

Safety Data Sheet

Mearlite® Ultra Bright USD

Revision date : 2014/07/25
Version: 2.0

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(30322632/SDS_GEN_US/EN)

1. Identification

Product identifier used on the label

Mearlite® Ultra Bright USD

Recommended use of the chemical and restriction on use

Recommended use*: colouring component

* The "Recommended use" identified for this product is provided solely to comply with a US Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company:

BASF Colors & Effects USA LLC
100 Park Avenue
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

Emergency telephone number

CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP (4357)

Other means of identification

Chemical family: Preparation based on: organic solvent

2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product

Flam. Liq.	2	Flammable liquid
Acute Tox.	4 (Inhalation - vapour)	Acute toxicity
Skin Corr./Irrit.	2	Skin corrosion/irritation
Eye Dam./Irrit.	2A	Serious eye damage/eye irritation
Repr.	2 (unborn child)	Reproductive toxicity
STOT SE	3 (Vapours may cause drowsiness and dizziness.)	Specific target organ toxicity — single exposure
STOT RE	2	Specific target organ toxicity — repeated

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Aquatic Acute 3 exposure
Hazardous to the aquatic environment - acute

Label elements

Pictogram:



Signal Word:

Danger

Hazard Statement:

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H315 Causes skin irritation.
H332 Harmful if inhaled.
H336 May cause drowsiness or dizziness.
H361 Suspected of damaging the unborn child.
H373 May cause damage to organs (Skin, Central nervous system) through prolonged or repeated exposure.
H402 Harmful to aquatic life.

Precautionary Statements (Prevention):

P271 Use only outdoors or in a well-ventilated area.
P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P243 Take precautionary measures against static discharge.
P260 Do not breathe dust/gas/mist/vapours.
P273 Avoid release to the environment.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P202 Do not handle until all safety precautions have been read and understood.
P242 Use only non-sparking tools.
P240 Ground/bond container and receiving equipment.
P264 Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response):

P308 + P311 IF exposed or concerned: Call a POISON CENTER or doctor/physician.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P303 + P352 IF ON SKIN (on hair): Wash with plenty of soap and water.
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P337 + P311 If eye irritation persists: Call a POISON CENTER or doctor/physician.
P370 + P378 In case of fire: Use foam or dry powder for extinction.
P362 + P364 Take off contaminated clothing and wash before reuse.

Precautionary Statements (Storage):

P403 + P235 Store in a well-ventilated place. Keep cool.
P233 Keep container tightly closed.
P405 Store locked up.

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Precautionary Statements (Disposal):
P501 Dispose of contents/container to hazardous or special waste collection point.

Hazards not otherwise classified

No specific dangers known, if the regulations/notes for storage and handling are considered.

According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Emergency overview

DANGER:
FLAMMABLE.
Irritating to eyes and skin.
May be harmful if inhaled.
There is a possibility of liver damage.
May cause CNS depression.
The substance may cause deafness after repeated inhalation.
May cause developmental effects.
May be harmful if swallowed.
Ingestion may cause gastrointestinal disturbances.

3. Composition / Information on Ingredients

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
123-86-4	20.0 - 40.0 %	n-Butyl acetate
7787-59-9	20.0 - 30.0 %	Bismuthine, chlorooxo-
108-88-3	5.0 - 10.0 %	Toluene
3147-75-9	5.0 - 10.0 %	Phenol, 2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)-
67-63-0	1.0 - 5.0 %	2-Propanol

According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
123-86-4	20.0 - 40.0 %	n-Butyl acetate
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108-88-3	5.0 - 10.0 %	Toluene
3147-75-9	5.0 - 10.0 %	Phenol, 2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)-
67-63-0	1.0 - 5.0 %	2-Propanol

The product contains:

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
	15.0 - 25.0 %	Amyl acetate (n-pentyl acetate)
9004-70-0	3.0 - 7.0 %	cellulose nitrate

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4. First-Aid Measures

Description of first aid measures

General advice:

Immediately remove contaminated clothing.

If inhaled:

If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

If on skin:

Wash affected areas thoroughly with soap and water. Seek medical attention.

If in eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed:

Immediately rinse mouth and then drink plenty of water, do not induce vomiting, seek medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:
dry powder, foam

Special hazards arising from the substance or mixture

Hazards during fire-fighting:
harmful vapours

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Substance/product is a flammable liquid.

Advice for fire-fighters

Protective equipment for fire-fighting:
Wear a self-contained breathing apparatus.

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Further information:

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Can release flammable vapours. Wind direction should be noted. Avoid all sources of ignition: heat, sparks, open flame. Use antistatic tools.

Environmental precautions

Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up

For large amounts: Pump off product.

For residues: Pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations.

7. Handling and Storage

Precautions for safe handling

Ensure thorough ventilation of stores and work areas.

Avoid all sources of ignition: heat, sparks, open flame.

Protection against fire and explosion:

Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

Conditions for safe storage, including any incompatibilities

Segregate from incompatible substances.

Segregate from incompatible substances.

Unsuitable materials for containers: aluminum

Further information on storage conditions: Keep container tightly closed and in a cool place.

8. Exposure Controls/Personal Protection

Components with occupational exposure limits

2-Propanol	OSHA PEL ACGIH TLV	PEL 400 ppm 980 mg/m ³ ; TWA value 200 ppm ; STEL value 400 ppm ;
pentyl acetate	OSHA PEL ACGIH TLV	PEL 100 ppm 525 mg/m ³ ; TWA value 50 ppm ; STEL value 100 ppm ;
n-Butyl acetate	OSHA PEL ACGIH TLV	PEL 150 ppm 710 mg/m ³ ; TWA value 150 ppm ; STEL value 200 ppm ;
Toluene	OSHA PEL ACGIH TLV	max. conc. 500 ppm ; CLV 300 ppm ; TWA value 200 ppm ; TWA value 20 ppm ;

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Personal protective equipment

Respiratory protection:

Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.

Hand protection:

Chemical resistant protective gloves

Eye protection:

Tightly fitting safety goggles (chemical goggles) and face shield.

Body protection:

Impermeable protective clothing

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

Form:	paste	
Odour:	characteristic, solvent-like	
Odour threshold:		Not determined due to potential health hazard by inhalation.
Colour:	silver colours	
pH value:		not determined
Freezing point:		not determined
onset of boiling:	approx. 83 °C	
Flash point:	20 °C	(closed cup)
Flammability:	Highly flammable.	
Lower explosion limit:		not determined
Upper explosion limit:		not determined
Autoignition:		not determined
Vapour pressure:		not determined
<i>Information on: n-Butyl acetate</i>		
Vapour pressure:	15 hPa	(20 °C) (measured) Extrapolated value, static
<i>Information on: Toluene</i>		
Vapour pressure:	30.889 hPa	(21.1 °C) Literature data.

Density:	1.2 g/cm ³	(approx. 20 °C)
Relative density:	1.2	
Vapour density:		not determined
Partitioning coefficient n-octanol/water (log Pow):		not applicable for mixtures
Self-ignition temperature:		not self-igniting
Thermal decomposition:	not determined	
Viscosity, dynamic:		not determined
% volatiles:	47.0 - 74.0 %	
Solubility in water:		insoluble
Evaporation rate:		not determined

10. Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

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Oxidizing properties:
not fire-propagating

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

The product is chemically stable.

Conditions to avoid

Avoid all sources of ignition: heat, sparks, open flame.

Incompatible materials

strong acids, strong oxidizing agents, strong alkalies

Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:
not determined

11. Toxicological information

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Acute toxicity

Assessment of acute toxicity: Vapours may cause drowsiness and dizziness. Ingestion may cause gastrointestinal disturbances.

Information on: 2-Propanol

Assessment of acute toxicity:

If used as intended, this product is not expected to present a physical or health hazard.

Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact. High concentrations in the air may cause narcosis. Of low toxicity after single ingestion.

Inhalation

Information on: Toluene

Type of value: LC50

Species: rat (male/female)

Value: 28.1 mg/l (BASF-Test)

Exposure time: 4 h

Irritation / corrosion

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Assessment of irritating effects: Irritating to eyes. Causes skin irritation. Repeated exposure may cause skin dryness or cracking.

Information on: Toluene

Assessment of irritating effects: Skin contact causes irritation. May cause slight irritation to the eyes.

Information on: 2-Propanol

Assessment of irritating effects: Not irritating to the skin. Eye contact causes irritation.

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: May cause central nervous system effects. The substance may cause deafness after repeated inhalation.

Information on: Toluene

Assessment of repeated dose toxicity: The substance may cause damage to the central nervous system after repeated ingestion of high doses. The substance may cause deafness after repeated inhalation.

Teratogenicity

Assessment of teratogenicity: Indications of possible developmental toxicity/teratogenicity were seen in animal studies.

Information on: Toluene

Assessment of teratogenicity: Indications of possible developmental toxicity/teratogenicity were seen in animal studies.

Other Information

The product has not been tested. The statements on toxicology have been derived from the properties of the individual components. The product has been assessed on the basis of the components' available data. To some extent data gaps exist for individual components. According to our present knowledge and experience dangers which are not covered by the current labeling are not to be expected.

Symptoms of Exposure

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

12. Ecological Information

Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

Acutely toxic for aquatic organisms. Acutely harmful for aquatic organisms.

Aquatic toxicity

Information on: pentyl acetate

Assessment of aquatic toxicity:

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Acutely harmful for aquatic organisms. Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

Information on: Toluene

Assessment of aquatic toxicity:

Acutely toxic for aquatic organisms. Harmful to aquatic organisms based on long-term (chronic) toxicity study data. Depending on local conditions and existing concentrations, disturbances in the nitrification process of activated sludge are possible.

Toxicity to fish

Information on: n-Butyl acetate

LC50 (96 h) 18 mg/l, Pimephales promelas (Fish test acute, Flow through.)

The statement of the toxic effect relates to the analytically determined concentration.

Information on: pentyl acetate

LC50 (96 h) > 22 - < 46 mg/l, Brachydanio rerio (OECD 203; ISO 7346; 84/449/EEC, C.1, static)

The details of the toxic effect relate to the nominal concentration. The product has not been tested.

The statement has been derived from substances/products of a similar structure or composition.

Information on: Toluene

LC50 (96 h) 5.5 mg/l, Oncorhynchus kisutch (Flow through.)

The statement of the toxic effect relates to the analytically determined concentration. Literature data.

Aquatic invertebrates

Information on: n-Butyl acetate

EC50 (48 h) 44 mg/l, Daphnia sp. (Daphnia test acute, static)

Nominal concentration.

Information on: pentyl acetate

EC50 (48 h) 42 mg/l, Daphnia magna (DIN 38412 Part 11, static)

The details of the toxic effect relate to the nominal concentration. The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: Toluene

LC50 (48 h) 3.78 mg/l, Ceriodaphnia dubia (semistatic)

The statement of the toxic effect relates to the analytically determined concentration. Literature data.

Persistence and degradability

Assessment biodegradation and elimination (H₂O)

The colourant is insoluble in water and can thus be separated from water mechanically in suitable effluent treatment plant The auxiliary substance(s) is/are biodegradable.

Additional information

Other ecotoxicological advice:

The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components. The product has been assessed on the basis of the components' available data. To some extent data gaps exist for individual components. According to our present knowledge and experience dangers which are not covered by the current labeling are not to be expected.

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13. Disposal considerations

Waste disposal of substance:

Must be disposed of or incinerated in accordance with local regulations.

Container disposal:

Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers. Flammable vapors may exist in containers in which residues of this product remain.

14. Transport Information

Land transport

USDOT

Hazard class: 3
Packing group: II
ID number: UN 1263
Hazard label: 3
Proper shipping name: PAINT

Sea transport

IMDG

Hazard class: 3
Packing group: II
ID number: UN 1263
Hazard label: 3
Marine pollutant: NO
Proper shipping name: PAINT

Air transport

IATA/ICAO

Hazard class: 3
Packing group: II
ID number: UN 1263
Hazard label: 3
Proper shipping name: PAINT

15. Regulatory Information

Federal Regulations

Registration status:

Chemical TSCA, US released / listed

EPCRA 311/312 (Hazard categories): Acute; Chronic

EPCRA 313:

<u>CAS Number</u>	<u>Chemical name</u>
108-88-3	Toluene
67-63-0	2-Propanol

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<u>CERCLA RQ</u>	<u>CAS Number</u>	<u>Chemical name</u>
5000 LBS	123-86-4; 628-63-7	n-Butyl acetate; pentyl acetate
1000 LBS	108-88-3	Toluene
100 LBS	67-63-0; 9004-70-0	2-Propanol; cellulose nitrate

State regulations

<u>State RTK</u>	<u>CAS Number</u>	<u>Chemical name</u>
MA, NJ, PA	123-86-4	n-Butyl acetate
MA, NJ, PA	108-88-3	Toluene
MA, NJ, PA	67-63-0	2-Propanol

CA Prop. 65:

THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

NFPA Hazard codes:

Health : 2 Fire: 2 Reactivity: 1 Special:

HMIS III rating

Health: 2⁺ Flammability: 2 Physical hazard: 1

16. Other Information

SDS Prepared by:

BASF NA Product Regulations
SDS Prepared on: 2014/07/25

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

Mearlite® Ultra Bright USD Due to the merger of Engelhard Corp. and BASFGroup all Material Safety Data Sheets have been reassessed on the basis of consolidated information. This may have resulted in changes of the Material Safety Data Sheets. In case you have questions concerning such changes please contact us under the address mentioned in Section I.

END OF DATA SHEET