

Safety Data Sheet

According to 91/155 EEC

Printing date 24.06.2009 Revision: 24.06.2009

· **Product details**

· **Trade name:** *n-butyl acetate*

· **Manufacturer/Supplier:**

Petrochem Middle East FZE

PO Box 17028,

Jebel Ali Free Zone

Dubai, UAE

Ph +971 4 8839222; Fax +971 4 8834133

· **Further information obtainable from:** *Product safety department.*

· **Information in case of Emergency** *Product safety department.*

· **Chemical characterization:**

· **CAS No. Description**

123-86-4 n-butyl acetate

· **Identification number(s)**

· **EINECS Number:** *204-658-1*

· **Index number:** *607-025-00-1*

· **Hazard description:** *Not applicable.*

· **Information concerning particular hazards for human and environment:**

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

R 10 Flammable.

R 66 Repeated exposure may cause skin dryness or cracking.

R 67 Vapours may cause drowsiness and dizziness.

· **After inhalation:** *Supply fresh air; consult doctor in case of complaints.*

· **After skin contact:** *Generally the product does not irritate the skin.*

· **After eye contact:** *Rinse opened eye for several minutes under running water.*

· **After swallowing:** *If symptoms persist consult doctor.*

· **Suitable extinguishing agents:**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **For safety reasons unsuitable extinguishing agents:** *Water with full jet*

· **Protective equipment:** *No special measures required.*

· **Person-related safety precautions:** *Wear protective equipment. Keep unprotected persons away.*

· **Measures for environmental protection:** *Do not allow to enter sewers/ surface or ground water.*

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· **Measures for cleaning/collecting:** *Dilute with plenty of water.*

· **Handling:**

· **Information for safe handling:** *No special requirement*

· **Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** No special requirements.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:** Keep container tightly sealed.

· **Additional information about design of technical facilities:** No further data; see item 7.

· **Ingredients with limit values that require monitoring at the workplace:**

123-86-4 n-butyl acetate

PEL (USA)

REL (USA)

TLV (USA)

WEL (Great Britain)

710 mg/m³, 150 ppm

Short-term value: 950 mg/m³, 200 ppm

Long-term value: 710 mg/m³, 150 ppm

Short-term value: 950 mg/m³, 200 ppm

Long-term value: 713 mg/m³, 150 ppm

Short-term value: 966 mg/m³, 200 ppm

Long-term value: 724 mg/m³, 150 ppm

· **Additional information:** The lists valid during the making were used as basis.

· **Personal protective equipment:**

· **General protective and hygienic measures:** Wash hands before breaks and at the end of work.

· **Respiratory protection:** Not required.

· **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the

preparation/ the

chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the

degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and

varies from manufacturer to manufacturer.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be

observed.

· **Eye protection:**

Tightly sealed goggles

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· **General Information**

Form: Fluid

Colour: Colourless

Odour: Fruit-like

· **Change in condition**

Melting point/Melting range: -76°C

Boiling point/Boiling range: 124-128°C

· **Flash point:** 27°C

· **Ignition temperature:** 370°C

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· **Explosion limits:**

Lower: 1.2 Vol %

Upper: 7.5 Vol %

· **Vapour pressure at 20°C:** 10.7 hPa

· **Density at 20°C:** 0.88 g/cm³

· **Solubility in / Miscibility with**

water at 20°C: 5 g/l

· **pH-value (5 g/l) at 20°C:** 5

· **Viscosity:**

Dynamic at 20°C: 0.7 mPas

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

· **Dangerous reactions** No dangerous reactions known.

· **Dangerous decomposition products:** No dangerous decomposition products known.

· **Acute toxicity:**

· **LD/LC50 values relevant for classification:**

Oral LD50 13100 mg/kg (rat)

Dermal LD50 >5000 mg/kg (rabbit)

Inhalative LC50/4 h >21.0 mg/l (rat)

· **Primary irritant effect:**

· **on the skin:** No irritant effect.

· **on the eye:** No irritating effect.

· **Sensitization:** No sensitizing effects known.

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· **General notes:**

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· **Product:**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

· **Land transport ADR/RID (cross-border)**

· **ADR/RID class:** 3 Flammable liquids.

· **Danger code (Kemler):** 30

· **UN-Number:** 1123

- **Packaging group:** III
- **Hazard label:** 3
- **Description of goods:** 1123 BUTYL ACETATES
- **Maritime transport IMDG:**
- **IMDG Class:** 3
- **UN Number:** 1123
- **Label** 3
- **Packaging group:** III
- **EMS Number:** F-E,S-D
- **Marine pollutant:** No
- **Proper shipping name:** BUTYL ACETATES
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1123
- **Label** 3
- **Packaging group:** III

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- **Proper shipping name:** BUTYL ACETATES

Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

Risk phrases:

10 Flammable.

66 Repeated exposure may cause skin dryness or cracking.

67 Vapours may cause drowsiness and dizziness.

Safety phrases:

2 Keep out of the reach of children.

25 Avoid contact with eyes.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing MSDS:** Product safety department

· **Contact:** Mr. Menon

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SALES SPECIFICATION Code: NBA

Description: n-Butyl Acetate

Test Description	Specification Limits		Unit of Measure	Test Method
	Min.	Max.		
n-Butyl Acetate	99		%(w/w)	Gas Chromatography
Water	0.03		%(w/w)	DIN 51777/ ASTM D1744
Acid Number	0.05		mg KOH/g	DIN EN ISO 2114/ ASTM D 664
Residue on evaporation	5		mg/100 ml	
Appearance	Liquid clear			
Colour (APHA)	10		Mg Pt/l	DIN ISO 6271/ ASTM D 1209
Physical & Chemical Properties				
Molar Mass	116.16		g/mol	
Relative density 20/20 °C	0.879		0.882	
Refractive Index @ 20 °C	1.394		1.396	
Boiling range at 1013 hPa	ca.124	128	°C	
Solidification point	ca. -77.9		°C	
Viscosity at 20 °C	0.74		mPas	
Dipole Moment	1.84		D	
Solubility Parameter at 25 °C	17.4		(J/cm ³) ^{1/2}	
Heat of evaporation at 20 °C	36.5		kJ/mol	
Vapour Pressure at 20 °C	11.1		hPa	

Comments: Physical properties are not monitored constantly.

Issue of Revision Date: 21-03-2006 Spec Version Number: 1