deffner & Johann

Supplies for RESTORATION | CONSERVATION | ART HANDLING – SINCE 1880

SAFETY DATA SHEET

1130120 | Azo Scarlet

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

1.1. Product identifier

Azoscharlach

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

Use of the substance/preparation

Colourant

1.3. Details of the supplier of the safety data sheet

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1.4 Notfall-Nummer: +49 (0) 9723 9350-0 (Mo. – Fr. 7:30 – 15:00 Uhr)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

This product is not classified hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

EUH208 Contains 1-[(4-Methoxy-2-nitrophenyl)azo]-2-naphthol, May produce an allergic reaction.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

Supplemental information

EUH210 Safety data sheet available on request.

2.3. Other hazards

Dust loading. Possible dust explosion hazard.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

colourant mixture, inorganic/organic construction

Hazardous ingredients (Regulation (EC) No. 1272/2008)

2-Naphthol

CAS No.		135-19-3		
EINECS no.		205-182-7		
Registration no.		01-2119957114-40-XXXX		
Concentration	>=	0,1	< 1	%

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 4	H332
Acute Tox. 4	H302
Aquatic Acute 1	H400

1-[(4-Methoxy-2-nitrophenyl)azo]-2-naphthol

CAS No.	49744-28-7
EINECS no.	256-458-9
Registration no.	01-2120753168-50-XXXX

Concentration	>=	0,1	<	1	%	

Classification (Regulation (EC) No. 1272/2008)
Skin Sens. 1 H317

Further ingredients

Calcium fluoride

CAS No.		14542-23-5				
Concentration	>=	1	<	10	%	[5]

Note

[5] Substance with EU occupational exposure limits

SECTION 4: First aid measures

4.1. Description of first aid measures

General information
In case of persistent symptoms consult doctor.

After inhalation
Remove the casualty into fresh air and keep him calm. In the event of symptoms take medical treatment.

After skin contact
Wash off immediately with soap and water. Consult a doctor if skin irritation persists.

After eye contact
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

After ingestion
Rinse mouth thoroughly with water. Call in a physician immediately and show him the Safety Data Sheet.

Adhere to personal protective measures when giving first aid
First aider: Pay attention to self-protection!

4.2. Most important symptoms and effects, both acute and delayed

Until now no symptoms known so far.

4.3. Indication of any immediate medical attention and special treatment needed

Hints for the physician / treatment
Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media
Water spray jet, Foam

Non suitable extinguishing media
Full water jet, Carbon dioxide

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released: Sulphur oxides; Carbon monoxide (CO); Carbon dioxide (CO2); Nitrogen oxides (NOx); Hydrogen halide; Irritant and harmful combustion products.

5.3. Advice for firefighters

Special protective equipment for fire-fighting
Use self-contained breathing apparatus. Wear full protective suit.

Other information
Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Do not inhale dust. Ensure adequate ventilation. Use breathing apparatus if exposed to vapours/dust/aerosol. High risk of slipping due to leakage/spillage of product. Use personal protective clothing. Refer to

protective measures listed in Sections 7 and 8. Remove persons to safety.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Retain and dispose of contaminated wash water.

6.3. Methods and material for containment and cleaning up

Avoid raising dust. Pick up mechanically. When picked up, treat material as prescribed under Section 13 "Disposal".

6.4. Reference to other sections

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid the formation and deposition of dust. Provide exhaust ventilation if dust is formed. Ensure adequate ventilation. Handle and open container with care. Provide suitable exhaust ventilation at the processing machines. Use breathing apparatus when transferring large quantities without exhaust ventilation facilities. If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. Observe the usual precautions for handling chemicals.

Advice on protection against fire and explosion

Avoid dust formation. Take action to prevent static discharges. Earthing necessary during loading operations. Keep away from sources of heat and ignition. Dust can form an explosive mixture with air. Do not smoke.

7.2. Conditions for safe storage, including any incompatibilities

Hints on storage assembly

Do not store together with foodstuffs. Do not store together with: Oxidising agents, Acids

Further information on storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from direct sunlight. Protect from extreme heat and cold.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

Calcium fluoride

List	2000/39/EC	
Type	Indicative Occupational Exposure Limit (EU)	
Value	2,5	mg/m³

Remarks: Fluorides, inorganic

Calcium fluoride

List	TRGS 900	
Value	1	mg/m³

Maximum limit value: 4(II); Skin resorption / sensibilisation: H; Pregnancy group: Y; Status: 12/2007; Remarks: EU, DFG

Quartz

Type	MAK	
Value	0,05	mg/m³

Maximum limit value: 8; Status: DGUV 2017; Remarks: Alveolengängige Fraktion, TRGS 559, TRGS-Beurteilungsmaßstab

Biological limit values

Calcium fluoride

List	TRGS 903	
Value	7,0	mg/g creatinine
Parameter	Fluoride	
Testing material	Urine (U)	
Test date	End of exposure or end of shift.	

Calcium fluoride

List	TRGS 903

Value	4,0	mg/g creatinine
Parameter	Fluoride	
Testing material	Urine (U)	
Test date	Before next shift.	

Other information

The national general dust limit must be observed.
TRGS 900: Oberserve the general dust threshold.

8.2. Exposure controls

General protective and hygiene measures

Do not inhale dust/fumes/aerosols. Avoid contact with skin and eyes. Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Use barrier skin cream. Observe the usual precautions for handling chemicals. Take off immediately all contaminated clothing.

Respiratory protection

If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. Particle filter P2; Use breathing apparatus in dust-laden atmosphere.

Hand protection

Protective gloves
Observe the information of the glove manufacturers on permeability and breakthrough times and other workplace requirements.

Eye protection

Safety glasses with side protection shield

Body protection

Clothing as usual in the chemical industry.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Powder
Colour	see tradename
Odour	characteristic
Odour threshold	
Remarks	not determined
pH value	
Remarks	not determined
Melting point	
Remarks	not determined
Freezing point	
Remarks	not determined
Initial boiling point and boiling range	
Remarks	not determined
Flash point	
Remarks	Not applicable
Evaporation rate (ether = 1) :	
Remarks	not determined
Flammability (solid, gas)	
not determined	
Upper/lower flammability or explosive limits	
Remarks	not determined
Vapour pressure	
Remarks	not determined
Vapour density	
Remarks	not determined
Density	
Remarks	not determined
Solubility in water	
Remarks	not determined
Solubility(ies)	

Remarks	not determined

Partition coefficient: n-octanol/water

Remarks	not determined

Ignition temperature

Remarks	not determined

Decomposition temperature

Remarks	not determined

Explosive properties

evaluation	not determined

Oxidising properties

Remarks	not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reactions when stored and handled according to prescribed instructions.

10.2. Chemical stability

No hazardous reactions known.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

Static charges. Dust can form an explosive mixture with air. Avoid all sources of ignition: heat, sparks, open flame.

Decomposition temperature

Remarks	not determined

10.5. Incompatible materials

Reactions with strong oxidising agents. Reactions with strong alkalies. Reducing agents, Acids

10.6. Hazardous decomposition products

Barium oxides, sulphurous oxides (SOx), nitrous oxides (NOx), Chlorine compounds

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

Remarks	not determined

Acute oral toxicity (Components)

2-Naphthol

Species	rat	
LD50	1960	mg/kg
Source	Literature value	
Source	Estimated value acute toxicity: 500 mg/kg, calculated value of the acute toxicity	

Acute dermal toxicity

Remarks	not determined

Acute inhalational toxicity

Remarks	not determined

Skin corrosion/irritation

Remarks	not determined
Remarks	Frequent persistent contact with the skin can cause skin irritation.

Skin corrosion/irritation (Components)

2-Naphthol

Species	rabbit	
Observation Period	24	h
evaluation	slightly irritant	
Source	Literature value	

1-[(4-Methoxy-2-nitrophenyl)azo]-2-naphthol

Species	Reconstructed human epidermis	
Duration of exposure	1	h

evaluation	non-irritant
Method	OECD 439
Source	Literature value

Serious eye damage/irritation

Remarks	not determined
Remarks	Eye contact with the product may lead to irritation.

Serious eye damage/irritation (Components)

2-Naphthol

Species	rabbit eye
evaluation	Moderately irritating
Source	Literature value

1-[(4-Methoxy-2-nitrophenyl)azo]-2-naphthol

Species	Bovine cornea
Duration of exposure	4 h
evaluation	non-irritant
Method	OECD 437
Source	Literature value

Sensitization

Remarks	not determined

Sensitization (Components)

1-[(4-Methoxy-2-nitrophenyl)azo]-2-naphthol

Route of exposure	dermal
Species	mouse
evaluation	May cause allergic skin reaction.
Method	OECD 429
Remarks	May cause sensitization by skin contact.
Source	Literature value

Subacute, subchronic, chronic toxicity

Remarks	not determined
Remarks	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Mutagenicity

Remarks	not determined

Mutagenicity (Components)

2-Naphthol

Route of exposure	oral
Species	mouse
Source	Literature value
Source	Methode: OECD test guideline 474, mouse (male)

2-Naphthol

evaluation	Not considered mutagenic based on several in vitro and in vivo studies.
Source	Literature value
Source	In vitro: Spezies: Salmonella typhimurium; Result: negative

Reproductive toxicity

Remarks	not determined

Reproduction toxicity (Components)

2-Naphthol

Route of exposure	oral
Species	Rats (male/female)
Remarks	Based on available data, the classification criteria are not met.
Source	Literature value
Source	General toxicity in mothers: 10 mg/kg; Embryo-fetal toxicity: > 160 mg/kg; Methode: OECD test guideline 415

Carcinogenicity

Remarks	not determined

Carcinogenicity (Components)

2-Naphthol

Route of exposure	dermal
Species	mouse
Duration of exposure	12 Weeks

evaluation	No indications of carcinogenic effects are available from long-term trials.
Source	Literature value
Source	Mouse (female)

2-Naphthol

Route of exposure	dermal
Species	mouse
Duration of exposure	21 Weeks
evaluation	No indications of carcinogenic effects are available from long-term trials.
Source	Literature value
Source	Mouse (female)

Specific Target Organ Toxicity (STOT)

Remarks not determined

Specific Target Organ Toxicity (STOT) (Components)

2-Naphthol

Repeated exposure

Route of exposure oral

Species	rat
NOAEL	107 mg/kg
Source	Literature value

Other information

No toxicological data are available.

SECTION 12: Ecological information

12.1. Toxicity

General information

not determined

Fish toxicity (Components)

2-Naphthol

Species	Fathead minnow (Pimephales promelas)
LC50	3,46 mg/l
Duration of exposure	96 h
Source	Literature value
Source	Type of test: static test

2-Naphthol

Species	rainbow trout (Oncorhynchus mykiss)
LC50	0,08 mg/l
Duration of exposure	23 d
Source	Literature value
Source	Chronic toxicity

Daphnia toxicity (Components)

2-Naphthol

EC50	0,85 mg/l
Duration of exposure	48 h
Source	Literature value
Source	Type of test: static test

12.2. Persistence and degradability

General information

not determined

Biodegradability

Remarks not determined

Biodegradability (Components)

2-Naphthol

Value	27,8 %
Duration of test	5 d
Source	Literature value

Biochemical oxygen demand (BOD5) (Components)

2-Naphthol

Value	0,71	mg/g
Source	Literature value	

12.3. Bioaccumulative potential

General information
not determined

Partition coefficient: n-octanol/water

Remarks	not determined

12.4. Mobility in soil

General information
not determined

Mobility in soil (Components)

2-Naphthol
Highly mobile in soils

12.5. Results of PBT and vPvB assessment

General information
not determined

12.6. Other adverse effects

General information
not determined

General information / ecology
Ecological data are not available. Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product
Product should be taken to a suitable and authorized waste disposal site in accordance with relevant regulations and if necessary after consultation with the waste disposal operator and/or the competent Authorities.

Disposal recommendations for packaging
Packaging that cannot be cleaned should be disposed off as product waste.
Uncontaminated packaging may be taken for recycling.

SECTION 14: Transport information

Land transport ADR/RID

The product does not constitute a hazardous substance in land transport.

Marine transport IMDG/GGVSee

The product does not constitute a hazardous substance in sea transport.

Air transport ICAO/IATA

The product does not constitute a hazardous substance in air transport.

SECTION 15: Regulatory information

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

Water Hazard Class (Germany)

Water Hazard Class (Germany)	WGK 1
Remarks	Derivation of WGK according to Annex 1 No. 5.2 AwSV

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: Other information

Hazard statements listed in Chapter 3

H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.

H332	Harmful if inhaled.
H400	Very toxic to aquatic life.

CLP categories listed in Chapter 3

Acute Tox. 4	Acute toxicity, Category 4
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Skin Sens. 1	Skin sensitization, Category 1

Abbreviations

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route
AGW: Arbeitsplatzgrenzwert
AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances that are hazardous to water)
BGW: Biologischer Grenzwert
CAS: Chemical Abstracts Service
DNEL: Derived no effect level
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
GGVSee: Gefahrgutverordnung See
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
IMDG: International Maritime Code for Dangerous Goods
LC: Lethal concentration
LD: Lethal dose
MAK: Maximale Arbeitsplatz-Konzentration
NOEC: No observable effect concentration
NOEL: No observable effect level
OECD: Organisation for Economic Co-operation and Development
OEL: Occupational exposure limit
PBT: Persistent, Bioaccumulative and Toxic
PNEC: Predicted no effect concentration
RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses
TRGS: Technische Regeln für Gefahrstoffe
VDI: Verein Deutscher Ingenieure
VLEP: Valeurs Limites d'exposition Professionnelle
vPvB: Very persistent and very bioaccumulative
WGK: Wassergefährdungsklasse (water hazard class)

Supplemental information

These data is based on our present knowledge and experience respectively supplier-information. This safety data sheet describes the product in regard to the requirements of safety. The information does not represent a assurance for certain properties. Existing laws and regulations are to be observed by the recipient of our products in own responsibility. It is the responsibility of the user, to determine if the product is suitable for the deliberate operational area and the respective intended purpose. A liability for damages in connection with the use of this information is excluded. Relevant changes compared with the previous version of the safety data sheet are marked with: ***