

Safety Data Sheet

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



94402 Solvent Yellow 88

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Revised edition: 29.05.2018

Version: 4.0

Printed: 06.11.2018

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

1.1. Product Identifier

Product Name: Solvent Yellow 88

Article No.: 94402

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.de

E-Mail: info@kremer-pigmente.de

Importer: --

1.4. Emergency No.

Emergency No.: +49 7565 914480 (Mon-Fri 8:00 - 17:00)

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 1
Chronic aquatic toxicity, hazard category 2
May cause an allergic skin reaction.

H317

Cat.: 1

H411

Cat.: 2

Toxic to aquatic life with long lasting effects.

Classification according to Directive No. 67/548/EC or No. 1999/45/EC

Hazardous to the environment (N) R51 Toxic to aquatic organisms.

R53 May cause long-term adverse effects in the aquatic environment.

Safety Phrases:

Possible Environmental Effects:

2.2. Label Elements

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

Hazard designation:

GHS07

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GHS09-1

Signal word:

Warning

Hazard designation:

H317 May cause an allergic skin reaction.
H411 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.
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. 1:2 Chromium complex, C.I. Solvent Yellow 88

Information on Components / Hazardous Ingredients:

Amines, C12-14-tert.-Alkyl-, bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate(1-) (N; R51/53; H317-411); REACH Reg. No. 01-2120766190-58	75 - 100 %	CAS-Nr: 85408-46-4 EINECS-Nr: 287-007-4 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.

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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:

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.

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

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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.

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.

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

Storage class (VCI):

11; Combustible solids

Further Information:

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):

TRGS 900

TLV: 1.25 mg/m³ air-borne fraction (general dust limit)

TLV: 10 mg/m³ inhalable fraction (general dust limit)

Peak limit category 2

Category II: substances with a resorptive effect.

Parameters to be controlled:

Derived No-Effect Level (DNEL):

Predicted No-Effect Concentration (PNEC):

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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:

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: ca. 7.1

Melting temperature: ca. 290°C

Boiling temperature:
not applicable

Flash point:
not applicable

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Evaporation rate:

not applicable

Flammability (solid, gas):

*370°C (VDI 2263)
not easily flammable*

Upper explosion limit:

no information available

Lower explosion limit:

no information available

Vapor pressure:

not applicable

Vapor density:

Density:

1.27 g/cm³ (20°C)

Solubility in water:

practically insoluble

Coefficient of variation (n-Octanol/Water):

4.6 logKOW (20°C; pH 6.5)

Auto-ignition temperature:

Product is not auto-ignitable.

Decomposition temperature:

*285°C, 330 J/g
(DSC (DIN 51007))
Not a substance liable to self-decomposition according to UN transport regulations, class 4.1*

Viscosity, dynamic:

not applicable

Explosive properties:

Product does not present an explosion hazard.

Oxidizing properties:

not oxidizing

Bulk density:

ca. 370 kg/m³

9.2. Further Information

Solubility in solvents:

Viscosity, kinematic

Burning class:

Solvent content:

Solid content:

Particle size:

273 µm

Other information:

*Burning rate: 200 mm, > 4 min.
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.*

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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:

Avoid formation of dust.

Avoid ignition sources and electrostatic charging.

Thermal decomposition:

No data available.

10.5. Incompatible Materials

Strong acids, strong bases and strong oxidizing agents.

10.6. Hazardous Decomposition Products

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

10.7. Further Information

11. Toxicological Information

11.1. Information on Toxicological Effects

Product shows practically no toxicity after a single oral or inhalative exposure.

Acute Toxicity

LD50, oral:

> 5000 mg/kg (rat)

LD50, dermal:

No information available.

LC50, inhalation:

> 9.5 mg/l (4h; rat)

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 does not show a mutagenic effect in a test with bacteria.

Reproductive toxicity:

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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

Toxic for aquatic organisms.

Fish toxicity:

LC50: 10 mg/l (96h, Danio rerio; OECD 203)

Daphnia toxicity:

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

Bacteria toxicity:

EC50: > 100 mg/l (3h, active sludge; OECD 209)

Algae toxicity:

EL50: > 1.3 mg/l (7d, Lemna gibba; OECD 221)

EL10: 0.322 mg/l (7d, Lemna gibba; OECD 221)

12.2. Persistency and Degradability

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

Not readily 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. Other Adverse Effects

Water hazard class:

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

Toxic to water organisms.

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The product contains Chromium (III) bound as a complex.

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:

Untaminated packaging may be recycled.

Packaging may be disposed of in the same manner as the product.

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 Aminosalz eines 2:1 Monoazo/Chromkomplexes)

IMDG/IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains Amino salt of 1:2 Monoazo/Chromium complex)

14.3. Transport Hazard Classes

ADR Class: 9

Hazard no.: 9

Classification code: M7

Tunnel restriction code: E

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

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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:

2, 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

A Chemical Safety Assessment has been carried out for the component substances contained in 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.