94711 Fluorescent Orange Varnish

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

1. 1. Product Identifier

Product Name: *Fluorescent Orange Varnish*

Article No.: *94711*

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

Identified uses:

Coloring agent

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*

EMail: *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)

Flammable liquids, hazard category 2
Eye irritation, hazard category 2
Specific Target Organ Toxicity (single exposure), hazard category 3

	H225	Highly flammable liquid and vapour.
	Cat.: 2	
	H319	Causes serious eye irritation.
	Cat.: 2	
	H336	May cause drowsiness or dizziness.
	Cat.: 3	

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

Flammable (F)	R11	Highly flammable
Irritating (Xi)	R36	Irritating to eyes.
	R66	Repeated exposure may cause skin dryness or cracking.
	R67	Vapours may cause drowsiness and dizziness.

Safety Phrases:

Possible Environmental Effects:

See Section 12.

2. 2. Label Elements

Classification according to Regulation

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(EC) No. 1272/2008 (CLP/GHS)

Hazard designation:

GHS02-2

GHS07

Signal word:

Danger

Hazard designation:

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

Safety designation:

P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P280	Wear protective gloves/ clothing/ eye/ face protection.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses and continue rinsing.
P403+P233	Store in a well ventilated place. Keep container tightly closed.

Hazardous components for labelling:

2. 3. Other Hazards

3. Composition/Information on Ingredients

3. 1. Substance

3. 2. Mixture

Chemical Characterization: *Fluorescent orange dissolved in ethyl acetate with Paraloid® B 72*

Information on Components / Hazardous Ingredients:

Ethyl acetate (F,Xi; R11-36-66/67; H225-319-336); REACH Reg. No. 01-2119475103-46-xxxx	85-90 %	CAS-Nr: 141-78-6 EINECS-Nr: 205-500-4 EC-Nr: 607-022-00-5

Additional information:

4. First Aid Measures

4. 1. Description of the First Aid Measures

General information:

Take person away from hazardous area.
Remove contaminated clothes immediately.

After inhalation:

Supply fresh air. If required give artificial respiration. Keep patient

warm.

Give artificial respiration in case breathing is not regular or if it has stopped.

In case of unconsciousness place patient stable in side position for transportation.

After skin contact:

Remove contaminated clothing immediately. Wash off immediately with plenty of water and soap.

If irritation continues consult a physician.

After eye contact:

Rinse open eyes with plenty of water for at least 5 minutes.

Consult a physician immediately.

If possible bring to an eye clinic.

After ingestion:

Rinse mouth with water and give plenty of water to drink. Consult a physician. Never give anything by mouth to an unconscious person.

Do not induce vomiting. Consult physician immediately.

In case of spontaneous vomiting, bring unconsciousness person in a stable side position.

4. 2. Most important Symptoms and Effects, both Acute and Delayed

Symptoms:

Inhalation: can cause pain in the nose and throat, coughing and headache.

Skin contact: degreases skin causing dry and rough skin. Prolonged contact may cause dermatitis.

Eye contact: burning

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:

Foam, carbon dioxide (CO2), extinguishing powder, water spray jet.

Unsuitable extinguishing media:

Water with full jet.

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

Special hazards:

The vapor is heavier than air, spreads along the ground and distant ignition is possible.

Fumes can form an explosive mixture with air.

In case of fire: formation of carbon monoxide and dioxide.

Risk of bursting of closed containers due to strong heating.

5. 3. Advice for Firefighters

Protective equipment:

Wear self-contained respiratory protective device.
Wear suitable protective clothing.

Further information:

Cool closed containers exposed to fire with water mist.
Collect contaminated extinguishing water and debris separately; avoid contamination of sewage system.

6. Accidential Release Measures

6. 1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

Wear appropriate protective equipment. Keep spectators away.
Ensure adequate ventilation.
Keep away from sources of heat and ignition.
Avoid contact with skin and eyes. Do not ingest or inhale.

6. 2. Environmental Precautions

Environmental precautions:

Contact local authorities if product pollutes soil or vegetation.
Do not discharge into drains, surface or ground water in concentrated form.

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.

6. 4. Reference to other Sections

Protective clothing, see Section 8.
See Section 13 for information on disposal.

7. Handling and Storage

7. 1. Precautions for Safe Handling

Instructions on safe handling:

Keep containers tightly closed.
Do not inhale vapors or mist.
A nearby eyewash facility should be available for emergencies.

Hygienic measures:

Avoid contact with eyes and skin.
Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.

7. 2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:

Store in tightly sealed containers in a cool and well ventilated location.
Protect against heat and direct sunlight.
Do not store together with food stuff and animal feed.

Requirements for storage areas and

containers:

Store in a room with a solvent-proof floor.

Information on fire and explosion protection:

Keep away from sources of ignition - do not smoke. Take measures to prevent electrostatic discharge.

Vapors may form an explosive mixture with air. Vapor is heavier than air and spreads along the ground.

Use only explosion protected devices.

Storage class (VCI):

3: Flammable liquids

Further Information:

The product is slightly hazardous to water. Consider national regulations regarding handling and storage.

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):

Ethyl acetate, CAS 141-78-6; TWA: 1500 mg/m3, 400 ppm (2(1)Y; DFG)

Y: No teratogenic risk when the exposure limit values (ELV) and biological limit values (BLV) are adhered to.

Parameters to be controlled:

Derived No-Effect Level (DNEL):

Ethyl acetate (141-78-6):

1468 mg/m3, 400 ppm (worker, inhalation, acute effects - local effect)

63 mg/kg (worker, skin contact, chronic effect)

734 mg/m3, 200 ppm (worker, inhalation, chronic effects - local effect)

734 mg/m3, 200 ppm (consumer, inhalation, acute effects - local effect)

37 mg/kg (consumer, skin contact, chronic effects)

367 mg/m3 (consumer, inhalation, chronic effects - local effect)

4.5 mg/kg (consumer, swallowing, chronic effects)

Predicted No-Effect Concentration (PNEC):

Ethyl acetate:

Fresh water: 0.26 mg/l

Seawater: 0.026 mg/l

Fresh water sediment: 0.34 mg/kg

Seawater sediment: 0.034 mg/kg

Soil: 0.22 mg/kg

Additional Information:

8. 2. Exposure Controls

Technical protective measures:

Provide adequate ventilation.
Facilities storing or utilizing this material should be equipped with an eyewash facility.

Personal Protection

General protective measures:

Avoid contact with skin.
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:

Respiratory equipment required in case of insufficient ventilation, filter combination type A-P2.

Hand protection:

Protective gloves (EN 374)

Protective glove material:

Butyl rubber (> 60 min, 0.5 mm).
Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material and dexterity. Always seek advice from glove suppliers.

Eye protection:

Tightly fitting safety goggles (EN 166).

Body protection:

Protective clothing, solvent resistant

Environmental precautions:

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

9. Physical and Chemical Properties

9. 1. Information on Basic Physical and Chemical Properties

Form:	*liquid*
Color:	*orange - red*
Odor:	*fruit-like*
Odor threshold:	*50 ppm (Ethylacetat)*
pH-Value:	*not applicable*
Melting temperature:	*-84°C (Ethylacetat)*
Boiling temperature:	*77°C (Ethylacetat)*
Flash point:	*-4°C (Ethylacetat)*
Evaporation rate:	
Flammability (solid, gas):	*An explosive vapor/air mixture can be formed.*

Upper explosion limit:	*11.5 Vol% (Ethylacetat)*
Lower explosion limit:	*2.1 Vol% (Ethylacetat)*
Vapor pressure:	*100 hPa (20°C) (Ethylacetat)*
Vapor density:	
Density:	*0.9 g/cm3 (Ethylacetat)*
Solubility in water:	*insoluble*
Coefficient of variation (n-Octanol/Water):	*0.60 logKOW (Ethylacetat)*
Auto-ignition temperature:	*460°C (Ethylacetat)*
Decomposition temperature:	*No data available.*
Viscosity, dynamic:	*0.44 mPa.s (Ethylacetat)*
Explosive properties:	*An explosive vapor/air mixture can be formed.*
Oxidizing properties:	*No information available.*
Bulk density:	*not determined*

9. 2. Further Information

Solubility in solvents:	
Viscosity, kinematic	
Burning class:	
Solvent content:	
Solid content:	
Particle size:	
Other information:	*The data is based on those of ethyl acetate.*

10. Stability and Reactivity

10.1. Reactivity

Stable if used according to specifications.

10.2. Chemical Stability

No decomposition if used according to specifications.

10.3. Possibility of Hazardous Reactions

Reacts with strong oxidants.

10.4. Conditions to Avoid

Conditions to avoid:

Avoid contact with heat, sparks and open fire.

Thermal decomposition:

No data available.

10.5. Imcompatible Materials

Strong oxidizing agents.

10.6. Hazardous Decomposition Products

Acetic acid.
In case of fire: formation of carbon oxides.

10.7. Further Information

11. Toxicological Information

11. 1. Information on Toxicological Effects

Acute Toxicity

LD50, oral:

Ethyl acetate: 5600 mg/kg (rat)

LD50, dermal:

Ethyl acetate: > 18000 mg/kg (rabbit)

LC50, inhalation:

Ethyl acetate: 58 mg/kg (8h; rat)

Primary effects

Irritant effect on skin:

Prolonged/repeated contact may cause defatting of the skin which may cause dermatitis.

Irritant effect on eyes:

Slight irritant effect (rabbit).

Inhalation:

No information available.

Ingestion:

No information available

Sensitization:

No sensitizing effects known (guinea pig; OECD 406).

Mutagenicity:

Not sufficient information available.

Reproductive toxicity:

No relevant data found.

Carcinogenicity:

No relevant data found.

Teratogenicity:

No information available.

Specific target organ toxicity (STOT):

Single exposure: may cause drowsiness or dizziness.
Repeated exposure: the substance or mixture is not classified as specific target organ toxicant.

Additional toxicological information:

Experience of the exposure to people:

Inhalation of high vapor concentrations may cause headache, dizziness, tiredness, nausea and vomiting.

12. Ecological Information

12. 1. Aquatic Toxicity

Ethyl Acetate:

Fish toxicity:

LC50: 230 mg/l (96h, Pimephales promelas)

Daphnia toxicity:

EC50: 717 mg/l (48h, Daphnia magna)

Bacteria toxicity:

EC10: 2900 mg/l (16h, Pseudomonas putida)

Algae toxicity:

EC50: 3300 mg/l (48h, Scenedesmus subspicatus)

12. 2. Persistency and Degradability

Ethyl acetate: readily biodegradable

12. 3. Bioaccumulation

Ethyl acetate:
Bioconcentration factor (BCF): 30 (3d)

12. 4. Mobility

No information available.

12. 5. Results of PBT- und vPvP Assessment

This substance is not classified as PBT (persistent, bioaccumulative, toxic), nor as vPvB (very persistent, very bioaccumulative).

12. 6. Other Adverse Effects

Water hazard class:

Do not let product contaminate ground water, waterways or sewage system.

Behaviour in sewage systems:

Further ecological effects:

AOX Value:

13. Disposal Considerations

13. 1. Waste Treatment Methods

Product:

Must not be disposed together with household garbage.
Dispose of according to official national and local regulations.

European Waste Code (EWC):

Uncleaned packaging:

Empty container completely. Residues may cause an explosion hazard.
Do not puncture, cut or weld uncleaned drums. Risk of explosion.

Waste Code No.:

14. Transport Information

14. 1. UN Number

ADR, IMDG, IATA *1263*

14. 2. UN Proper Shipping Name

ADR/RID: *FARBE*

IMDG/IATA: *PAINT*

14. 3. Transport Hazard Classes

ADR Class: *3*

Hazard no.: *3*

Classification code: *F1*

Tunnel restriction code: *D/E*

IMDG Class (sea): *3*

Hazard no.: *3*

EmS No.: *F-E, S-E*

IATA Class: *3*

Hazard no.: *3*

14. 4. Packaging Group

ADR/RID: *II*

IMDG: *II*

IATA: *II*

14. 5. Environmental Hazards

Labelling according 5.2.1.8 ADR/RID: no
Labelling according 5.2.1.6.3 IMDG: no
Classification as environmentally hazardous according 2.9.3 IMDG: no
Labelled with "P" according 2.10 IMDG: no

14. 6. Special Precautions for User

not applicable

14. 7. Transportation in Bulk according to Annex II of MARPOL 73/78 and IBC-Code

IMDG: 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)

Local regulations on chemical accidents:

Employment restrictions:

The employment restrictions for young workers in accordance with

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the Youth Employment Protection Law (94/33/EC) are to be observed.

The employment restrictions for expectant and nursing mothers in accordance with the Maternity Protection Guideline (94/85/EEC) are to be observed.

Restriction and prohibition of application:

Ethyl acetate:

EC. REACH, Section XVII, Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles, Registered no. 40

Technical instructions on air quality:

15. 2. Chemical Safety Assessment

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

15. 3. Further Information

Ethyl acetate is listed in:

EINECS (205-500-4), TSCA (US),AICS (AUS), DSL/INV (CA), ENCS/JEX/ISHL (JP; (2)-726), KECI (KR; KE-00047; 97-1-161), PICCS (PH), IECSC (CN)

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.