

Safety Data Sheet

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



94404 Solvent Yellow 89

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Revised edition: 03.08.2017

Version: 4.1

Printed: 13.01.2023

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

1.1. Product Identifier

Product Name: Solvent Yellow 89

Article No.: 94404

UFI: --

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)

*Hazardous to the aquatic environment, acute hazard category 1
Chronic aquatic toxicity, hazard category 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:



GHS09-1

Signal word:

Warning

Hazard designation:

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H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Safety designation:

P273	Avoid release to the environment.
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.

3. Composition/Information on Ingredients

3.1. Substance

3.2. Mixture

Chemical Characterization: 1:2 Cobalt complex, Solvent Yellow 89

Information on Components / Hazardous Ingredients:

Cobaltate(1-), bis[2-(3-chlorophenyl)-2,4-dihydro-4-[[2-hydroxy-5-(methylsulfonyl)phenyl]azo]-5-methyl-3H-pyrazol-3-onato(2-)-, hydrogen, compd.	100 %	CAS-Nr: 20506-24-5 EINECS-Nr: 243-855-7 EC-Nr:
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with [1R-(1a,4aβ,10aa)]-1,2,3,4,4a,9,10,10a-octahydro-1,4a-dimethyl-7-(1-methylethyl)-1-phenathrenemethanamine (1:1) (H400-410)		CAS-Nr: EINECS-Nr: 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.

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Effects:

No further information available.

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

Treatment:

Treat symptomatically.

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.

In case of fire: formation of carbon and nitrogen oxides, sulfur oxides, toxic gases/vapors.

Hydrogen chloride, cobalt oxides.

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.

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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 1 (Kst-value > 0 - 200 bar m/s).*

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:

Derived No-Effect Level (DNEL):

Predicted No-Effect Concentration (PNEC):

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

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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, corresponding > 480 min. of permeation time according to 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: yellow

Odor: odorless

Odor threshold: no information available

pH-Value: 6.6 - 7.8 (suspension)

Melting temperature: not applicable

Boiling temperature: not applicable

Flash point: not applicable

Evaporation rate: This product is a non-volatile solid.

Flammability (solid, gas): 380°C

Upper explosion limit: no information available

Lower explosion limit:

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no information available

Vapor pressure:

not applicable

Vapor density:

Density:

1.38 g/cm³ (20°C)

Solubility in water:

insoluble

Coefficient of variation (n-Octanol/Water):

> 4 logKOW

not applicable

Auto-ignition temperature:

Product is not auto-ignitable (Test type: Spontaneous self-ignition at room temperature)

Decomposition temperature:

220°C (760 J/g)

Viscosity, dynamic:

not applicable

Explosive properties:

Product does not present an explosion hazard.

Oxidizing properties:

no information available

Bulk density:

ca. 360 kg/m³

9.2. Further Information

Solubility in solvents:

Viscosity, kinematic:

Burning class:

Solvent content:

Solid content:

Particle size:

71 µm

Other information:

Minimum ignition energy: 3 - 10 mJ

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

10. Stability and Reactivity

10.1. Reactivity

No decomposition if used according to specifications.

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:

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Avoid formation of dust.

Avoid ignition sources.

Thermal decomposition:

see section 9

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

11. Toxicological Information

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

Acute Toxicity

LD50, oral: > 5000 mg/kg (rat; 401)

LD50, dermal: not determined

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: Non sensitizing.

Mutagenicity: No relevant data found.

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.*

Aspiration hazard

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Not applicable

11.2. Information on other Hazards

No further information available.

12. Ecological Information

12.1. Aquatic Toxicity

Toxic for aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Fish toxicity:

Daphnia toxicity:

EC50: 0.997 mg/l (48h, Daphnia magna; OECD 202)

Bacteria toxicity:

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

Algae toxicity:

No information available.

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.

Not biodegradable.

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. Endocrine Disrupting Properties

Not listed.

12.7. Other Adverse Effects

Water hazard class:

*2 (German Regulation) (Assessment by list): hazardous.
Do not let run into surface waters, waste water or soil.*

Behaviour in sewage systems:

Treatment in biological waste treatment plant has to be performed according to local and administrative regulations.

Further ecological effects:

The product contains cobalt bound as a complex.

AOX Value:

Product contains according to the formulation, organically bound halogen. It can increase the AOX-value in the water purification plants overflow or if it reaches waters.

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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.:

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 C.I. Solvent Yellow 89)

IMDG/IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains Solvent Yellow 89)

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

Labelled with "P" according 2.10 IMDG: yes

14.6. Special Precautions for User

14.7. Maritime Transport in Bulk according to IMO Instruments

not applicable

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14.8. Further Information

15. Regulatory Information

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

Water hazard class:

2, hazardous for water (German Regulation, Assessment by list)

Local regulations on chemical accidents:

Employment restrictions:

Restriction and prohibition of application:

Technical instructions on air quality:

15.2. Chemical Safety Assessment

A Chemical Safety Assessment has not yet been carried out for this product.

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.