

Safety Data Sheet

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



94406 Solvent Orange 11

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Revised edition: 08.08.2018

Version: 5.0

Printed: 18.01.2021

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

1.1. Product Identifier

Product Name: Solvent Orange 11

Article No.: 94406

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

Identified uses:

Coloring component

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)

Skin sensitization, hazard category 1B
Acute aquatic toxicity, hazard category 1
Chronic aquatic toxicity, hazard category 1
M-Factor: acute category 1
M-Factor: chronic category 1

H317 May cause an allergic skin reaction.

Cat.: 1

H400 Very toxic to aquatic life.

Cat.: 1

H410 Very toxic to aquatic life with long lasting effects.

Cat.: 1

Possible Environmental Effects:

2.2. Label Elements

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

Hazard designation:



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GHS09-1

Signal word:

Warning

Hazard designation:

H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Safety designation:

P261	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/ clothing/ eye/ face protection.
P303+P352	If on skin (or hair): wash with plenty of soap and water.
P333+P311	If skin irritation or rash occurs: Call a poison center or physician.
P362	Take off contaminated clothing and wash before reuse.
P391	Collect spillage
P501	Dispose of contents/ container according to regional, national and international regulations.

Hazardous components for labelling:

2.3. Other Hazards

*This product is capable of dust explosion under certain circumstances.
Once ignited, this product has the ability to continue to burn/decompose in the absence of air or oxygen.*

3. Composition/Information on Ingredients

3.1. Substance

3.2. Mixture

Chemical Characterization:

*Dye, woodstain. 1:2 Cobalt complex. C.I. Solvent Orange 11
Reaction mass of Amines, C12-14-tert-alkyl, bis[2,4-dihydro-5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)] cobaltate(1-) and sodium bis[2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)] cobaltate(1-)*

Information on Components / Hazardous Ingredients:

C.I. Solvent Orange 11 (H317-400-410); REACH Reg. No. 01-2120762832-50	> 90 %	CAS-Nr: 61725-76-6 EINECS-Nr: 612-349-1 EC-Nr:
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Additional information:

4. First Aid Measures

4.1. Description of the First Aid Measures

General information:

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Remove contaminated clothes.

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.

After ingestion:

Rinse mouth with water and drink plenty of water.

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

Symptoms:

No further information available.

Effects:

No further information available.

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

Treatment:

Symptomatic treatment (decontamination, vital functions), no specific antidote known.

5. Fire-Fighting Measures

5.1. Extinguishing Media

Suitable extinguishing media:

Water in copious quantities.

Soak with plenty of water, if possible using wetting agents.

Unsuitable extinguishing media:

Carbon dioxide, foam, dry extinguishing powder.

5.2. Special Hazards arising from the Substance or Mixture

Special hazards:

In case of fire: formation of carbon oxides, nitrous gases, cobalt oxides, toxic gases/vapours.

Once lit, the product can continue to burn or disintegrate in the absence of air or oxygen.

5.3. Advice for Firefighters

Protective equipment:

Wear self-contained respiratory protective device.

Further information:

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

Cool exposed containers with water spray.

6. Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

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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:

Small spills:

Clean up with suitable appliance and dispose adequately.

Large spills:

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.

7. Handling and Storage

7.1. Precautions for Safe Handling

Instructions on safe handling:

Respiratory protection when handling without exhaust system.

Avoid contact with eyes, skin and clothing.

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.

Requirements for storage areas and containers:

Store the product in the original container.

Information on fire and explosion protection:

Avoid dust formation. Protect against electrostatic charging.

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

Dust explosion class 2 (Kst-value 200 - 300 bar m/s).

Storage class:

11; Combustible solids (TRGS 510)

Further Information:

Segregate from chemicals which may react with water, because in case of fire water may be used.

The dry powder should not be exposed to strong mechanical forces.

7.3. Specific End Use(s)

Further information:

See Section 1.2.; no other uses provided

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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:

*Sodium bis[2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2)]cobaltate(1-) (CAS 71839-88-8):
TWA (CH): 0.05 mg/m³, inhalable dust (as Co)*

Amines, C12-18-alkyl, bis[2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)]cobaltate(1-) (CAS 85203-44-7): TWA (CH): 0,05 mg/m³, inhalable dust (as Co)

Derived No-Effect Level (DNEL):

No values available.

Predicted No-Effect Concentration (PNEC):

No values available.

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 P2 or FFP2).

Hand protection:

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:

Recommended: Protective index 6, > 480 min. of permeation time accord. EN 374.

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 clothing and shoes.

Environmental precautions:

Avoid contamination of sewage system, open water ways and

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ground water.

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

<i>Form:</i>	<i>powder</i>
<i>Color:</i>	<i>brownish</i>
<i>Odor:</i>	<i>odorless</i>
<i>Odor threshold:</i>	<i>No information available.</i>
<i>pH-Value:</i>	<i>7.7</i>
<i>Melting temperature:</i>	<i>> 300°C (OECD 102)</i>
<i>Boiling temperature:</i>	<i>not applicable</i>
<i>Flash point:</i>	<i>not applicable</i>
<i>Evaporation rate:</i>	<i>not applicable</i>
<i>Flammability (solid, gas):</i>	<i>Not a flammable solid according to UN transport regulations division 4.1 and GHS chapter 2.7.</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>
<i>Density:</i>	<i>1.375 g/cm³ (20°C)</i>
<i>Solubility in water:</i>	<i>0.18 g/l (20°C)</i>
<i>Coefficient of variation (n-Octanol/Water):</i>	<i>2.2 logKOW (20°C; OECD 107)</i>
<i>Auto-ignition temperature:</i>	<i>224°C</i> <i>Not self-igniting at room temperature.</i>
<i>Decomposition temperature:</i>	<i>230°C, 980 J/g</i> <i>(DSC (DIN 51007))</i>
<i>Viscosity, dynamic:</i>	<i>not applicable</i>
<i>Explosive properties:</i>	<i>Product does not present an explosion hazard.</i>

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Oxidizing properties:

not oxidizing

Bulk density:

ca. 310 kg/m³

9.2. Further Information

Solubility in solvents:

Ethyl acetate: > 170 g/l

Viscosity, kinematic:

Burning class:

Solvent content:

Solid content:

Particle size:

54 µm (D50)

Other information:

Ignition temperature: 420°C

Burning rate: 1.23 mm/s, 100 mm, 81 s

Self-heating ability: This product is not a self-heating substance according to the UN class 4.2 (UN Test N.4)

Minimum ignition energy: The product is capable of dust explosion.

Deflagration: < 0.35 mm/s (54°C)

Deflagration: No propagation of a deflagration according to UN transport regulations.

10. Stability and Reactivity

10.1. Reactivity

No decomposition if used according to specifications.

Formation of flammable gases: forms no flammable gases in the presence of water.

10.2. Chemical Stability

Stable if used according to specifications.

10.3. Possibility of Hazardous Reactions

Risk of dust explosion.

Once lit, the product can continue to burn or disintegrate in the absence of air or oxygen.

10.4. Conditions to Avoid

Conditions to avoid:

Avoid formation of dust.

Avoid ignition sources and electrostatic charging.

Thermal decomposition:

see section 9

10.5. Incompatible Materials

Strong acids, strong bases and strong oxidizing agents.

10.6. Hazardous Decomposition Products

Carbon oxides, nitrogen oxides, cobalt oxides, toxic fumes/vapors.

10.7. Further Information

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11. Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity

Practically not toxic after a single oral exposure.

LD50, oral:

> 5000 mg/kg (rat; OECD 401)

LD50, dermal:

No information available.

LC50, inhalation:

No information available.

Primary effects

Irritant effect on skin:

Non irritating (In vitro, rabbit; OECD 439)

Irritant effect on eyes:

Non-irritating to eyes (in vitro, rabbit; OECD 492)

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.

Reproductive toxicity:

No relevant data found.

Carcinogenicity:

No relevant data found.

Teratogenicity:

No information available.

Specific target organ toxicity (STOT):

Single exposure: no information available.

Repeated exposure: no information available.

Additional toxicological information:

Aspiration hazard: not applicable

12. Ecological Information

12.1. Aquatic Toxicity

Toxic for aquatic organisms. Controlled release of small amounts of product in biological sewage system do not cause disorders of the biodegradability of activated sludge.

Fish toxicity:

No data available.

Daphnia toxicity:

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EL50: 0.119 mg/l (48h, Daphnia magna; OECD 202)

Bacteria toxicity:

EC20: > 1000 mg/l (3h, active sludge; OECD 209)

Terrestrial Toxicity: no data available

Algae toxicity:

EL50: 25.7 mg/l (7d, Lemna gibba; OECD 221)

EL10: 1.04 mg/l (7d, Lemna gibba; OECD 221)

12.2. Persistency and Degradability

Not readily biodegradable.

Elimination information: < 10 % CO₂-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

No information available.

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. Other Adverse Effects

Water hazard class:

3, hazardous

Behaviour in sewage systems:

Treatment and discharge of waste water into biological treatment plant should be carried out according to official national and local regulations.

Further ecological effects:

The product contains cobalt bound as a complex.

Very toxic for water organisms. May cause long-term adverse effects in the aquatic environment.

The product does not contain any substances which can deplete the ozone layer, according to Regulation (EC) 1005/2009

AOX Value:

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:

Uncontaminated packaging may be recycled.

Contaminated packaging must be disposed like the substance.

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Waste Code No.:

14. Transport Information

14.1. UN Number

ADR, IMDG, IATA 3077

14.2. UN Proper Shipping Name

ADR/RID: UMWELTGEFÄHRDENDER STOFF, FEST, N.A.G. (enthält Natrium bis[2,4-Dihydro-4-[(2-Hydroxy-5-Nitrophenyl)Azo]-5-Methyl-2-Phenyl-3H-Pyrazol-3-Onato(2-)]Cob)

IMDG/IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains Na-bis[2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2

14.3. Transport Hazard Classes

ADR Class: 9
Hazard no.: 9
Classification code: M7
Tunnel restriction code: -
IMDG Class (sea): 9
Hazard no.: 9
EmS No.: F-A, S-F
IATA Class: 9
Hazard no.: 9

14.4. Packaging Group

ADR/RID: III
IMDG: III
IATA: III

14.5. Environmental Hazards

Labelling according 5.2.1.8 ADR/RID: fish and tree
Labelling according 5.2.1.6.3 IMDG: fish and tree
Labelled with "P" according 2.10 IMDG: yes

14.6. Special Precautions for User

none known

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

not evaluated

14.8. Further Information

15. Regulatory Information

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

Water hazard class:

3, very hazardous for water (according to the German Regulation AwSV)

Local regulations on chemical accidents:

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Employment restrictions:

Restriction and prohibition of application:

Not applicable.

Technical instructions on air quality:

15. 2. **Chemical Safety Assessment**

15. 3. **Further Information**

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

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.