

Safety Data Sheet

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



67402 Paraloid™ B 72 in Ethyl Acetate, 15 %

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Revised edition: 07.02.2023

Version: 2

Printed: 25.07.2023

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

1.1. Product Identifier

Product Name: Paraloid™ B 72 in Ethyl Acetate, 15 %

Article No.: 67402

UFI: -

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

Identified uses:
Coatings product

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)

Flammable liquids, hazard category 2
Serious eye damage, 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

Possible Environmental Effects:
See Section 12.

2.2. Label Elements

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

Hazard designation:

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GHS07

Signal word:

Danger

Hazard designation:

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.

Safety designation:

P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P243	Take precautionary measures against static discharge.
P260b	Do not breathe aerosol.
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:

Ethyl acetate

2.3. Other Hazards

3. Composition/Information on Ingredients

3.1. Substance

3.2. Mixture

Chemical Characterization: Paraloid™ B 72 dissolved in ethyl acetate

Information on Components / Hazardous Ingredients:

Ethyl acetate (H225-319-336); REACH Reg. No. 01-2119475103-46-xxxx	84 - 86 %	CAS-Nr: 141-78-6 EINECS-Nr: 205-500-4 EC-Nr: 607-022-00-5
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Acrylic polymer	14 - 16 %	CAS-Nr: EINECS-Nr: EC-Nr:
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Additional information:

4. First Aid Measures

4.1. Description of the First Aid Measures

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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:

*Wash off with plenty of water and soap.
If symptoms persist, consult a physician.*

After eye contact:

*Remove contact lenses, if present and easy to do. Continue rinsing.
Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.*

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.*

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

Symptoms:

Narcotic effects, breathing difficulties, headache, dizziness.

Effects:

No further information available.

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

Treatment:

*Subsequent observation for pneumonia and pulmonary edema.
Monitor the circulation.*

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.*

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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. Accidental 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.

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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.

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:

3; Flammable liquids (TRGS 510)

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); TLV: Average value: 200 ppm, 750 mg/m³; Short term value: 400 ppm, 1500 mg/m³; (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:

Ethyl acetate (CAS 141-78-6); IOELV (EC): Long-term value: 200 ppm, 734 mg/m³; Short-term value: 400 ppm, 1468 mg/m³; MAK (CH): Long-term value: 200 ppm, 730 mg/m³; Short-term value: 400 ppm, 1460 mg/m³; MAK (AT): Long-term value: 200 ppm, 734 mg/m³; Short-term value: 400 ppm, 1468 mg/m³

Derived No-Effect Level (DNEL):

Ethyl acetate (141-78-6):

1468 mg/m³ (worker, inhalation, acute exposure - local and systemic effects)

734 mg/m³ (worker, inhalation, chronic exposure - local and systemic effects)

63 mg/kg (worker, skin contact, chronic exposure - local effects)

Predicted No-Effect Concentration (PNEC):

Ethyl acetate:

Fresh water: 0.24 mg/l

Seawater: 0.024 mg/l

Fresh water sediment: 1.15 mg/kg

Seawater sediment: 0.115 mg/kg

Soil: 0.148 mg/kg

Sewage treatment system (STP): 650 mg/l

Intermittent release: 1.65 mg/l

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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 type A (organic gases and vapors).

Hand protection:

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leaktightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Protective glove material:

*Polyethylene (PE), chloroprene rubber (CR), butyl rubber (0.4 mm)
Recommended: Protective index 4, corresponding > 120 min. of permeation time (EN 374).*

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:

*Use appropriate container to avoid environmental contamination.
Keep away from drains, surface and ground water.*

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

Form: viscous

Color: clear

Odor: fruity

Odor threshold: 6-75 ppm (Ethylacetate)

pH-Value:
not applicable

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Melting temperature:	-84°C (Ethylacetate)
Boiling temperature:	77°C (Ethylacetate)
Flash point:	- 4°C (Ethylacetate)
Evaporation rate:	2.4 (Ether) (n-Butyl acetate =1)
Flammability (solid, gas):	An explosive vapor/air mixture can be formed.
Upper explosion limit:	11.5 Vol.% (Ethylacetate)
Lower explosion limit:	2 Vol.% (Ethylacetate)
Vapor pressure:	98.3 hPa (20°C) (Ethylacetate)
Vapor density:	3.04 (Air=1.0) (Ethylacetate) No information available.
Density:	0.9 g/cm ³ (20°C) (Ethylacetate)
Solubility in water:	No data available
Coefficient of variation (n-Octanol/Water):	0.68 logKow (Ethylacetate)
Auto-ignition temperature:	427°C (Ethylacetate)
Decomposition temperature:	No data available.
Viscosity, dynamic:	not available
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:

Temperature class: T2 (maximum temperature: 300°C)

10. Stability and Reactivity

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10.1.	Reactivity	<i>Stable if used according to specifications.</i>
10.2.	Chemical Stability	<i>No decomposition if used according to specifications.</i>
10.3.	Possibility of Hazardous Reactions	<i>Formation of explosive vapor-air-mixtures possible in case of insufficient ventilation.</i>
10.4.	Conditions to Avoid	<i>Conditions to avoid:</i> <i>Avoid heat, hot surfaces, sparks, naked flames and other ignition sources. Do not smoke.</i> <i>Thermal decomposition:</i> <i>No data available.</i>
10.5.	Incompatible Materials	<i>Oxidizing agents.</i>
10.6.	Hazardous Decomposition Products	<i>In the event of fire or thermal decomposition: formation of carbon oxides.</i>
10.7.	Further Information	

11. Toxicological Information

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

Acute Toxicity

Ethyl acetate:
Is not classified as acutely toxic.

LD50, oral:

No information available

LD50, dermal:

> 20000 mg/kg (rabbit)

LC50, inhalation:

No information available.

Primary effects

Irritant effect on skin:

Shall not be classified as corrosive/irritant to skin.

Irritant effect on eyes:

Causes serious eye irritation.

Inhalation:

No information available.

Ingestion:

No information available

Sensitization:

Shall not be classified as a respiratory or skin sensitizer.

Mutagenicity:

Not classified as mutagenic.

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Reproductive toxicity:

Not classified as reproductive toxicant.

Carcinogenicity:

Not classified as carcinogenic.

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.

Aspiration hazard:

No risk of aspiration.

11.2. Information on other Hazards

Skin contact: repeated exposure may cause skin dryness or cracking.

12. Ecological Information

12.1. Aquatic Toxicity

Ethyl Acetate:

Fish toxicity:

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

Daphnia toxicity:

Chronic toxicity: EC50: 2306 mg/l (24h, Daphnia magna)

Bacteria toxicity:

No data available.

Algae toxicity:

No information available.

12.2. Persistency and Degradability

62 % (5d); readily biodegradable (OECD 301D)

12.3. Bioaccumulation

Bioconcentration factor (BCF): 30 (3d)

12.4. Mobility

No information available.

12.5. Results of PBT- und vPvP Assessment

This product is neither a PBT or vPvB substance nor does it contain a PBT or vPvB substance.

12.6. Endocrine Disrupting Properties

This product does not contain components considered to have endocrine disrupting properties.

12.7. Other Adverse Effects

Water hazard class:

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

Behaviour in sewage systems:

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Further ecological effects:

AOX Value:

13. Disposal Considerations

13.1. Waste Treatment Methods

Product:

Solvent recovery / regeneration.

Do not empty into drains. Avoid release into the environment.

Refer to special instructions / Safety data sheets.

Dispose of according to official national and local regulations.

European Waste Code (EWC):

Uncleaned packaging:

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

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 1866

14.2. UN Proper Shipping Name

ADR/RID: HARZLÖSUNG, ENTZÜNDBAR, SV 640D

IMDG/IATA: RESIN SOLUTION, FLAMMABLE, SP 640D

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

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14.5. Environmental Hazards

Not classified as environmentally hazardous.

14.6. Special Precautions for User

The rules for Dangerous Goods (ADR) must also be observed within the company grounds.

14.7. Maritime Transport in Bulk according to IMO Instruments

Not transported by sea in bulk.

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 (according to the German Regulation AwSV)

Local regulations on chemical accidents:

Seveso-III Directive (2012/18/EU):

Flammable liquids (P5c): Amount 1: 5000 t; Amount 2: 50000 t

Employment restrictions:

The employment restrictions for expectant and nursing mothers, and for young workers 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. 3, 40, 75

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

EC. REACH, Annex XIV, Candidate List of Substances of very High Concern (SVHC): not regulated / not applicable

Fire hazard class (German "Flammable Liquids Ordinance" (VbF)): AI (flammable liquids of group A, hazardous class I)

Decopaint Directive (2004/42/EC):

VOC Content: 85 %

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.