

# Material Safety Data Sheet

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



## 70310 n-Amyl Acetate

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Revised edition: 05.11.2010

Version: 9.12

Printed: 01.03.2016

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

#### 1.1. Product Identifier

Product Name: n-Amyl Acetate

Article No.: 70310

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

Identified uses:

Synthesis chemical

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

E-Mail: 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 EC Regulation 1272/2008

H226 Flammable liquids, category 3  
Flammable liquid and vapour.  
Cat.: 3

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

R10 Flammable.  
R66 Repeated exposure may cause skin dryness or cracking.

Safety Phrases:

Possible Environmental Effects:

#### 2.2. Label Elements

Classification according to EC Regulation 1272/2008

Hazard designation:



GHS02-1

Signal word:

Warning

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### Hazard designation:

H226	Flammable liquid and vapour.
EUH066	Repeated exposure may cause skin dryness or cracking.

### Safety designation:

P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
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### Hazardous components for labelling:

#### 2.3. Other Hazards

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### 3. Composition/Information on Ingredients

#### 3.1. Substance

#### 3.2. Mixture

### Chemical Characterization:

### Hazardous Ingredients:

n-Amyl acetate (H226)

CAS-Nr: 628-63-7

EINECS-Nr: 211-047-3

EC-Nr: 607-130-00-2

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### Additional information:

#### 4. First Aid Measures

##### 4.1. Description of the First Aid Measures

### General information:

*Seek medical attention in case of complaints.*

### After inhalation:

*Supply fresh air.*

### After skin contact:

*Wash off with plenty of water.*

*Change soiled clothing.*

### After eye contact:

*Rinse open eyes with plenty of water. In case of discomfort seek medical help.*

### After ingestion:

*Careful when vomiting. Risk of aspiration. Keep respiratory tract open.*

*Pulmonary failure possible. Consult physician.*

*Do not give milk or castor oil to drink.*

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

### Symptoms:

*Irritant effects, dizziness, headache, cough, nausea, breathlessness, vomiting, narcosis, diarrhea, muscle weakness, ataxia, confusion, coma*

### Effects:

*May cause skin dryness and chapped skin due to the degreasing effect.*

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

*Treatment:*

*Laxans: sodium sulfate (1 spoon / 250 ml H<sub>2</sub>O).*

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### 5. Fire-Fighting Measures

#### 5.1. Extinguishing Media

*Suitable extinguishing media:*

*Foam, CO<sub>2</sub>, dry extinguishing powder.*

*Unsuitable extinguishing media:*

*None known.*

#### 5.2. Special Hazards arising from the Substance or Mixture

*Special hazards:*

*Combustible material.*

*Formation of hazardous combustion gases or vapors possible in the event of fire.*

*Vapor is heavier than air and spreads along the ground.*

*When heated an explosive mixture with air can be formed.*

#### 5.3. Advice for Firefighters

*Protective equipment:*

*Wear suitable protective clothing.*

*Wear self-contained respiratory protective device.*

*Further information:*

*Avoid contamination of sewage system, open water ways and ground water.*

*Cool exposed containers with water spray.*

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### 6. Accidental Release Measures

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

*Personal precautions:*

*Evacuate the danger area, observe emergency procedures, consult an expert.*

*Ensure adequate ventilation.*

*Wear protective clothing.*

#### 6.2. Environmental Precautions

*Environmental precautions:*

*Do not discharge into drains; risk of explosion.*

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

*Methods and material:*

*Cover drains. Collect, bind and pump off spills.*

*Contain with absorbent material (e.g. Chemisorb®) and dispose accordingly. Clean remains.*

#### 6.4. Reference to other Sections

*See Section 13 for information on disposal.*

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### 7. Handling and Storage

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### 7.1. Precautions for Safe Handling

*Instructions on safe handling:*

*Avoid contact with eyes, skin and clothing.*

*Hygienic measures:*

*Wash thoroughly after handling.*

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

*Storage conditions:*

*Store in tightly sealed containers in a dry and well ventilated location.*

*Requirements for storage areas and containers:*

*Storage: In the original container.*

*Keep container tightly closed.*

*Information on fire and explosion protection:*

*Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges.*

*Keep away from sources of ignition - do not smoke.*

*Storage class (VCI):*

*3: Flammable liquids*

*Further Information:*

*Storage temperature: 15 - 25°C*

### 7.3. Specific End Use(s)

*Further information:*

*See Section 1.2.; no other uses provided*

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## 8. Exposure Controls/Personal Protection

### 8.1. Parameters to be Controlled

*Parameters to be controlled (DE):*

*Pentyl acetate (CAS 628-63-7), TLV: 50 mg/m<sup>3</sup>; 270 mg/m<sup>3</sup>; 1 (I)  
Category I: Substances for which the localized effect has an assigned OEL or for substances with a sensitizing effect in respiratory passages.*

*Parameters to be controlled:*

*ECTLV (EU): Short term exposure limit (STEL): 540 mg/m<sup>3</sup>; 100 ppm; Time weighted average (TWA): 270 mg/m<sup>3</sup>; 50 ppm*

*Derived No-Effect Level (DNEL):*

*Predicted No-Effect Concentration (PNEC):*

*Additional Information:*

### 8.2. Exposure Controls

*Technical protective measures:*

*Technical protective measures have priority to personal protective measures.*

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### Personal Protection

#### General protective measures:

Remove contaminated clothing. Wash hands after work.

#### Respiratory protection:

Required in case of formation of vapors and aerosols.

Recommended: filter A (EN 143)

#### Hand protection:

Protective gloves (EN 374)

#### Protective glove material:

For short-term exposure: butyl rubber (> 240 min; 0.7 mm).

#### Eye protection:

Safety glasses (EN 166)

#### Body protection:

Protective clothing (flame-proof, antistatic).

#### Environmental precautions:

Do not allow entering sewerage system.

Risk of explosion.

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## 9. Physical and Chemical Properties

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

Form:	liquid
Color:	colorless
Odor:	characteristic
Odor threshold:	No information available.
pH-Value:	not available
Melting temperature:	-71°C
Boiling temperature:	149°C (1013 hPa)
Flash point:	41°C
Evaporation rate:	No information available.
Flammability (solid, gas):	not available
Upper explosion limit:	7.5 Vol. %
Lower explosion limit:	1.1 Vol. %
Vapor pressure:	6 hPa (20°C)
Vapor density:	4.5
Density:	0.87 g/cm <sup>3</sup> (20°C)
Solubility in water:	10 g/l

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*Coefficient of variation (n-Octanol/Water):*

2.30 logPOW

*Auto-ignition temperature:*

No information available.

*Decomposition temperature:*

No data available.

*Viscosity, dynamic:*

not available

*Explosive properties:*

not available

*Oxidizing properties:*

No information available.

*Bulk density:*

### 9.2. Further Information

*Solubility in solvents:*

*Viscosity, kinematic*

*Burning class:*

*Solvent content:*

*Solid content:*

*Particle size:*

*Other information:*

*Ignition temperature: 350°C*

## 10. Stability and Reactivity

### 10.1. Reactivity

*Vapor/air mixtures are explosive when heated strongly.*

### 10.2. Chemical Stability

*Stable if used according to specifications.*

### 10.3. Possibility of Hazardous Reactions

*Ignition hazard and formation of inflammable gases or vapors with: alkali metals, strong oxidants.*

### 10.4. Conditions to Avoid

*Conditions to avoid:*

*Avoid heat.*

*Critical temperature is the range about 15 Kelvin below the flash point.*

*Thermal decomposition:*

### 10.5. Incompatible Materials

*Rubber, various plastics.*

### 10.6. Hazardous Decomposition Products

*No information available.*

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### 10.7. Further Information

## 11. Toxicological Information

### 11.1. Information on Toxicological Effects

#### Acute Toxicity

##### LD50, oral:

> 1600 mg/kg (rat)

Symptoms: nausea, vomiting, diarrhea, acute lung failure as a result of the aspiration of stomach contents. Aspiration can cause pulmonary edema and pneumonia.

##### LD50, dermal:

No information available.

##### LC50, inhalation:

Symptoms: mucosal irritations, coughing, laboured breathing.

#### Primary effects

##### Irritant effect on skin:

Repeated contact can cause chapped or cracked skin.

##### Irritant effect on eyes:

Slight irritant effect

##### Inhalation:

No irritant effect known.

##### Ingestion:

No irritant effect known.

##### Sensitization:

No information available.

##### Mutagenicity:

No data available.

##### Reproductive toxicity:

No data available.

##### Cancerogenity:

No data available.

##### Teratogenicity:

No information available.

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

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

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

##### Additional toxicological information:

Aspiration hazard: not applicable

After resorption of large amounts:

Narcosis

Possible symptoms: Headache, muscle weakness, dizziness, ataxia, confusion, heart rhythm disorders, coma.

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*After intaking of a larger amount: damage to the liver.  
Handle in accordance with good industrial hygiene and safety practice.*

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### 12. Ecological Information

#### 12.1. Aquatic Toxicity

*Fish toxicity:*

*LC50: 65 mg/l (96h, Gambusia affinis; OECD 203)*

*Daphnia toxicity:*

*EC0: 180 mg/l (Daphnia magna)*

*Bacteria toxicity:*

*No data available.*

*Algae toxicity:*

*IC0: 120 mg/l (algae)*

#### 12.2. Persistency and Degradability

*No information available.*

#### 12.3. Bioaccumulation

*log Pow: 2.30*

*No bioaccumulation expected.*

#### 12.4. Mobility

*No information available.*

#### 12.5. Results of PBT- und vPvP Assessment

*PBT/vPvB assessment not available as chemical safety assessment is not required / not conducted.*

#### 12.6. Other Adverse Effects

*Water hazard class:*

*1, slightly hazardous*

*Behaviour in sewage systems:*

*Further ecological effects:*

*Do not let product enter waterways or sewage system.*

*AOX Value:*

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### 13. Disposal Considerations

#### 13.1. Waste Treatment Methods

*Product:*

*Dispose of product residues according to the waste disposal guidelines 2008/98/EC as well as according to official national and local regulations.*

*Leave chemical in original containers. Do not mix with other waste.*

*European Waste Code (EWC):*

*Uncleaned packaging:*

*Packaging may be disposed of in the same manner as the product.*

*Waste Code No.:*

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### 14. Transport Information

#### 14.1. UN Number

ADR, IMDG, IATA 1104

#### 14.2. UN Proper Shipping Name

ADR/RID: AMYLACETATE

IMDG/IATA: AMYL ACETATES

#### 14.3. Transport Hazard Classes

ADR Class: 3

Hazard no.: 3

Classification code: F1

Tunnel no.: 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

#### 14.5. Environmental Hazards

#### 14.6. Special Precautions for User

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

#### 14.8. Further Information

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### 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

Local regulations on chemical accidents:

Flammable, 6

Quantity 1: 5000 t; Quantity 2: 50000 t

Employment restrictions:

Restriction and prohibition of application:

Technical instructions on air quality:

#### 15.2. Chemical Safety Assessment

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

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### 15.3. Further Information

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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.*