doctor. Do not administer anything orally if the subject is unconscious. Consult a doctor.</p>
Inhalation:	<p>Move the subject to fresh air. In case of symptoms, consult a doctor.</p>
Protection of rescuers:	

It is good practice for the rescuer who provides assistance to a person who has been exposed to a chemical substance or mixture to wear personal protective equipment. The nature of such protection depends on the dangerousness of the substance or mixture, the method of exposure and the extent of contamination. In the absence of other more specific indications, it is recommended to use disposable gloves in the event of possible contact with biological fluids. For the type of PPE suitable for the characteristics of the substance or mixture, refer to section 8.

4.2 Most important symptoms and effects, both acute and delayed

There are no known incidents of health damage attributable to the product.

4.3 Indication of any immediate medical attention and special treatment needed

In case of symptoms, whether acute or delayed, seek medical advice.
Means to be available at the workplace for specific and immediate treatment.
Running water for skin and eye washing.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:	carbon dioxide (CO ₂), powder, foam, hazy water.
Unsuitable extinguishing media:	Strong water jet.

5.2 Special hazards arising from the substance or mixture

Specific hazards:	<p>In case of fire, avoid breathing combustion products. The product is combustible and, when the dust is dispersed in the air in sufficient concentrations and in the presence of an ignition source, it can form explosive mixtures with air. The fire can develop or be further fed by the solid, possibly leaked from the container, when it reaches high temperatures or by contact with ignition sources.</p>
--------------------------	---

SolidFlow **PR112 Naphthol Red AS-D**

Product code **SF 350-X**

Date of Revision: October 10th 2024

Revision N: 1

Country / Language: ITA / EN

5.3 Advice for firefighters

Firefighting instructions:

Cool containers with water jets to prevent product decomposition and the development of substances potentially hazardous to health. Always wear complete fire protection equipment. Collect extinguishing water that must not be discharged into drains. Dispose of contaminated fire extinguishing water and fire residue according to current regulations.

Protection during firefighting:

Normal firefighting clothing, such as open-circuit compressed air breathing apparatus (EN 137), flame-retardant overalls (EN469), flame-retardant gloves (EN 659) and firefighter's boots (HO A29 or A30).

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Avoid dust formation by spraying the product with water if there are no contraindications.

Wear appropriate protective equipment (including personal protective equipment as per section 8 of the safety data sheet) to prevent contamination of the skin, eyes and personal clothing. These indications are valid both for workers and for emergency interventions.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. Notify authorities if product enters sewers or public waters.

6.3 Methods and material for containment and cleaning up

Collect the spilled product and place it in containers for recovery or disposal. Eliminate the residue with water jets if there are no contraindications.

Provide sufficient ventilation of the area affected by the leak. Assess the compatibility of the container to be used with the product, checking section 10. Disposal of the contaminated material must be carried out in accordance with the provisions of point 13.

6.4 Reference to other sections

Concerning personal protective equipment to use, see section 8. Disposal: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handle the product after consulting all other sections of this safety data sheet. Avoid dispersion of the product in the environment. Do not eat, drink or smoke during use. Wash hands after use.

7.2 Conditions for safe storage, including any incompatibilities

Keep the product in clearly labeled containers. Keep containers closed, in a well-ventilated place, away from direct sunlight.

7.3 Specific end use(s)

No data.

SolidFlow **PR112 Naphthol Red AS-D**

Product code **SF 350-X**

Date of Revision: October 10th 2024

Revision N: 1

Country / Language: ITA / EN

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

2-Naphthalenecarboxamide,3-hydroxy-N-(2-methylphenyl)-4-
[(2,4,5-trichlorophenyl)azo]-

Predicted no-effect concentration - PNEC

Reference value in fresh water 0,085 mg/l

Reference value in marine water 0,009 mg/l

Reference value for fresh water sediment

2,182 mg/kg

Reference value for marine water sediment

218 mg/kg

Reference value for marine water, intermittent release

0,027 mg/l

Reference value for fresh water, intermittent release

0,003 mg/l

Reference value for the terrestrial compartment

10 mg/kg

VND = hazard identified but no DNEL/PNEC available; NEA = no exposure expected; NPI = no hazard identified; LOW = low danger; MED = medium danger; HIGH = high danger.

It is recommended to consider in the risk assessment process the occupational exposure limit values provided by ACGIH for dusts not otherwise classified (PNOC respirable fraction: 3 mg/m³; PNOC inhalable fraction: 10 mg/m³). If these limits are exceeded, it is recommended to use a type P filter whose class (1, 2 or 3) must be chosen based on the outcome of the risk assessment. The values indicated above do not constitute a TLV, but guide values, to be used for particles that do not have their own TLV, that are insoluble or poorly soluble in water and that have low toxicity.

8.2 Exposure controls

Observe the usual safety measures when handling chemicals.

Hand protection:

Not needed.

Eye protection:

Not needed.

Body protection:

Not needed.

Respiratory protection:

We recommend using a type P filtering face mask, the class (1, 2 or 3) and actual need of which must be defined based on the outcome of the risk assessment (ref. standard EN 149).

Environmental exposure controls:

Emissions from production processes, including those from ventilation equipment, should be monitored to comply with environmental protection legislation.

Product residues must not be discharged uncontrolled into waste water or watercourses.

SolidFlow PR112 Naphthol Red AS-D

Product code **SF 350-X**

Date of Revision: October 10th 2024

Revision N: 1

Country / Language: ITA / EN

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Granules
Physical state:	Solid
Colour:	Red
Odour:	Characteristic
Solubility:	Insoluble in water. It disperses.
Density:	1.48 kg/l (pigment)
Bulk density:	0.8 - 1.2 kg/l
Decomposition temperature:	No data available
Flammability:	Not applicable
Autoignition temperature:	420 °C (pigment)

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under normal conditions. Reference to other sections: 10.4 & 10.5.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Dust is potentially explosive when mixed with air.

10.4 Conditions to avoid

Avoid the accumulation of dust in the environment.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

No data available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Metabolism, kinetics, mechanism of action and other information:

No data available.

Information on likely routes of exposure:

No data available.

Interactive effects:

No data available.

Acute toxicity:

2-Naphthalenecarboxamide,3-hydroxy-N-(2-methylphenyl)-4-
[[2,4,5-trichlorophenyl]azo]-

LD50 (Dermal):

> 5000 mg/kg rat

LD50 (Oral):

> 5000 mg/kg rat

Skin corrosion/irritation:

Does not meet the classification criteria for this hazard class.

Serious eye damage/eye irritation:

Does not meet the classification criteria for this hazard class.

Respiratory or skin sensitization:

Does not meet the classification criteria for this hazard class.

SolidFlow **PR112 Naphthol Red AS-D**

Product code **SF 350-X**

Date of Revision: October 10th 2024

Revision N:1

Country / Language: ITA / EN

Germ cell mutagenicity:	Does not meet the classification criteria for this hazard class.
Carcinogenicity:	Does not meet the classification criteria for this hazard class.
Reproductive toxicity:	Does not meet the classification criteria for this hazard class.
STOT-single exposure:	Does not meet the classification criteria for this hazard class.
STOT-repeated exposure:	Does not meet the classification criteria for this hazard class.
Aspiration hazard:	Does not meet the classification criteria for this hazard class.

11.2 Information on other dangers

Based on available data, the substance is not listed in the main European lists of potential or suspected endocrine disruptors with effects on human health under evaluation

SECTION 12: Ecological information

The product is considered dangerous for the environment and is toxic to aquatic organisms with long-term negative effects on the aquatic environment.

12.1 Toxicity

EC50 - Algae / Aquatic Plants
NOEC Chronic Fish:

2-Naphthalenecarboxamide,3-hydroxy-N-(2-methylphenyl)-4-
[(2,4,5-trichlorophenyl)azo]-
> 1 mg/l/72h *Pseudokirchneriella subcapitata*
0.85 mg/l *Danio rerio*

12.2 Persistence and degradability

No available information.

12.3 Bioaccumulative potential

No available information.

12.4 Mobility in soil

No available information.

12.5 Results of PBT and vPvB assessment

The substance has no persistence, bioaccumulation and toxicity (PBT) properties and is not very persistent and very bioaccumulative (vPvB).

12.6 Endocrine disrupting properties

Based on available data, the substance is not listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7 Other adverse effects

No available information.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product residues are to be considered hazardous special waste. The hazardousness of waste that partially contains this product must be assessed according to the current legislative provisions.

Disposal must be entrusted to a company authorized to manage waste, in compliance with national and possibly local legislation.

SolidFlow **PR112 Naphthol Red AS-D**

Product code **SF 350-X**

Date of Revision: October 10th 2024

Revision N: 1

Country / Language: ITA / EN

Waste transportation may be subject to ADR.

CONTAMINATED PACKAGING

Contaminated packaging must be sent for recovery or disposal in compliance with national regulations on waste management.

SECTION 14: Transport information

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

14.1 UN number

ADR / RID, IMDG, IATA: UN 3077

ADR / RID:

If carried in simple or inner packaging with a capacity ≤ 5Kg or 5L, the product is not subject to the ADR/RID provisions, as provided for in Special Provision 375.

IMDG:

If carried in simple or inner packaging with a capacity ≤ 5Kg or 5L, the product is not subject to the provisions of the IMDG Code, as provided for in Section 2.10.2.7.

IATA:

If carried in simple or inner packaging with a capacity ≤ 5Kg or 5L, the product is not subject to the other IATA provisions, as provided for in Special Provision A197.

IATA:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(2-Naphthalenecarboxamide,3-hydroxy-N-(2-methylphenyl)-4-[(2,4,5-trichlorophenyl)azo]-)

14.2 UN proper shipping name

ADR / RID:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(2-Naphthalenecarboxamide,3-hydroxy-N-(2-methylphenyl)-4-[(2,4,5-trichlorophenyl)azo]-)

IMDG:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(2-Naphthalenecarboxamide,3-hydroxy-N-(2-methylphenyl)-4-[(2,4,5-trichlorophenyl)azo]-)

IATA:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(2-Naphthalenecarboxamide,3-hydroxy-N-(2-methylphenyl)-4-[(2,4,5-trichlorophenyl)azo]-)

14.3 Transport hazard class(es)

ADR / RID:

Class: 9

Label: 9



IMDG:

Class: 9

Label: 9



IATA:

Class: 9

Label: 9



SolidFlow **PR112 Naphthol Red AS-D**

Product code **SF 350-X**

Date of Revision: October 10th 2024

Revision N:1

Country / Language: ITA / EN

14.4 Packing group

Not applicable.

14.5 Environmental hazards

ADR / RID:

Dangerous for the Environment



IMDG:

Marine Pollutant



IATA:

Dangerous for the Environment



14.6 Special precautions for user

ADR / RID:

HIN - Kemler: 90 Limited Quantities: 5 kg Tunnel Restriction Code: (-)
Special Provision: 274, 335, 375, 601

IMDG:

EMS: F-A, S-F Limited Quantities: 5 kg

IATA:

Cargo: Maximum Quantity: 400 kg Packing Instructions: 956
Passengers: Maximum Quantity: 400 kg Packing Instructions: 956
Special Provision: A97, A158, A179, A197, A215

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

SECTION 15: Regulatory information

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

EU-Regulations

Seveso Category - Directive 2012/18/EU:

E2

Restrictions relating to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006

Substances contained

Point 75

No REACH Annex XVII restrictions

SECTION 16: Other information

Text of hazard statements (H) cited in sections 2-3 of the sheet:

Aquatic Chronic 2

Hazardous to the aquatic environment, chronic toxicity, category 2

H411

Toxic to aquatic life with long lasting effects.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE / STA: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- EC: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EC50: Effective concentration (required to induce a 50% effect) of a test population
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation

SolidFlow **PR112 Naphthol Red AS-D**

Product code **SF 350-X**

Date of Revision: October 10th 2024

Revision N: 1

Country / Language: ITA / EN

- IC50: Immobilization Concentration 50% of a test population
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational exposure level
- PBT: Persistent, bioaccumulative and toxic
- PEC: Predicted environmental concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulations concerning the International Carriage of Dangerous Goods by Train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time Weighted Average Exposure Limit
- TWA STEL: Short Term Exposure Limit
- VOC: Volatile Organic Compound
- vPvB: Very Persistent and Very Bioaccumulative
- vPvM: Very Persistent and Very Mobile
- WGK: Water Hazard Class (Germany).

GENERAL BIBLIOGRAPHY:

1. Regulation (EC) 1907/2006 of the European Parliament (REACH)
2. Regulation (EC) 1272/2008 of the European Parliament (CLP)
3. Regulation (EU) 2020/878 (Annex II REACH Regulation)
4. Regulation (EC) 790/2009 of the European Parliament (I Atp. CLP)
5. Regulation (EU) 286/2011 of the European Parliament (II Atp. CLP)
6. Regulation (EU) 618/2012 of the European Parliament (III Atp. CLP)
7. Regulation (EU) 487/2013 of the European Parliament (IV Atp. CLP)
8. Regulation (EU) 944/2013 of the European Parliament (V Atp. CLP)
9. Regulation (EU) 605/2014 of the European Parliament (VI Atp. CLP)
10. Regulation (EU) 2015/1221 of the European Parliament (VII Atp. CLP)
11. Regulation (EU) 2016/918 of the European Parliament (VIII Atp. CLP)
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2019/521 (XII Atp. CLP)
16. Delegated Regulation (EU) 2018/1480 (XIII Atp. CLP)
17. Regulation (EU) 2019/1148
18. Delegated Regulation (EU) 2020/217 (XIV Atp. CLP)
19. Delegated Regulation (EU) 2020/1182 (XV Atp. CLP)
20. Delegated Regulation (EU) 2021/643 (XVI Atp. CLP)
21. Delegated Regulation (EU) 2021/849 (XVII Atp. CLP)

SolidFlow **PR112 Naphthol Red AS-D**

Product code **SF 350-X**

Date of Revision: October 10th 2024

Revision N: 1

Country / Language: ITA / EN

- 22. Delegated Regulation (EU) 2022/692 (XVIII Atp. CLP)
- 23. Delegated Regulation (EU) 2023/707
- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS Website
- ECHA Agency Website
- Database of models of SDS of chemical substances - Ministry of Health and Istituto Superiore di Sanità

Note for the user:

The information contained in this sheet is based on the knowledge available to us at the date of the last version. The user must ensure the suitability and completeness of the information in relation to the specific use of the product. This document must not be interpreted as a guarantee of any specific property of the product.

Since the use of the product does not fall under our direct control, it is the user's obligation to observe under his own responsibility the laws and provisions in force regarding hygiene and safety. No liability is assumed for improper use. Provide adequate training to personnel responsible for the use of chemical products.

CLASSIFICATION CALCULATION METHODS

Physico-chemical hazards: The classification of the product has been derived from the criteria established by the CLP Regulation Annex I Part 2. The methods for evaluating the chemical-physical properties are given in section 9.

Health hazards: The classification of the product is based on the calculation methods set out in Annex I of CLP Part 3, unless otherwise indicated in section 11.

Environmental hazards: The classification of the product is based on the calculation methods set out in Annex I of CLP Part 4, unless otherwise indicated in section 12.

SECTION 16: Other information

Issued by:	Responsible for Health, Safety, and Environment
Issue date:	October 10 th , 2024
Revision N:	1

More information:

This safety data sheet is drawn up in compliance with in force the regulations in 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.