

Safety Data Sheet

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



94408 Solvent Orange 99

Page 1

Revised edition: 20.06.2018

Version: 6.0

Printed: 18.01.2021

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

1.1. Product Identifier

Product Name: Solvent Orange 99

Article No.: 94408

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:

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)*

H302

Cat.: 4

H413

Cat.: 4

*Acute toxicity (oral), hazard category 4
Chronic aquatic toxicity, hazard category 4
Harmful if swallowed.*

May cause long lasting harmful effects to aquatic life.

Possible Environmental Effects:

2.2. Label Elements

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

Hazard designation:



GHS07-1

Signal word:

Warning

Hazard designation:

next page: 2

Safety Data Sheet

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



94408 Solvent Orange 99

Page 2

Revised edition: 20.06.2018

Version: 6.0

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H302	Harmful if swallowed.
H413	May cause long lasting harmful effects to aquatic life.

Safety designation:

P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P301+P330	If swallowed: Rinse mouth.
P312	Call a poison center or physician if you feel unwell.
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.

3. Composition/Information on Ingredients

3. 1. Substance

3. 2. Mixture

Chemical Characterization: Dye, woodstain. Metal complex dye, Solvent Orange 99

Information on Components / Hazardous Ingredients:

Amines, C10-14-branched and linear Alkyl-, bis [2,4-dihydro-4[(2-hydroxy-5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)]chromate (1-) (1:1) (H302-413); REACH Reg.No. 01-2120763008-50-0000	75 - 100 %	CAS-Nr: 84961-40-0 EINECS-Nr: 284-628-2 EC-Nr:
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Additional information:

4. First Aid Measures

4. 1. Description of the First Aid Measures

General information:

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:

next page: 3

Safety Data Sheet

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



94408 Solvent Orange 99

Page 3

Revised edition: 20.06.2018

Version: 6.0

Printed: 18.01.2021

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:

Extinguishing powder, foam.

Unsuitable extinguishing media:

Carbon dioxide (CO₂)

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.

Further information:

Avoid formation of dust: risk of dust explosion.

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

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:

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:

next page: 4

Safety Data Sheet

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



94408 Solvent Orange 99

Page 4

Revised edition: 20.06.2018

Version: 6.0

Printed: 18.01.2021

*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:

No special measures necessary.

Information on fire and explosion protection:

*Avoid dust formation. Protect against electrostatic charging.
Do not store together with ignitable sources, heat and fire.*

Storage class:

11; Combustible solids (TRGS 510)

Further Information:

7. 3. Specific End Use(s)

Further information:

See Section 1.2.; no other uses provided

8. Exposure Controls/Personal Protection

8. 1. Parameters to be Controlled

Parameters to be controlled (DE):

No exposure limits for this product.

Parameters to be controlled:

Amines, C10-14-branched and linear Alkyl-, bis[2,4-dihydro-4[(2-hydroxy-5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato (2-)] chromate(1-) (1:1) (CAS 84961-40-0): TWA (CH): 0.5 mg/m³, inhalable dust (measured as chromium (Cr))

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

next page: 5

Safety Data Sheet

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



94408 Solvent Orange 99

Page 5

Revised edition: 20.06.2018

Version: 6.0

Printed: 18.01.2021

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:

Environmental precautions:

Avoid contamination of sewage system, open water ways and ground water.

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

Form: powder

Color: orange

Odor: odorless

Odor threshold:

No information available.

pH-Value: ca. 6.8 (0.05 g/l, 20°C)

Melting temperature: 190 - 200°C

Boiling temperature:

not applicable

Flash point:

not applicable

Evaporation rate:

This product is a non-volatile solid.

Flammability (solid, gas):

not easily flammable

Upper explosion limit:

not determined

Lower explosion limit:

next page: 6

Safety Data Sheet

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



94408 Solvent Orange 99

Page 6

Revised edition: 20.06.2018

Version: 6.0

Printed: 18.01.2021

not determined

Vapor pressure:

not applicable

Vapor density:

This product is a non-volatile solid.

Density:

ca. 1.369 g/cm³ (20°C)

Solubility in water:

insoluble

Coefficient of variation (n-Octanol/Water):

> 5.7 log Kow (20°C, pH 6.5)

Auto-ignition temperature:

Product is not auto-ignitable.

Decomposition temperature:

No decomposition if used according to specifications.

Viscosity, dynamic:

not applicable

Explosive properties:

Product does not present an explosion hazard.

Oxidizing properties:

not oxidizing

Bulk density:

100 - 450 kg/m³

9.2. Further Information

Solubility in solvents:

*Soluble in organic solvents.
Ethanol 96 %: 100 g/l*

Viscosity, kinematic:

Burning class:

Solvent content:

Solid content:

Particle size:

Other information:

Burning rate: The material doesn't meet the criteria specified in paragraph 33.2.1.4.4 of UN manual of tests and criteria.

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

Deflagration: < 0.35 mm/s (78°C)

Hygroscopy: not hygroscopic

10. Stability and Reactivity

next page: 7

Safety Data Sheet

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



94408 Solvent Orange 99

Page 7

Revised edition: 20.06.2018

Version: 6.0

Printed: 18.01.2021

10.1.	Reactivity	<i>No decomposition if used according to specifications.</i>
10.2.	Chemical Stability	<i>Stable if used according to specifications.</i>
10.3.	Possibility of Hazardous Reactions	<i>Risk of dust explosion.</i>
10.4.	Conditions to Avoid	<i>Conditions to avoid:</i> <i>Avoid formation of dust.</i> <i>Avoid ignition sources.</i> <i>Thermal decomposition:</i>
10.5.	Incompatible Materials	<i>Strong acids, strong bases and strong oxidizing agents.</i>
10.6.	Hazardous Decomposition Products	<i>None if stored and handled according to specifications.</i>
10.7.	Further Information	
11.	Toxicological Information	
11. 1.	Information on Toxicological Effects	
	<i>Acute Toxicity</i>	<i>Moderate toxicity after single intake. The substance was of low dermal toxicity in experimental animals if applied as a solid or suspension. Acute dermal toxicity is however observed if the substance is applied as a solution in an organic solvent.</i>
	<i>LD50, oral:</i>	<i>1400 mg/kg (rat)</i>
	<i>LD50, dermal:</i>	<i>not determined</i>
	<i>LC50, inhalation:</i>	<i>not determined</i>
	<i>Primary effects</i>	
	<i>Irritant effect on skin:</i>	<i>Non irritating (In vitro, rabbit; OECD 439)</i>
	<i>Irritant effect on eyes:</i>	<i>Non-irritating to eyes</i>
	<i>Inhalation:</i>	<i>No information available.</i>
	<i>Ingestion:</i>	<i>No information available</i>
	<i>Sensitization:</i>	<i>Skin sensitizing effects were not observed in animal studies.</i> <i>Non sensitizing (OECD 429, Mouse Local Lymph Node Assay (LLNA))</i> <i>Mortality was observed in mice following repeated dermal</i>

Safety Data Sheet

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



94408 Solvent Orange 99

Page 8

Revised edition: 20.06.2018

Version: 6.0

Printed: 18.01.2021

application to ears.

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 organospecific toxicity expected.

Repeated exposure: no information available.

Additional toxicological information:

Aspiration hazard: not applicable

12. Ecological Information

12.1. Aquatic Toxicity

Not hazardous for aqueous organisms.

Fish toxicity:

Daphnia toxicity:

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

Bacteria toxicity:

EC20: > 1000 mg/l (0.5h, active sludge; OECD 209)

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

Algae toxicity:

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

EL10: > 100 mg/l (7d, Lemna gibba; OECD 221)

12.2. Persistency and Degradability

Inorganic product is not very soluble in water and can thus be removed from water mechanically in suitable effluent treatment plants.

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.

next page: 9

Safety Data Sheet

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



94408 Solvent Orange 99

Page 9

Revised edition: 20.06.2018

Version: 6.0

Printed: 18.01.2021

12. 6. Other Adverse Effects

Water hazard class:

1, slightly hazardous

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 (III) 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:

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.*

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:

next page: 10

Safety Data Sheet

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



94408 Solvent Orange 99

Page 10

Revised edition: 20.06.2018

Version: 6.0

Printed: 18.01.2021

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

15. Regulatory Information

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

Water hazard class:

1, slightly hazardous for water (German Regulation, Assessment by list)

Local regulations on chemical accidents:

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) 2037/2000 - 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.