

Safety Data Sheet

Efka® PU 4063 AN

Revision date : 2021/04/09

Version: 4.0

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(30631873/SDS_GEN_US/EN)

1. Identification

Product identifier used on the label

Efka® PU 4063 AN

Recommended use of the chemical and restriction on use

Recommended use*: Coating raw material for industrial applications, additives for inks, varnishes or coatings

* The "Recommended use" identified for this product is provided solely to comply with a 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 CORPORATION
100 Park Avenue
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

Emergency telephone number

24 Hour Emergency Response Information

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

Other means of identification

Chemical family: modified, polyurethane

2. Hazards Identification

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

Classification of the product

Flam. Liq.	3	Flammable liquids
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	Specific target organ toxicity — single exposure

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STOT SE	dizziness.) 3 (irritating to respiratory system)	Specific target organ toxicity — single exposure
STOT RE	2	Specific target organ toxicity — repeated exposure
Aquatic Acute	2	Hazardous to the aquatic environment - acute
Aquatic Chronic	3	Hazardous to the aquatic environment - chronic

Label elements

Pictogram:



Signal Word:

Warning

Hazard Statement:

H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H335	May cause respiratory irritation.
H361	Suspected of damaging the unborn child.
H373	May cause damage to organs (Central nervous system, Liver, Kidney) through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.
H401	Toxic to aquatic life.

Precautionary Statements (Prevention):

P280	Wear protective gloves, protective clothing and eye protection or face protection.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear eye protection.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P273	Avoid release to the environment.
P260	Do not breathe dust/gas/mist/vapours.
P243	Take action to prevent static discharges.
P201	Obtain special instructions before use.
P241	Use explosion-proof electrical, ventilating and lighting equipment.
P202	Do not handle until all safety precautions have been read and understood.
P264	Wash contaminated body parts thoroughly after handling.
P242	Use only non-sparking tools.
P240	Ground and bond container and receiving equipment.

Precautionary Statements (Response):

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P312	Call a POISON CENTER or physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical attention.
P303 + P361 + P353	IF ON SKIN (or hair): Remove or Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P332 + P313	If skin irritation occurs: Get medical attention.
P337 + P313	If eye irritation persists: Get medical attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P370 + P378	In case of fire: Use foam or dry powder for extinction.

Precautionary Statements (Storage):

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

Precautionary Statements (Disposal):

P501	Dispose of contents/container in accordance with local regulations.
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Hazards not otherwise classified

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

3. Composition / Information on Ingredients

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

ethylbenzene

CAS Number: 100-41-4
Content (W/W): ≥ 0.0 - $< 10.0\%$
Synonym: Ethylbenzene

1-methoxy-2-propylacetate

CAS Number: 108-65-6
Content (W/W): ≥ 10.0 - $< 15.0\%$
Synonym: 2-Methoxy-1-methylethyl acetate; 1-Methoxy-2-propyl acetate

Toluene

CAS Number: 108-88-3
Content (W/W): ≥ 0.0 - $< 0.2\%$
Synonym: Benzene, methyl-

n-Butyl acetate

CAS Number: 123-86-4
Content (W/W): ≥ 10.0 - $< 15.0\%$
Synonym: n-Butyl acetate

Xylene

CAS Number: 1330-20-7
Content (W/W): ≥ 20.0 - $< 50.0\%$
Synonym: Xylene; Dimethylbenzene

1H-imidazole-1-propylamine

CAS Number: 5036-48-6

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Content (W/W): $\geq 0.1 - < 0.2\%$

Synonym: No data available.

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:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist. Remove contact lenses, if present. If symptoms persist, seek medical advice.

If swallowed:

Rinse mouth and then drink 200-300 ml of water. Do not induce vomiting. Seek medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Information on: ethylbenzene

Symptoms: Overexposure may cause:, Eye irritation, skin irritation, irritation of the mucous membranes, erythema, nausea, headache, dizziness, diarrhea, abdominal cramps, dermatitis, loss of hearing, Ingestion may provoke the following symptoms:, asphyxia, dyspnea, choking, respiratory arrest, circulatory collapse

Information on: 1-methoxy-2-propylacetate

Symptoms: Overexposure may cause:, nausea, vomiting, dizziness, diarrhea, abdominal cramps

Information on: Toluene

Symptoms: Overexposure may cause:, unconsciousness, death, dilation of pupils, coordination disorder, lethargy, confusion, headache, dizziness, lacrimation

Information on: n-Butyl acetate

Symptoms: Overexposure may cause:, unconsciousness, vomiting, weakness, coordination disorder, nausea, diarrhea, coughing, headache

Information on: Xylene

Symptoms: Overexposure may cause:, coma, weakness, lethargy, confusion, dyspnea, nausea, headache, dizziness

Information on: 1H-imidazole-1-propylamine

Symptoms: Overexposure may cause:, corneal injury, skin corrosion, severe pain, coughing, respiratory disorders, dyspnea, nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps

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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

Unsuitable extinguishing media for safety reasons:
No data available.

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.

Advice for fire-fighters

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

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

Further accidental release measures:

Clean up spills immediately.

Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Breathing protection required.

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

Environmental precautions

Contain contaminated water/firefighting water. 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.

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7. Handling and Storage

Precautions for safe handling

Ensure thorough ventilation of stores and work areas.

Protection against fire and explosion:

Sources of ignition should be kept well clear. Take precautionary measures against static discharges. If delivered in plastic packing, highest permissible emptying temperature is 5 Kelvin below the flash point.

Conditions for safe storage, including any incompatibilities

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

Protect from temperatures below: -5 °C

Protect from temperatures above: 50 °C

8. Exposure Controls/Personal Protection

Components with occupational exposure limits

ethylbenzene	ACGIH, US:	TWA value 20 ppm ;
Toluene	ACGIH, US:	TWA value 20 ppm ;
	OSHA Z1A:	TWA value 100 ppm 375 mg/m3 ;
	OSHA Z1A:	STEL value 150 ppm 560 mg/m3 ;
	OSHA Z2:	max. conc. 500 ppm ;
	OSHA Z2:	CLV 300 ppm ;
	OSHA Z2:	TWA value 200 ppm ;
n-Butyl acetate	ACGIH, US:	STEL value 150 ppm ;
	ACGIH, US:	TWA value 50 ppm ;
	OSHA Z1:	PEL 150 ppm 710 mg/m3 ;
	OSHA Z1A:	STEL value 200 ppm 950 mg/m3 ;
	OSHA Z1A:	TWA value 150 ppm 710 mg/m3 ;
Xylene	ACGIH, US:	TWA value 100 ppm ;
	ACGIH, US:	STEL value 150 ppm ;
	OSHA Z1:	PEL 100 ppm 435 mg/m3 ;
	OSHA Z1A:	TWA value 100 ppm 435 mg/m3 ;
	OSHA Z1A:	STEL value 150 ppm 655 mg/m3 ;

Advice on system design:

Provide local exhaust ventilation to control vapours/mists.

Personal protective equipment

Respiratory protection:

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

Hand protection:

Chemical resistant protective gloves

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Eye protection:

Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

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:	liquid	
Odour:	characteristic solvent-like	
Odour threshold:	No applicable information available.	
Colour:	colourless to yellowish clear	
pH value:	not applicable	
Freezing point:	not determined	
Melting point:	not determined	
boiling temperature:	> 120 °C (1,013 hPa)	
Flash point:	27.8 °C	(ASTM D93)
Flammability:	Flammable.	
Lower explosion limit:	For liquids not relevant for classification and labelling. The lower explosion point may be 5 - 15 °C below the flash point.	
Upper explosion limit:	Not determined.	
Autoignition:	not determined	
Vapour pressure:	not determined	
Density:	0.975 - 0.995 g/cm ³ (20 °C, 1,013 hPa)	(DIN 51757)
Relative density:	0.987 (20 °C)	
Vapour density:	not determined	
Partitioning coefficient n- octanol/water (log Pow):	not applicable for mixtures	
Self-ignition temperature:	Keep away from heat, spark, and open flames. Ground container when transferring product. not self-igniting The statements are based on the properties of the individual components.	
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.	
Viscosity, dynamic:	200 - 600 mPa*s (25 °C)	(ASTM D 2196)
Solubility in water:	insoluble	
Solubility (qualitative):	soluble solvent(s): organic solvents,	
Evaporation rate:	not determined	

10. Stability and Reactivity

Reactivity

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

Oxidizing properties:
not fire-propagating

Chemical stability

The product is chemically stable.

Possibility of hazardous reactions

Reacts with strong oxidizing agents.

Conditions to avoid

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

Incompatible materials

No substances known that should be avoided.

Hazardous decomposition products

Decomposition products:

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

Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

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: Of moderate toxicity after short-term inhalation. Of moderate toxicity after short-term skin contact. Causes respiratory tract irritation.

Oral

Type of value: LD50

Species: rat

Value: 2,000 - 5,000 mg/kg

The product has not been tested. The statement has been derived from the properties of the individual components.

Inhalation

Type of value: LC50

Species: rat

Value: > 20 mg/l

Exposure time: 4 h

Determined for vapor The product has not been tested. The statement has been derived from the properties of the individual components.

Dermal

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Type of value: LD50

Species: rat

Value: > 5,000 mg/kg

The product has not been tested. The statement has been derived from the properties of the individual components.

Irritation / corrosion

Assessment of irritating effects: Irritating to eyes and skin.

Skin

Species: rabbit

Result: Irritant.

The product has not been tested. The statement has been derived from the properties of the individual components.

Eye

Species: rabbit

Result: Irritant.

The product has not been tested. The statement has been derived from the properties of the individual components.

Aspiration Hazard

No aspiration hazard expected.

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: Repeated exposure to large quantities may affect certain organs. Damages the central nerve system. The substance may cause deafness after repeated inhalation. Damages the kidneys. Damages the liver.

Genetic toxicity

Assessment of mutagenicity: Based on the ingredients, there is no suspicion of a mutagenic effect.

Carcinogenicity

Assessment of carcinogenicity: The whole of the information assessable provides no indication of a carcinogenic effect.

Information on: ethylbenzene

Assessment of carcinogenicity: Indication of possible carcinogenic effect in animal tests. The effect is caused by an animal specific mechanism that has no human counter part. A clear indication of an increased risk of cancer in humans has so far not been shown. IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans).

Reproductive toxicity

Assessment of reproduction toxicity: Based on the ingredients, there is no suspicion of a toxic effect on reproduction.

Teratogenicity

Assessment of teratogenicity: Based on the ingredients, there is no suspicion of a teratogenic effect.

12. Ecological Information

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Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components.

Toxicity to fish

LC50 (96 h) > 10 - 100 mg/l, Fish

The product has not been tested. The statement has been derived from the properties of the individual components.

Aquatic invertebrates

LC50 (48 h) 1 - 10 mg/l, daphnia

The product has not been tested. The statement has been derived from the properties of the individual components.

Aquatic plants

EC50 (72 h) 1 - 10 mg/l, algae

The product has not been tested. The statement has been derived from the properties of the individual components.

Chronic toxicity to fish

No data available.

Chronic toxicity to aquatic invertebrates

No data available.

Microorganisms/Effect on activated sludge

Toxicity to microorganisms

bacteria/EC0 (0.5 h): > 10 - 100 mg/l

The product has not been tested. The statement has been derived from the properties of the individual components.

Persistence and degradability

Assessment biodegradation and elimination (H2O)

The polymer component of the product is poorly biodegradable. The ecotoxic component(s) is/are readily biodegradable.

Elimination information

Not readily biodegradable (by OECD criteria).

Bioaccumulative potential

Assessment bioaccumulation potential

The product has not been tested.

Mobility in soil

Assessment transport between environmental compartments

No data available.

Additional information

Add. remarks environm. fate & pathway:

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Treatment in biological waste water treatment plants has to be performed according to local and administrative regulations.

13. Disposal considerations

Waste disposal of substance:

This product, if disposed as shipped, meets EPA criteria of a hazardous waste as specified in 40 CFR 261 on the basis of its ignitability. Incinerate or dispose of in a RCRA-licensed facility. Observe national and local legal requirements. Hazardous waste number D001.

Container disposal:

Uncontaminated packaging can be re-used. Packs that cannot be cleaned should be disposed of in the same manner as the contents.

WARNING: Empty containers may still contain hazardous residue.

14. Transport Information

Land transport

USDOT

Hazard class: 3
Packing group: III
ID number: UN 1993
Hazard label: 3
Proper shipping name: FLAMMABLE LIQUID, N.O.S. (contains XYLENE, 2-METHOXY-1-METHYLETHYL ACETATE)

Sea transport

IMDG

Hazard class: 3
Packing group: III
ID number: UN 1993
Hazard label: 3
Marine pollutant: NO
Proper shipping name: FLAMMABLE LIQUID, N.O.S. (contains XYLENE, 2-METHOXY-1-METHYLETHYL ACETATE)

Air transport

IATA/ICAO

Hazard class: 3
Packing group: III
ID number: UN 1993
Hazard label: 3
Proper shipping name: FLAMMABLE LIQUID, N.O.S. (contains XYLENE, 2-METHOXY-1-METHYLETHYL ACETATE)

15. Regulatory Information

Federal Regulations

Registration status:

Chemical TSCA, US released / listed

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EPCRA 311/312 (Hazard categories): Refer to SDS section 2 for GHS hazard classes applicable for this product.

EPCRA 313:

<u>CAS Number</u>	<u>Chemical name</u>
1330-20-7	Xylene
100-41-4	ethylbenzene

<u>CERCLA RQ</u>	<u>CAS Number</u>	<u>Chemical name</u>
5000 LBS	123-86-4	n-Butyl acetate
100 LBS	1330-20-7	Xylene
10 LBS	71-43-2	Benzene

State regulations

<u>State RTK</u>	<u>CAS Number</u>	<u>Chemical name</u>
NJ	100-41-4	ethylbenzene
	1330-20-7	Xylene
	123-86-4	n-Butyl acetate
	108-88-3	Toluene
PA	100-41-4	ethylbenzene
	123-86-4	n-Butyl acetate
	1330-20-7	Xylene

Safe Drinking Water & Toxic Enforcement Act, CA Prop. 65:

WARNING: This product can expose you to chemicals including BENZENE, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

NFPA Hazard codes:

Health: 2 Fire: 3 Reactivity: 0 Special:

16. Other Information

SDS Prepared by:

BASF NA Product Regulations

SDS Prepared on: 2021/04/09

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.

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