

# Safety Data Sheet

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



## 94420 Solvent Black 27

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Revised edition: 23.09.2021

Version: 1.0

Printed: 15.11.2022

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

#### 1.1. Product Identifier

*Product Name:* Solvent Black 27

*Article No.:* 94420

*UFI:* --

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

*Identified uses:*

*Coloring agent for dye and varnish industry*

*Coloring agent for industrial purposes*

*Uses advised against:*

*Not applicable.*

#### 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](http://www.kremer-pigmente.com)

*EMail:* [info@kremer-pigmente.com](mailto: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)*

*Skin sensitization, hazard category 1B*

*Reproductive toxicity, hazard category 1B*

*Specific target organ toxicity (repeated exposure), hazard category 2*

H317 May cause an allergic skin reaction.

Cat.: 1

H360D May damage the unborn child.

Cat.: Repr. 1A

H373 May cause damage to organs through prolonged or repeated exposure.

Cat.: 2

*Possible Environmental Effects:*

#### 2.2. Label Elements

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

*Hazard designation:*

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GHS07



GHS08-2

Signal word:

Danger

Hazard designation:

H317

May cause an allergic skin reaction.

H360D

May damage the unborn child.

H373

May cause damage to organs through prolonged or repeated exposure.

Safety designation:

P201

Obtain special instructions before use.

P260

Do not breathe dust/fume/gas/mist/vapours/spray.

P280

Wear protective gloves/ clothing/ eye/ face protection.

P308+P313

If exposed or concerned: Get medical advice/attention.

P405

Store locked up.

P501

Dispose of contents/ container according to regional, national and international regulations.

Hazardous components for labelling:

### 2.3. Other Hazards

Labelling of special preparations (GHS):

Restricted to professional users.

This product is capable of dust explosion under certain circumstances.

## 3. Composition/Information on Ingredients

### 3.1. Substance

### 3.2. Mixture

Chemical Characterization:

Metal complex dye, C.I. Solvent Black 27

Information on Components / Hazardous Ingredients:

Reaction mass of Amines, C10-14-branched and linear alkyl, [1-[(2-hydroxy-4-nitrophenyl)azo]2-naphthalenolato(2)][1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2)]chromate(1-), Amines, C10-14 branched and linear alkyl, bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2)]chromate(1-)

C.I. Solvent Black 27 (H317-360D-373), REACH 80 - 100 %  
Reg. No. 01-2020764854-42

CAS-Nr:

EINECS-Nr: 939-191-9

EC-Nr:

Additional information:

## 4. First Aid Measures

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### 4. 1. Description of the First Aid Measures

*General information:*

*Remove contaminated clothes.  
Consult physician.  
First aiders have to protect themselves.*

*After inhalation:*

*Supply fresh air.  
In case of complaints consult a physician.*

*After skin contact:*

*Wash with soap and rinse with plenty of water.  
Remove contaminated clothing.*

*After eye contact:*

*Rinse open eyes with plenty of water for at least 15 minutes.  
Remove contact lens.  
Consult a physician.*

*After ingestion:*

*After swallowing larger amount of product give plenty of water to drink and rinse mouth thoroughly with water.  
Do NOT induce vomiting. Consult a doctor.*

### 4. 2. Most important Symptoms and Effects, both Acute and Delayed

*Symptoms:*

*Exposure to high concentrations of dust may result in upper respiratory tract (nose and throat) and pulmonary irritation.*

*Effects:*

*No further information available.*

### 4. 3. Indication of any Immediate Medical Attention and special Treatment needed

*Treatment:*

*Treat symptomatically.  
Contact Poison Control Center if large amounts are swallowed or inhaled.*

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## 5. Fire-Fighting Measures

### 5. 1. Extinguishing Media

*Suitable extinguishing media:*

*Foam, carbon dioxide (CO<sub>2</sub>), extinguishing powder, water spray.*

*Unsuitable extinguishing media:*

*Water with full jet.*

### 5. 2. Special Hazards arising from the Substance or Mixture

*Special hazards:*

*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.*

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*Further information:*

*Avoid formation of dust: risk of dust explosion.*

*Dispose of fire debris and contaminated extinguishing water in accordance with local regulations.*

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### 6. Accidental Release Measures

#### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

*Personal precautions:*

*Avoid formation of dust, wear protective clothing.*

#### 6.2. Environmental Precautions

*Environmental precautions:*

*Keep spills and cleaning runoff out of municipal sewers and open bodies of water.*

#### 6.3. Methods and Material for Containment and Cleaning Up

*Methods and material:*

*Contain with non-flammable absorbent material (e.g. sand, diatomaceous earth, vermiculite) and dispose accordingly.*

*Clean up with detergents.*

*Do not use solvents for cleaning.*

*Clean up mechanically. Avoid dust formation.*

#### 6.4. Reference to other Sections

*Protective clothing, see Section 8.*

*Dispose of contaminated material according to Section 13.*

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### 7. Handling and Storage

#### 7.1. Precautions for Safe Handling

*Instructions on safe handling:*

*Avoid contact with eyes, skin and clothing.*

*Respiratory protection when handling without exhaust system.*

*Avoid formation of dust. Do not inhale dust.*

*Hygienic measures:*

*Do not eat or drink during work. Do not smoke.*

#### 7.2. Conditions for Safe Storage, including any Incompatibilities

*Storage conditions:*

*Store in tightly sealed containers in a dry and cool room.*

*Protect against heat and direct sunlight.*

*Requirements for storage areas and containers:*

*Close open containers with care and store in an upright position to avoid spilling.*

*Keep container tightly closed.*

*Do not reuse container.*

*Information on fire and explosion protection:*

*Avoid dust formation. Protect against electrostatic charging.*

*Do not store together with ignitable sources, heat and fire.*

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*Storage class:*

6.1 C (TRGS 510), Combustible, acute toxic cat. 3 / toxic products  
(Containers with a capacity of up to 3 m<sup>3</sup>)

*Further Information:*

Storage temperature: 5 - 35°C

### 7.3. Specific End Use(s)

*Further information:*

No information available.

## 8. Exposure Controls/Personal Protection

### 8.1. Parameters to be Controlled

*Parameters to be controlled (DE):*

No occupational exposure limits known.

*Parameters to be controlled:*

*Derived No-Effect Level (DNEL):*

0.12 mg/m<sup>3</sup> (worker, inhalation, long-term exposure - systemic effects)

0.02 mg/kg (worker, skin contact, long-term exposure - systemic effects)

0.01 mg/kg (consumer, inhalation/skin contact, long-term exposure - systemic effects)

*Predicted No-Effect Concentration (PNEC):*

Fresh water: 0.1 mg/l

Seawater: 0.01 mg/l

Fresh water sediment: 70.5 mg/kg

Sea water sediment: 7.05 mg/kg

Sporadic release: 1 mg/l

Sewage treatment system (STP): 100 mg/l

Soil: 14 mg/kg

*Additional Information:*

### 8.2. Exposure Controls

*Technical protective measures:*

Provide adequate ventilation.

*Personal Protection*

*General protective measures:*

The usual precautionary measures are to be adhered to when handling chemicals.

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

*Respiratory protection:*

Suitable respiratory protection for lower concentration or short-term effect: particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, type P3 or FFP3).

*Hand protection:*

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*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:*

*Please note the manufacturers' detailed statements, especially  
about the minimum thickness and the minimum breakthrough time.  
Nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinyl  
chloride (0.7 mm).*

*Eye protection:*

*Safety glasses with protective shields (EN 166).*

*Body protection:*

*Protective antistatic clothing made of natural fibres or of high  
temperature-resistant synthetic fibres.*

*Environmental precautions:*

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

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## 9. Physical and Chemical Properties

### 9.1. Information on Basic Physical and Chemical Properties

<i>Form:</i>	<i>solid</i>
<i>Color:</i>	<i>black</i>
<i>Odor:</i>	<i>odorless</i>
<i>Odor threshold:</i>	<i>not applicable</i>
<i>pH-Value:</i>	<i>4 - 8 (10 g/l, 20°C)</i>
<i>Melting temperature:</i>	<i>&gt; 145°C The substance / product decomposes.</i>
<i>Boiling temperature:</i>	<i>not applicable</i>
<i>Flash point:</i>	<i>not applicable</i>
<i>Evaporation rate:</i>	<i>This product is a non-volatile solid.</i>
<i>Flammability (solid, gas):</i>	<i>not highly flammable</i>
<i>Upper explosion limit:</i>	<i>no information available</i>
<i>Lower explosion limit:</i>	<i>no information available</i>
<i>Vapor pressure:</i>	<i>not applicable</i>
<i>Vapor density:</i>	<i>This product is a non-volatile solid.</i>

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Density:	1.332 g/cm <sup>3</sup> (20°C; OECD 109)
Solubility in water:	insoluble
Coefficient of variation (n-Octanol/Water):	3 - 4 logKOW (20°C)
Auto-ignition temperature:	Product is not auto-ignitable (Test type: Spontaneous self-ignition at room temperature)
Decomposition temperature:	155°C, 930 kJ/kg (DSC (DIN 51007))
Viscosity, dynamic:	not applicable
Explosive properties:	Product does not present an explosion hazard.
Oxidizing properties:	not oxidizing
Bulk density:	300 - 500 kg/m <sup>3</sup>

### 9.2. Further Information

Solubility in solvents:	Soluble in organic solvents. Butanon: approx. 400 g/l, insoluble
Viscosity, kinematic:	
Burning class:	
Solvent content:	
Solid content:	
Particle size:	
Other information:	Decomposition point: > 145°C. Decays without melting. Self-heating ability: This product is self-heating (UN Test N.4) Based on test results packaging < 3 m <sup>3</sup> are exempted from the classification. SADT: > 75°C; Heat accumulation/Dewar 500 ml (SADT, UN-Test H.4, 28.4.4) Minimum ignition energy: > 10 - < 30 mJ (1013 hPa, 20°C) Minimum ignition energy: The product is capable of dust explosion. Deflagration: No propagation of a deflagration according to UN transport regulations. Hygroscopy: not hygroscopic Grain size distribution: 814 µm (D50, Volumetric Distribution, ISO 13320-1; particle size by laser distribution) Adsorption/water - soil: KOC: 7012; log KOC: 3.85 (calculated)

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## 10. Stability and Reactivity

### 10.1. Reactivity

No decomposition if used according to specifications.

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### 10.2. Chemical Stability

*Stable if used according to specifications.*

### 10.3. Possibility of Hazardous Reactions

*Risk of dust explosion.*

### 10.4. Conditions to Avoid

*Conditions to avoid:*

*Avoid formation of dust.*

*Avoid ignition sources.*

*Thermal decomposition:*

### 10.5. Incompatible Materials

*Strong acids, strong bases and strong oxidizing agents.*

### 10.6. Hazardous Decomposition Products

*None if stored and handled according to specifications.*

### 10.7. Further Information

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## 11. Toxicological Information

### 11. 1. Information on Hazard Classes as defined in Regulation (EC) No. 1272/2008

*Virtually non-toxic after a single skin contact.*

*Acute Toxicity*

*LD50, oral:*

*> 10000 mg/kg (rat; BASF)*

*LD50, dermal:*

*> 2000 mg/kg (rat; OECD 402)*

*LC50, inhalation:*

*not determined*

*Primary effects*

*Irritant effect on skin:*

*Non irritating (rabbit)*

*Irritant effect on eyes:*

*Non-irritating to eyes (rabbit)*

*Inhalation:*

*No information available.*

*Ingestion:*

*No information available*

*Sensitization:*

*Sensitizing (OECD 429, Mouse Local Lymph Node Assay (LLNA))*

*Mutagenicity:*

*Product shows a mutagenic effect in a test with bacteria.*

*The substance was not mutagenic in mammalian cell culture.*

*Reproductive toxicity:*

*Animal studies showed no adverse effect on the fertility.*

*Carcinogenicity:*

*No relevant data found.*

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### *Teratogenicity:*

*The substance caused malformations/developmental toxicity in animal studies (OECD 421/422).*

### *Specific target organ toxicity (STOT):*

*Single exposure: no information available.*

*Repeated exposure: causes mortality through prolonged or repeated exposure.*

### *Aspiration hazard*

*No information available.*

## 11.2. Information on other Hazards

## 12. Ecological Information

### 12.1. Aquatic Toxicity

*Not hazardous for aqueous organisms.*

#### *Fish toxicity:*

*LL50: > 100 mg/l (96h, Danio rerio; OECD 203)*

#### *Daphnia toxicity:*

*EL50: > 100 mg/l (48h, Daphnia magna; OECD 202)*

#### *Bacteria toxicity:*

*EC10: 100 mg/l (3h, active sludge; OECD 209)*

#### *Algae toxicity:*

*EL50: > 100 mg/l (7d, Lemna gibba; OECD 221)*

### 12.2. Persistency and Degradability

*Not readily biodegradable.*

*Not readily biodegradable.*

*Very insoluble product and can thus be removed from water mechanically in suitable effluent treatment plants.*

*Can be eliminated from water by chemical adsorption.*

*Elimination information: 0 - 10 % CO<sub>2</sub>-formation relative to the theoretical value (28d; OECD 301B; ISO 9439; 92/69/EEC, C.4-C; aerob. activated sludge)*

### 12.3. Bioaccumulation

*No information available.*

### 12.4. Mobility

*Does not evaporate from the surface of the water to the atmosphere.*

*Adsorption to solid soil phase is expected.*

### 12.5. Results of PBT- und vPvP Assessment

*According to Annex VIII to Regulation (EC) No. 1907/2006 (REACH): this product is neither a PBT (persistent/bioaccumulative/toxic) or vPvB (very persistent/very bioaccumulative/very toxic) substance nor does it contain a PBT or vPvB substance.*

### 12.6. Endocrine Disrupting Properties

### 12.7. Other Adverse Effects

#### *Water hazard class:*

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

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### *Behaviour in sewage systems:*

*No impairment of the biodegradability of active sludge expected when small amounts are discharged in biological sewage plants.*

### *Further ecological effects:*

*The product contains chromium bound as a complex.  
The product does not contain any substances which can deplete the ozone layer, according to Regulation (EC) 1005/2009*

### *AOX Value:*

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## 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:*

*Non-contaminated packaging may be recycled.  
Contaminated packaging must be disposed like the substance.*

#### *Waste Code No.:*

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## 14. Transport Information

### 14.1. UN Number

*ADR, IMDG, IATA*

### 14.2. UN Proper Shipping Name

#### *ADR/RID:*

*No hazardous goods according to ADR / DOT (US) (land transportation).*

#### *IMDG/IATA:*

*Not hazardous goods*

### 14.3. Transport Hazard Classes

#### *ADR Class:*

*not applicable*

#### *Hazard no.:*

#### *Classification code:*

#### *Tunnel restriction code:*

#### *IMDG Class (sea):*

*not applicable*

#### *Hazard no.:*

#### *EmS No.:*

#### *IATA Class:*

#### *Hazard no.:*

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### 14.4. Packaging Group

*ADR/RID:*

*not applicable*

*IMDG:*

*IATA:*

### 14.5. Environmental Hazards

*no*

### 14.6. Special Precautions for User

*none known*

### 14.7. Maritime Transport in Bulk according to IMO Instruments

*not applicable*

### 14.8. Further Information

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## 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 AwSV)*

*Local regulations on chemical accidents:*

*Not listed.*

*Employment restrictions:*

*Restriction and prohibition of application:*

*Restricted to professional users!*

*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

*Listed in the following inventories:*

*REACH (EU), TSCA (US), DSL (CA), AICS (AUS), ENCS (JP), KECI (KR), PICCS (PH), IECSC (CN), NZIoC (NZ), TCSI (TW)*

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## 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.*