

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



94050 Nigrosine

Page 1

Revised edition: 17.08.2020

Version: 1.0

Printed: 20.04.2021

1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1. Product Identifier

Product Name: Nigrosine

Article No.: 94050

1.2. Relevant identified Uses of the Substance or Mixture and Uses advised against

Identified uses:

Coloring agent for industrial purposes

Uses advised against:

1.3. Details of the Supplier of the Safety Data Sheet (Producer/Importer)

Company: Kremer Pigmente GmbH & Co. KG

Address: Hauptstr. 41-47, 88317 Aichstetten, Germany

Tel./Fax.: Tel +49 7565 914480, Fax +49 7565 1606

Internet: www.kremer-pigmente.com

E-Mail: info@kremer-pigmente.com

Importer: --

1.4. Emergency No.

Emergency No.: +49 7565 914480 (Mon-Fri 8:00 - 17:00)

1.4.2 Poison Center:

2. Hazards Identification

2.1. Classification of the Substance or Mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)

This product does not require classification and labelling as hazardous according to CLP/GHS.

Possible Environmental Effects:

2.2. Label Elements

Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)

No classification required according to the CLP/GHS guidelines.

Hazard designation:

Not applicable.

Signal word:

Hazard designation:

Safety designation:

Hazardous components for labelling:

2.3. Other Hazards

*Dust can form an explosive mixture with air.
Dust may be produced when working with this material, which can cause a mechanical irritation of eyes, nose and respiratory tract.*

Composition/Information on Ingredients

next page: 2

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



94050 Nigrosine

Page 2

Revised edition: 17.08.2020

Version: 1.0

Printed: 20.04.2021

3.

3.1. Substance

3.2. Mixture

Chemical Characterization: Preparation made of azine dye and azo dye (C.I. Acid Black 2)
Substance of unknown or variable composition, complex reaction products or biological materials (UVCB).

Information on Components / Hazardous Ingredients:

Hydrochloric acid, reaction products with aniline and nitrobenzene, sulfonated, sodium salts; REACH Reg. No. 01-2119970304-40	100 %	CAS-Nr: 90411-76-0 EINECS-Nr: 291-454-0 EC-Nr:
--	-------	--

Additional information:

4. First Aid Measures

4.1. Description of the First Aid Measures

General information:

Seek medical attention in case of complaints.

After inhalation:

Supply fresh air. Consult physician if symptoms persist.
In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48h.

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. In case of discomfort seek medical help.

After ingestion:

Rinse mouth thoroughly with plenty of water. Do not induce vomiting. Consult physician immediately.

4.2. Most important Symptoms and Effects, both Acute and Delayed

Symptoms:

No further information available.

Effects:

4.3. Indication of any Immediate Medical Attention and special Treatment needed

Treatment:

No further information available.

5. Fire-Fighting Measures

5.1. Extinguishing Media

Suitable extinguishing media:

Water mist, extinguishing powder, foam, carbon dioxide.

Unsuitable extinguishing media:

next page: 3

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



94050 Nigrosine

Page 3

Revised edition: 17.08.2020

Version: 1.0

Printed: 20.04.2021

Water spray.

5.2. Special Hazards arising from the Substance or Mixture

Special hazards:

Dust can form explosive mixtures with air.

In case of fire: formation of carbon and nitrogen oxides, sulfur oxides, halogenated compounds, metal oxides/oxides.

5.3. Advice for Firefighters

Protective equipment:

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:

6. Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

Wear protective clothing.

6.2. Environmental Precautions

Environmental precautions:

Prevent contamination of soil, drains and surface waters.

6.3. Methods and Material for Containment and Cleaning Up

Methods and material:

Clean up mechanically. Transfer liquids and solid diking material to separate suitable containers for recovery or disposal.

6.4. Reference to other Sections

Protective clothing, see Section 8.

Dispose of contaminated material according to Section 13.

7. Handling and Storage

7.1. Precautions for Safe Handling

Instructions on safe handling:

Wear adequate protective clothing (see para. 8).

Avoid formation of dust. Do not inhale dust.

Hygienic measures:

Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.

Change contaminated clothing. Preventive skin protection recommended. Wash hands after work.

7.2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:

Store in a cool and dry place.

Protect product from direct sunlight.

Keep away from ignitable sources and fire.

Requirements for storage areas and containers:

next page: 4

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



94050 Nigrosine

Page 4

Revised edition: 17.08.2020

Version: 1.0

Printed: 20.04.2021

Store the product in the original container.

Do not store product in unlabelled containers.

Information on fire and explosion protection:

Do not store together with: foodstuffs and animal feed.

Do not store together with: oxidants.

Avoid dust formation.

Take measures to prevent electrostatic discharge.

Ground and bond containers when transferring material.

Storage class:

11; Combustible solids (TRGS 510)

Further Information:

7.3. Specific End Use(s)

Further information:

8. Exposure Controls/Personal Protection

8.1. Parameters to be Controlled

Parameters to be controlled (DE):

none known

Parameters to be controlled:

Derived No-Effect Level (DNEL):

97.95 mg/m³ (worker, inhalation, long-term exposure - systemic effects)

195.9 mg/m³ (worker, inhalation, short-term exposure - systemic effects)

13.9 mg/kg bw/d (worker, skin contact, long-term exposure - systemic effects)

27.8 mg/m³ bw/d (worker, skin contact, short-term exposure - systemic effects)

29 mg/m³ (consumer, inhalation, long-term exposure - systemic effects)

58 mg/m³ (consumer, inhalation, short-term exposure - systemic effects)

8.33 mg/m³ bw/d (consumer, skin contact/swallowing, long-term exposure - systemic effects)

16.7 mg/m³ bw/d (consumer, skin contact/swallowing, short-term exposure - systemic effects)

Predicted No-Effect Concentration (PNEC):

Additional Information:

8.2. Exposure Controls

Technical protective measures:

Provide adequate ventilation.

Personal Protection

General protective measures:

Do not inhale dust. Do not eat, drink or smoke while working.

next page: 5

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



94050 Nigrosine

Page 5

Revised edition: 17.08.2020

Version: 1.0

Printed: 20.04.2021

*Wash hands before breaks and at the end of work.
Remove contaminated clothing immediately.*

Respiratory protection:

In case of formation of dust.

Hand protection:

Protective gloves

Protective glove material:

Polychloropren (CR) (< 60 min)

Polyvinyl chloride (PVC) (< 60 min)

Nitrile rubber (NBR) (< 60 min)

Change gloves after contamination. Dispose of according to regulations.

Eye protection:

Safety glasses (EN 166)

Body protection:

Protective clothing.

Environmental precautions:

Prevent from getting into the soil, surface water and sewage system.

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

Form: solid

Color: black

Odor: odorless

Odor threshold: No information available.

pH-Value: 7 - 12 (10 %)

Melting temperature: not available

Boiling temperature: not available

Flash point: not applicable

Evaporation rate: No information available.

Flammability (solid, gas): not available

Upper explosion limit: no information available

Lower explosion limit: no information available

next page: 6

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



94050 Nigrosine

Page 6

Revised edition: 17.08.2020

Version: 1.0

Printed: 20.04.2021

Vapor pressure:	< 0.0001 hPa (20°C)
Vapor density:	No information available.
Density:	
Solubility in water:	> 143 g/l (20°C; OECD 105)
Coefficient of variation (n-Octanol/Water):	< -4.9 logPOW (calc.)
Auto-ignition temperature:	No information available.
Decomposition temperature:	310°C (590°F)
Viscosity, dynamic:	not applicable
Explosive properties:	Risk of dust explosion.
Oxidizing properties:	No information available.
Bulk density:	383 kg/m ³

9.2. Further Information

Solubility in solvents:	
Viscosity, kinematic:	
Burning class:	
Solvent content:	
Solid content:	
Particle size:	
Other information:	

10. Stability and Reactivity

10.1. Reactivity	No information available.
10.2. Chemical Stability	Stable if used according to specifications.
10.3. Possibility of Hazardous Reactions	Dust can form explosive mixtures with air.
10.4. Conditions to Avoid	
Conditions to avoid:	Avoid formation of dust.
Thermal decomposition:	
10.5. Incompatible Materials	Oxidizing agents.

next page: 7

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



94050 Nigrosine

Page 7

Revised edition: 17.08.2020

Version: 1.0

Printed: 20.04.2021

10.6. Hazardous Decomposition Products

None if stored and handled according to specifications.

10.7. Further Information

11. Toxicological Information

11.1. Information on Toxicological Effects

Hydrochloric acid, reaction products with aniline and nitrobenzene, sulfonated, sodium salts:

Acute Toxicity

LD50, oral:

> 5000 mg/kg (rat, f; OECD 401)

LD50, dermal:

> 2000 mg/kg (rat, m/f; OECD 402)

LC50, inhalation:

> 5 mg/l (4h)

Primary effects

Irritant effect on skin:

Non irritating

Irritant effect on eyes:

Non-irritating to eyes

Inhalation:

No information available.

Ingestion:

No information available

Sensitization:

Non sensitizing (OECD 429, Mouse Local Lymph Node Assay (LLNA))

Mutagenicity:

*In vitro Bacterial Reverse Mutation Test (OECD 471): negative
In vitro Mammalian Cell Gene Mutation Test (OECD 476): negative
In vivo genetic-toxicity: micronucleus negative (OECD 487)*

Reproductive toxicity:

No relevant data found.

Carcinogenicity:

No negative effects.

Teratogenicity:

Specific target organ toxicity (STOT):

Single exposure: no information available.

Repeated exposure: NOAEL (oral): 1000 mg/kg (30d, Dosage: 100 - 300 - 1000 mg/kg, rat (m/f); OECD 407)

Additional toxicological information:

Inhalation: Repeated or prolonged inhalation of dust can cause a chronic irritation of the respiratory tract.

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



94050 Nigrosine

Page 8

Revised edition: 17.08.2020

Version: 1.0

Printed: 20.04.2021

12. Ecological Information

12.1. Aquatic Toxicity

Hydrochloric acid, reaction products with aniline and nitrobenzene, sulfonated, sodium salts:

Fish toxicity:

LC50: > 100 mg/l (96h, Danio rerio; OECD 203)

Daphnia toxicity:

EC50: > 100 mg/l (48h, Daphnia magna; OECD 202)

Bacteria toxicity:

EC50: > 1000 mg/l (3h; active sludge; OECD 209)

Algae toxicity:

ErC50: > 100 mg/l (72h, Pseudokirchneriella subspicatus; OECD 201)

NOEC: 3.4 mg/l (72h, Desmodesmus subspicatus; OECD 201)

12.2. Persistency and Degradability

Not readily biodegradable (30 %, 28d; OECD 302B)

12.3. Bioaccumulation

logPOW: < -4.9 (low bioaccumulation)

12.4. Mobility

No data available.

12.5. Results of PBT- und vPvP Assessment

On the basis of available data, the product does not contain and PBT or vPvB in percentage greater than 0.1 %.

12.6. Other Adverse Effects

Water hazard class:

2 (German Regulation) (Assessment by list): hazardous.

Behaviour in sewage systems:

Further ecological effects:

Product does not contain relevant concentrations of heavy metals; does not contain nitrogen, phosphates or phosphor-organic compounds.

AOX Value:

Product does not contain any organically bound halogens which influence the AOX value of discard water.

13. Disposal Considerations

13.1. Waste Treatment Methods

Product:

In accordance with current regulations, product may be taken to waste disposal site or incineration plant, after consultation with site operator and/or with the responsible authority.

European Waste Code (EWC):

The waste code is determined according to the kind of waste and industry stated in the European Waste Catalogue.

Uncleaned packaging:

next page: 9

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



94050 Nigrosine

Page 9

Revised edition: 17.08.2020

Version: 1.0

Printed: 20.04.2021

Contaminated packaging must be disposed like the substance.

Waste Code No.:

14. Transport Information

14.1. UN Number

ADR, IMDG, IATA

14.2. UN Proper Shipping Name

ADR/RID:

No hazardous goods according to ADR (land transportation).

IMDG/IATA:

No hazardous goods according to IMDG.

14.3. Transport Hazard Classes

ADR Class:

not applicable

Hazard no.:

Classification code:

Tunnel restriction code:

IMDG Class (sea):

Hazard no.:

EmS No.:

IATA Class:

not applicable

Hazard no.:

14.4. Packaging Group

ADR/RID:

not applicable

IMDG:

IATA:

14.5. Environmental Hazards

None

14.6. Special Precautions for User

Not classified as a dangerous good under transport regulations.

14.7. Transportation in Bulk according to Annex II of MARPOL 73/78 and IBC-Code

not applicable

14.8. Further Information

Do not store together with foodstuffs.

15. Regulatory Information

15.1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

Water hazard class:

2, hazardous for water (according to the German Regulation

next page: 10

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



94050 Nigrosine

Page 10

Revised edition: 17.08.2020

Version: 1.0

Printed: 20.04.2021

AwSV)

Local regulations on chemical accidents:

Seveso III Directive: not applicable under Directive 2012/18/EC.

Employment restrictions:

Restriction and prohibition of application:

EC. REACH, Section XVII, Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles: not applicable

Technical instructions on air quality:

15.2. Chemical Safety Assessment

A Chemical Safety Assessment has been carried out for this product.

15.3. Further Information

EC. REACH, Annex XIV, Candidate List of Substances of very High Concern (SVHC): not regulated / not applicable

Regulation (EC) 850/2004 - Persistent organic pollutants and amending Directive 79/117/EEC: not regulated / not applicable

Regulation (EC) 1005/2009 - Substances that Deplete the Ozone Layer: not regulated / not applicable

Regulation (EC) 649/2012 concerning the export and import of dangerous chemicals: Diphenylamine

Regulation (EC) 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors: not forbidden and/or not restricted

16. Other Information

This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.