

Safety Data Sheet

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



94401 Solvent Yellow 82

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Revised edition: 06.07.2021

Version: 5

Printed: 11.10.2022

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

1.1. Product Identifier

Product Name: Solvent Yellow 82

Article No.: 94401

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:

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)*

H317

Cat.: 1

H411

Cat.: 2

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

Toxic to aquatic life with long lasting effects.

Possible Environmental Effects:

2.2. Label Elements

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

Hazard designation:



GHS07-1

GHS09

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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.
P391 Collect spillage
P501 Dispose of contents/ container according to regional, national and international regulations.

Hazardous components for labelling:

Amine, C10-14-branched and linear Alkyl-, Bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate (1-)

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: Metal complex, C.I. Solvent Yellow 82

Information on Components / Hazardous Ingredients:

Amine, C10-14-branched and linear Alkyl-, Bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate(1-) (H317-411); REACH Reg. No. 01-2120756276-48-0000	80 - 100 %	CAS-Nr: 85029-58-9 EINECS-Nr: 285-083-3 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:

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:

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

5. Fire-Fighting Measures

5.1. Extinguishing Media

Suitable extinguishing media:

Foam, carbon dioxide (CO₂), 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.

In case of fire: formation of carbon oxides, nitrous gases, chromium oxide.

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:

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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.

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:

Store the product in the original container.

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

Information on fire and explosion protection:

Avoid dust formation. Protect against electrostatic charging.

Keep away from sources of heat and ignition - do not smoke.

Storage class:

11; Combustible solids (TRGS 510)

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:

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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, 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:

Protective clothing, chemical resistant.

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: 4 - 8 (10 g/l, 20°C)

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Melting temperature:	> 215°C
Boiling temperature:	100°C (212°F)
Flash point:	not applicable
Evaporation rate:	This product is a non-volatile solid.
Flammability (solid, gas):	not highly flammable
Upper explosion limit:	no information available
Lower explosion limit:	no information available
Vapor pressure:	not applicable
Vapor density:	This product is a non-volatile solid.
Density:	1.337 g/cm ³ (20°C)
Solubility in water:	insoluble
Coefficient of variation (n-Octanol/Water):	5 log KOW (20°C)
Auto-ignition temperature:	Product is not auto-ignitable (Test type: Spontaneous self-ignition at room temperature)
Decomposition temperature:	> 215°C, 290 J/g (DSC (DIN 51007))
Viscosity, dynamic:	not applicable
Explosive properties:	Product is not explosive; however, an explosive dust/air mixture can be formed.
Oxidizing properties:	not oxidizing
Bulk density:	250 - 400 kg/m ³
9.2. Further Information	
Solubility in solvents:	
Viscosity, kinematic:	
Burning class:	
Solvent content:	
Solid content:	
Particle size:	

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Other information:

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: > 10 - < 30 mJ (1013 hPa, 20°C)
SADT: > 75°C; Heat accumulation/Dewar 500 ml (SADT, UN-Test H.4, 28.4.4)
Hygroscopy: not hygroscopic
Grain size distribution: 26 µm (D50, Volumetric Distribution, ISO 13320-1; particle size by laser distribution)

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.

10.4. Conditions to Avoid

Conditions to avoid:

Avoid formation of dust.
Avoid ignition sources.

Thermal decomposition:

No data available.

10.5. Incompatible Materials

Strong acids, strong bases and strong oxidizing agents.

10.6. Hazardous Decomposition Products

In the event of fire: see part 5.

10.7. Further Information

11. Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity

Practically not toxic after a single oral exposure. The inhalation of a highly enriched/saturated vapor-air-mixture does not cause an acute hazard. Almost not toxic after single contact with skin.

LD50, oral:

> 5000 mg/kg (rat, BASF)

LD50, dermal:

> 2500 mg/kg (rat; BASF)

LC50, inhalation:

> 2.33 mg/l (7h, rat; IRT)

Primary effects

Irritant effect on skin:

Non irritating (rabbit)
Non irritating (In vitro, rabbit; OECD 439)

Irritant effect on eyes:

Non-irritating to eyes (rabbit)

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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 does not show 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.

Fish toxicity:

No data available.

Daphnia toxicity:

EL50: 41.6 mg/l (48h, Daphnia magna; OECD 202)

Bacteria toxicity:

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

Algae toxicity:

EL10: 0.577 mg/l (7d, Lemna gibba; OECD 221)

EL50: 6.74 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.

Elimination information: < 10 % CO₂-formation relative to the theoretical value (28d; OECD 301B; ISO 9439; 92/69/EEC, C.4-C; aerob. activated sludge)

No hydrolysis expected due to its structure.

12.3. Bioaccumulation

No information available.

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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:

*The product contains chromium bound as a complex.
The product does not contain any substances which can deplete the ozone layer, according to Section I of EC-Directive 2037/2000/EC.*

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:

*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 82)

IMDG/IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains C.I. Solvent Yellow 82)

14. 3. Transport Hazard Classes

ADR Class: 9

Hazard no.: 9

Classification code: M7

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	<i>Tunnel restriction code:</i>	-
	<i>IMDG Class (sea):</i>	9
	<i>Hazard no.:</i>	9
	<i>EmS No.:</i>	F-A, S-F
	<i>IATA Class:</i>	9
	<i>Hazard no.:</i>	9
14. 4.	Packaging Group	
	<i>ADR/RID:</i>	III
	<i>IMDG:</i>	III
	<i>IATA:</i>	III
14. 5.	Environmental Hazards	
		<i>Labelling according 5.2.1.8 ADR/RID: fish and tree</i>
		<i>Labelling according 5.2.1.6.3 IMDG: fish and tree</i>
		<i>Labelled with "P" according 2.10 IMDG: yes</i>
14. 6.	Special Precautions for User	
		<i>none known</i>
14. 7.	Transportation in Bulk according to Annex II of MARPOL 73/78 and IBC-Code	
		<i>not evaluated</i>
14. 8.	Further Information	
15.	Regulatory Information	
15. 1.	Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture	
	<i>Water hazard class:</i>	<i>2, hazardous for water (according to the German Regulation AwSV)</i>
	<i>Local regulations on chemical accidents:</i>	
	<i>Employment restrictions:</i>	
	<i>Restriction and prohibition of application:</i>	<i>EC. REACH, Section XVII, Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles: not applicable</i>
	<i>Technical instructions on air quality:</i>	
15. 2.	Chemical Safety Assessment	
		<i>A Chemical Safety Assessment has been carried out for this product.</i>
15. 3.	Further Information	
		<i>Listed in the following inventories:</i>
		<i>EINECS (285-083-3), TSCA (US), AICS (AUS), DSL/ INV (CA), ENCS (JP), KECI (KR), PICCS (PH), IECSC (CN), NZIoC (NZ), TCSI (TW)</i>
		<i>EC. REACH, Annex XIV, Candidate List of Substances of very High Concern (SVHC): not regulated / not applicable</i>

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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.