94402 Solvent Yellow 88

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

1. 1. Product Identifier

Product Name:	*Solvent Yellow 88*
Article No.:	*94402*
UFI:	*D81W-K1FD-1009-95FW*

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

Identified uses:	*Coloring component*
Uses advised against:	*Not applicable.*

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*
EMail:	*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 1
Chronic aquatic toxicity, hazard category 2

H317	May cause an allergic skin reaction.
Cat.: 1	
H411	Toxic to aquatic life with long lasting effects.
Cat.: 2	

Possible Environmental Effects:

2. 2. Label Elements

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

Hazard designation:

GHS07

GHS09-1

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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.
P273	Avoid release to the environment.
P280	Wear protective gloves/ clothing/ eye/ face protection.
P302+P352	If on skin: Wash with soap and water.
P333+P313	If skin irritation or rash occurs: Get medical attention.
P501	Dispose of contents/ container according to regional, national and international regulations.

Hazardous components for labelling:

2. 3. Other Hazards

Can cause combustible dust concentrations in the air.
Dust may be produced when working with this material, which can cause a mechanical irritation of eyes, nose and respiratory tract.

3. Composition/Information on Ingredients

3. 1. Substance

3. 2. Mixture

Chemical Characterization: *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-) (H317-411); REACH Reg. No. 01-2120766190-58	80 - 100 %	CAS-Nr: 85408-46-4 EINECS-Nr: 287-007-4 EC-Nr:

Additional information:

4. First Aid Measures

4. 1. Description of the First Aid Measures

General information:

If symptoms occur, or in case of doubt seek medical advice.
In case of unconsciousness give nothing by mouth, place in stable side position and seek medical advice.

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.
Do not use solvents or thinners.

After eye contact:

Rinse open eyes with plenty of water for at least 15 minutes.
Remove contact lenses, if present and easy to do.

After ingestion:

After swallowing larger amount of product give plenty of water to drink and rinse mouth thoroughly with water.
Do NOT induce vomiting. Consult a doctor.

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:

4. 3. Indication of any Immediate Medical Attention and special Treatment needed

Treatment:

Treat symptomatically.
Contact Poison Control Center if large amounts are swallowed or inhaled.

5. Fire-Fighting Measures

5. 1. Extinguishing Media

Suitable extinguishing media:

Foam, carbon dioxide (CO2), extinguishing powder, water mist.

Unsuitable extinguishing media:

Water with full jet.

5. 2. Special Hazards arising from the Substance or Mixture

Special hazards:

In case of fire: hazardous fumes may be released.
In case of fire: formation of carbon oxides, nitrogen 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. Accidential 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:

Contain with non-flammable absorbent material (e.g. sand, diatomaceous earth, vermiculite) and dispose accordingly.
Clean up with detergents.
Do not use solvents for cleaning.

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.
Wear adequate protective clothing (see para. 8).
Avoid formation of dust.

Hygienic measures:

Do not eat or drink during work. Do not smoke.
Remove contaminated clothing before entering dining areas.

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, ignition sources and direct sunlight.

Requirements for storage areas and containers:

Close open containers with care and store in an upright position to avoid spilling.
Keep container tightly closed.
Do not reuse 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:

11; Combustible solids (TRGS 510)

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):

Does not contain any components with workplace limit values.

Parameters to be controlled:

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:

Please note the manufacturers´ detailed statements, especially about the minimum thickness and the minimum breakthrough time.

Eye protection:

Safety glasses with protective shields (EN 166).

Body protection:

Protective antistatic clothing made of natural fibres or of high temperature-resistant systhetic fibres.

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*
Evaporation rate:	*not applicable*
Flammability (solid, gas):	*Not a flammable solid according to UN transport regulations division 4.1 and GHS chapter 2.7.*
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:	*370°C (698°F)* *Product is not auto-ignitable (Test type: Spontaneous self-ignition at room temperature)*
Decomposition temperature:	*285°C, 330 J/g* *(DSC (DIN 51007))* *Not a substance liable to self-decompostion 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:

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.

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. Imcompatible 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 Hazard Classes as defined in Regulation (EC) No. 1272/2008

Product shows practically no toxicity after a single oral or inhalative exposure.
Exposure to airborne concentrations above the legal or recommended limits may cause irritation of the nose, throat and lungs.

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:

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.

Aspiration hazard:

No information available.

11. 2. Information on other Hazards

No further information available.

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.
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. Endocrine Disrupting Properties

Not listed.

12. 7. 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.
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:

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 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:	*-*
	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. Maritime Transport in Bulk according to IMO Instruments

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 (according to the German Regulation AwSV)

Local regulations on chemical accidents:

Seveso-III Directive (2012/18/EU):
Category E2: Environmentally hazardous (aquatic environment, cat. 1): Amount 2: 200 t; Amount 3: 500 t

Employment restrictions:

Restriction and prohibition of application:

Not applicable.

Technical instructions on air quality:

5.2.2.: 99.7 % (Classification III); 5.2.5: 0.3 %

15. 2. Chemical Safety Assessment

A Chemical Safety Assessment is not necessary for this product.

15. 3. Further Information

Listed in the following inventories:
REACH (EU), TSCA (US), DSL (CA), AICS (AUS), ENCS (JP), KECI (KR), PICCS (PH), IECSC (CN), NZIoC (NZ), TCSI (TW)
VOC Content: 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.