

# Safety Data Sheet

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



## 70330 n-Butyl Acetate

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Version: 9

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

#### 1.1. Product Identifier

Product Name: n-Butyl Acetate

Article No.: 70330

UFI: --

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

Identified uses: Industrial application

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 3  
Specific Target Organ Toxicity (single exposure), hazard category 3

H226 Flammable liquid and vapour.

Cat.: 3

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:



GHS02

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GHS07-1

*Signal word:*

Warning

*Hazard designation:*

H226	Flammable liquid and vapour.
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.
P312	Call a poison center or physician if you feel unwell.
P370+P378	In case of fire: use water spray, foam, carbon dioxide or dry extinguishing powder for extinction.
P403+P233	Store in a well ventilated place. Keep container tightly closed.
P403+P235	Store in a well ventilated place. Keep cool.
P501	Dispose of contents/ container according to regional, national and international regulations.

*Hazardous components for labelling:*

*n-Butyl acetate*

### 2.3. Other Hazards

## 3. Composition/Information on Ingredients

### 3.1. Substance

### 3.2. Mixture

*Chemical Characterization:*

*Information on Components / Hazardous Ingredients:*

n-Butylacetate (H226-336); REACH Reg. No. 01- 100 %  
2119485493-29-xxxx

CAS-Nr: 123-86-4  
EINECS-Nr: 204-658-1  
EC-Nr: 607-025-00-1

*Additional information:*

## 4. First Aid Measures

### 4.1. Description of the First Aid Measures

*General information:*

*Remove contaminated clothes immediately.*

*After inhalation:*

*Supply fresh air. If required give artificial respiration. In case of complaints or unconsciousness consult a physician. In case of unconsciousness place patient stable in side position for transportation.*

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

*After skin contact:*

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

*If symptoms persist, consult a physician.*

*After eye contact:*

*Rinse open eyes with plenty of water for at least 15 minutes. Consult physician.*

*After ingestion:*

*Do not induce vomiting. Consult physician immediately.*

*Rinse mouth with water and drink plenty of water.*

*Never give anything by mouth to an unconscious person.*

### 4.2. Most important Symptoms and Effects, both Acute and Delayed

*Symptoms:*

*Cough, nausea, vomiting, headache, unconsciousness, labored breathing, drowsiness.*

*Effects:*

*Risk of severe lung damage (if inhaled).*

*Swallowing large amounts can cause disorders of the central nervous system (e.g. dizziness, headache).*

### 4.3. Indication of any Immediate Medical Attention and special Treatment needed

*Treatment:*

*Treat symptomatically.*

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## 5. Fire-Fighting Measures

### 5.1. Extinguishing Media

*Suitable extinguishing media:*

*Water mist, extinguishing powder, foam, carbon dioxide.*

*Use extinguishing media for surrounding fire.*

*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.*

### 5.3. Advice for Firefighters

*Protective equipment:*

*Further information:*

*Do not inhale explosion and fire gases.*

*Collect contaminated extinguishing water and debris separately; avoid contamination of sewage system.*

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## 6. Accidental Release Measures

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

*Personal precautions:*

*Wear appropriate protective equipment. Keep spectators away.*

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*Provide adequate ventilation. Keep away from sources of ignition.  
Avoid contact with skin and eyes. Do not ingest or inhale.*

### 6.2. Environmental Precautions

*Environmental precautions:*

*Prevent contamination of soils, drains and surface water.  
Contact local authorities if product pollutes soil or vegetation.*

### 6.3. Methods and Material for Containment and Cleaning Up

*Methods and material:*

*Wipe up with adsorbant material (e.g cloth, fleece).  
Contain with absorbent, inert material (sand, Silica Gel, acid  
binder, universal absorbent, saw dust) and dispose accordingly.*

### 6.4. Reference to other Sections

*Protective clothing, see Section 8.  
Dispose of contaminated material according to Section 13.*

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## 7. Handling and Storage

### 7.1. Precautions for Safe Handling

*Instructions on safe handling:*

*Keep containers tightly closed.  
Provide adequate ventilation.*

*Hygienic measures:*

### 7.2. Conditions for Safe Storage, including any Incompatibilities

*Storage conditions:*

*Store in tightly sealed containers in a cool and well ventilated  
location.  
Keep away from ignitable sources, heat and fire.*

*Requirements for storage areas and  
containers:*

*Store in a room with a solvent-proof floor.  
Suitable container material: polyethylene.  
Unsuitable container material: copper, plastics.*

*Information on fire and explosion  
protection:*

*Do not store together with: foodstuffs, beverages and feed.  
Combustible liquid.  
Vapors may form an explosive mixture with air.  
Do not store together with: oxidants.  
Do not store together with combustible and self-ignitable products.  
Keep away from sources of ignition - do not smoke. Take  
measures to prevent electrostatic discharge.*

*Storage class:*

*3; Flammable liquids (TRGS 510)*

*Further Information:*

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

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### 7.3. Specific End Use(s)

*Further information:*

### 8. Exposure Controls/Personal Protection

#### 8.1. Parameters to be Controlled

*Parameters to be controlled (DE):*

TRGS 900

Butyl acetate (CAS 123-86-4) TWA: 300 mg/m<sup>3</sup>, 62 ppm (long-term value); 600 mg/m<sup>3</sup>, 124 ppm (short-term value)

*Parameters to be controlled:*

Butyl acetate (CAS 123-86-4); IOELV (EC): Average value: 50 ppm, 241 mg/m<sup>3</sup>; Short term value: 150 ppm, 723 mg/m<sup>3</sup>; MAK (CH): Average value: 50 ppm, 240 mg/m<sup>3</sup>; Short term value: 150 ppm, 720 mg/m<sup>3</sup>; MAK (AT): Average value: 50 ppm, 241 mg/m<sup>3</sup>

*Derived No-Effect Level (DNEL):*

300 mg/m<sup>3</sup> (worker, inhalation, long-term exposure - systemic and local effects)

600 mg/m<sup>3</sup> (worker, inhalation, short-term exposure - systemic and local effects)

11 mg/kg bw/d (worker, skin contact, long-term/short-term exposure - systemic effects)

35.7 mg/m<sup>3</sup> (consumer, inhalation, long-term exposure - systemic and local effects)

300 mg/m<sup>3</sup> (consumer, inhalation, short-term exposure - systemic effects)

6 mg/kg bw/d (consumer, skin contact, long-term/short-term exposure - systemic effects)

2 mg/kg bw/d (consumer, swallowing, long-term/short-term exposure - systemic effects)

*Predicted No-Effect Concentration (PNEC):*

Fresh water: 0.18 mg/l

Seawater: 0.018 mg/l

Fresh water sediment: 0.981 mg/kg

Sea water sediment: 0.0981 mg/kg

Sewage treatment system (STP): 35.6 mg/l

Soil: 0.0903 mg/kg

Sporadic release: 0.36 mg/l

*Additional Information:*

#### 8.2. Exposure Controls

*Technical protective measures:*

Ensure adequate ventilation, especially in confined areas.

*Personal Protection*

*General protective measures:*

Remove contaminated clothing immediately.

Do not inhale gas/fumes/vapor/aerosol.

Avoid contact with skin, eyes and clothing.

Keep away from foodstuffs and drinks. Do not eat, drink or smoke.

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during work. Wash hands before breaks and at the end of work.

*Respiratory protection:*

Respiratory equipment required in case of insufficient ventilation.  
Filter type AX (organic vapors).

*Hand protection:*

Protective gloves (EN 374)

*Protective glove material:*

Polyethylene (PE), chloroprene rubber (CR), butyl rubber (> 0.35 mm)

Recommended: Protective index 4, corresponding > 120 min. of permeation time (EN 374).

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

The gloves have to be removed and replaced at the first signs of decomposition or chemical permeability.

*Eye protection:*

Tightly fitting safety goggles (EN 166).

*Body protection:*

Protective clothing.

*Environmental precautions:*

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

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## 9. Physical and Chemical Properties

### 9.1. Information on Basic Physical and Chemical Properties

<i>Form:</i>	liquid
<i>Color:</i>	colorless
<i>Odor:</i>	fruit-like
<i>Odor threshold:</i>	7 - 20 ppm
<i>pH-Value:</i>	6.2 (5 g/l; 20°C)
<i>Melting temperature:</i>	-90°C (1013 hPa)
<i>Boiling temperature:</i>	126°C (1013 hPa)
<i>Flash point:</i>	27°C (1013 hPa)
<i>Evaporation rate:</i>	12 (Ether=1)
<i>Flammability (solid, gas):</i>	not applicable
<i>Upper explosion limit:</i>	15 Vol.-%
<i>Lower explosion limit:</i>	1.2 Vol.-%
<i>Vapor pressure:</i>	15 hPa (20°C); 63 hPa (50°C)
<i>Vapor density:</i>	4 (20°C) (air=1)
<i>Density:</i>	0.88 g/cm <sup>3</sup> (20°C)

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<i>Solubility in water:</i>	5.3 g/l (20°C)
<i>Coefficient of variation (n-Octanol/Water):</i>	2.3 logKOW (25°C, OECD 117)
<i>Auto-ignition temperature:</i>	415°C (DIN 51794)
<i>Decomposition temperature:</i>	No data available.
<i>Viscosity, dynamic:</i>	0.73 mPa.s (20°C; ASTM D445)
<i>Explosive properties:</i>	Product is not explosive; however, an explosive vapor/air mixture can be formed.
<i>Oxidizing properties:</i>	not oxidizing
<i>Bulk density:</i>	not determined

### 9.2. Further Information

<i>Solubility in solvents:</i>	
<i>Viscosity, kinematic:</i>	0.83 mm <sup>2</sup> /s (20°C)
<i>Burning class:</i>	
<i>Solvent content:</i>	
<i>Solid content:</i>	
<i>Particle size:</i>	
<i>Other information:</i>	Molecular weight: 116.16 g/mol Surface tension: 61.3 mN/m (1 g/l; 20°C; OECD 115) Temperature class: T2 (maximum temperature: 300°C)

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## 10. Stability and Reactivity

10.1. Reactivity	Stable if used according to specifications. Vapors in combination with air can form an explosive compound.
10.2. Chemical Stability	No decomposition if used according to specifications.
10.3. Possibility of Hazardous Reactions	No information available.
10.4. Conditions to Avoid	Conditions to avoid: Avoid contact with heat, sparks and open fire. Thermal decomposition: No data available.
10.5. Incompatible Materials	Strong acids, strong bases and strong oxidizing agents.

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### 10.6. Hazardous Decomposition Products

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

### 10.7. Further Information

## 11. Toxicological Information

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

#### *Acute Toxicity*

*Is not classified as acutely toxic.*

#### *LD50, oral:*

*10760 mg/kg (rat; OECD 423)*

#### *LD50, dermal:*

*> 14112 mg/kg (rabbit; OECD 402)*

#### *LC50, inhalation:*

*23.4 mg/l (4h; rat; OECD 403)*

#### *Primary effects*

#### *Irritant effect on skin:*

*Non irritating (rabbit; OECD 404)*

#### *Irritant effect on eyes:*

*Non-irritating to eyes (rabbit; OECD 405)*

#### *Inhalation:*

*No information available.*

#### *Ingestion:*

*No information available*

#### *Sensitization:*

*Non sensitizing (guinea pig; OECD 406).*

#### *Mutagenicity:*

#### *In vitro genetic-toxicity:*

*Not mutagenic: Bacterial Reverse Mutation Test (Ames-Test, S. typhimurium; OECD 471)*

*Not mutagenic: Bacterial Reverse Mutation Test (Ames-Test, Escherichia coli; OECD 471)*

*In vitro Mammalian Chromosomal Aberration Test (OECD 473): negative*

*In vivo genetic-toxicity: Chromosomal Aberration Test (mouse m/f; OECD 474): negative*

#### *Reproductive toxicity:*

*NOAEC (fertility): 2000 ppm (rat, m/f, > 90d; OECD 416), no damaging effect*

#### *Carcinogenicity:*

*No relevant data found.*

#### *Teratogenicity:*

*LOAEL: 1500 ppm (maternal); 1500 ppm (developmental)*

*Inhalation (vapor); 3 weeks; 7 hours/day (rat; OECD 414)*

*NOAEC: 1500 ppm (maternal); 1500 ppm (developmental)*

*Inhalation (vapor); 30d ; 7 hours/day (rabbit; OECD 414): no effects*

#### *Specific target organ toxicity (STOT):*

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*Single exposure: may cause drowsiness or dizziness.*

*Repeated exposure: the substance or mixture is not classified as specific target organ toxicant.*

*NOAEC (inhalation): 500 ppm (rat, m/f, 90d, 5d/week; EPA OTS 798.2450)*

*Aspiration hazard*

*Not applicable*

### 11.2. Information on other Hazards

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

## 12. Ecological Information

### 12.1. Aquatic Toxicity

*Fish toxicity:*

*LC50: 18 mg/l (96h, Pimephales promelas; OECD 203)*

*Daphnia toxicity:*

*EC50: 44 mg/l (48h, Daphnia magna)*

*NOEC: 23 mg/l (21d, Daphnia magna; OECD 211)*

*Bacteria toxicity:*

*IC50: 356 mg/l (40h, Tetrahymena)*

*Terrestrial plants: EC50 > 1000 mg/kg (TW) (14d, Lactuca sativa (lettuce); OECD 208)*

*Algae toxicity:*

*EC50: 647.7 mg/l (72h, Desmodesmus subspicatus)*

*NOEC: 200 mg/l (Desmodesmus subspicatus)*

### 12.2. Persistency and Degradability

*83 % (28d); readily biodegradable (OECD 301D)*

*The product floats on the water surface and does not dissolve.*

*The product evaporates easily from water surface.*

### 12.3. Bioaccumulation

*Bioconcentration factor (BCF): 15.3*

*log KOW: 2.3 (25°C; OECD 117)*

### 12.4. Mobility

*Surface tension: 61.3 mN/m (1 g/l; 20°C) (OECD 115)*

*Product is water soluble.*

*Adsorption to solid soil phase is not expected.*

*Partition coefficient soil/water (Koc): 1.268*

### 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. Endocrine Disrupting Properties

*Not listed.*

### 12.7. Other Adverse Effects

*Water hazard class:*

*Do not let product contaminate ground water, waterways or*

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*sewage system.*

*Behaviour in sewage systems:*

*Further ecological effects:*

*AOX Value:*

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### 13. Disposal Considerations

#### 13.1. Waste Treatment Methods

*Product:*

*Solvent recovery / regeneration.*

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

*European Waste Code (EWC):*

*The waste code is determined according to the kind of waste and industry stated in the European Waste Catalogue.*

*Uncleaned packaging:*

*Empty container completely. Residues may cause an explosion hazard.*

*Do not puncture, cut or weld uncleaned drums. Risk of explosion.*

*Contaminated packaging must be disposed like the substance.*

*Waste Code No.:*

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### 14. Transport Information

#### 14.1. UN Number

*ADR, IMDG, IATA* 1123

#### 14.2. UN Proper Shipping Name

*ADR/RID:* BUTYLACETATE

*IMDG/IATA:* BUTYL ACETATES

#### 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-D

*IATA Class:* 3

*Hazard no.:* 3

#### 14.4. Packaging Group

*ADR/RID:* III

*IMDG:* III

*IATA:* III

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### 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

*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:*

*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.*

*Technical instructions on air quality:*

*5.2.5.: Organic substances (as total dust): > 25 wt-% (m<sub>g</sub> >= 0.50 kg/h, Konz. 50 mg/m<sup>3</sup>)*

### 15.2. Chemical Safety Assessment

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

### 15.3. Further Information

*Listed in the following inventories:*

*EINECS (204-658-1), TSCA (US), AICS (AUS), DSL (CA), ENCS (JP)(2)-731, ISHL (JP) 2-(6)-226, KECI (KR) KE-04179, PICCS (PH), NZIOC (NZ), IECSC (CN)*

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

*RoHS Directive 2011/65/EC on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS): not listed.*

*Fire hazard class (German "Flammable Liquids Ordinance" (VbF)): All (flammable liquids of group A, hazardous class II)*

*Decopaint Directive (2004/42/EC):*

*VOC Content: 100 %*

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## 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.*