Printing date 07/01/2024

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# **1** Identification

- · Product identifier
- · Trade name: Butyl Acetate, Reagent ACS Grade
- · Article number: B8203
- · CAS Number:
- *123-86-4* • *EC number:*
- 204-658-1
- Index number: 607-025-00-1
- Details of the supplier of the safety data sheet
  Manufacturer/Supplier: Aqua Solutions, Inc.
  6913 Highway 225 DEER PARK, TX 77536 USA
  800-256-2586
- Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions.org
- Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666

## 2 Hazard(s) identification

· Classification of the substance or mixture

GHS02 Flame

Flammable Liquids 3

H226 Flammable liquid and vapor.

GHS07

Specific Target Organ Toxicity - Single Exposure 3 H336 May cause drowsiness or dizziness.

· Label elements

• *GHS label elements* The substance is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms* 



· Signal word Warning

• Hazard statements

Flammable liquid and vapor.

May cause drowsiness or dizziness.

· Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment.

(Contd. on page 2)

US

Printing date 07/01/2024

Reviewed on 07/01/2024

## Trade name: Butyl Acetate, Reagent ACS Grade

	(Contd. of page 1)
Use explosion-proof electrical/ventilating/lighting/equipment.	
Use only non-sparking tools.	
Take precautionary measures against static discharge.	
Avoid breathing dust/fume/gas/mist/vapors/spray	
Use only outdoors or in a well-ventilated area.	
Wear protective gloves/protective clothing/eye protection/face protection.	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/s	shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
Call a poison center/doctor if you feel unwell.	
In case of fire: Use CO2, powder or water spray to extinguish.	
Store in a well-ventilated place. Keep container tightly closed.	
Store in a well-ventilated place. Keep cool.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international reg	ulations.
· Classification system:	
· NFPA ratings (scale 0 - 4)	
Health = 0	
$\frac{3}{Fire = 3}$	
$\begin{array}{c} 0 \\ 0 \\ \end{array} \begin{array}{c} 0 \\ Reactivity = 0 \end{array}$	
Keuchivity = 0	
· HMIS-ratings (scale 0 - 4)	
HEALTH 2 $Health = 2$	
$\square$ $\square$ $\square$ $\square$ $\square$	
FIRE 2 $Fire = 2$	
<b>REACTIVITY</b> $\begin{bmatrix} 0 \end{bmatrix}$ Reactivity = 0	
· Other hazards	
· Results of PBT and vPvB assessment	
• <b><i>PBT</i></b> : Not applicable.	
• <b>vPvB</b> : Not applicable.	
3 Composition/information on ingredients	
e composition afformation on angloant	
· Chemical characterization: Substances	
· CAS No. Description	
CAS: 123-86-4 Butyl Acetate	
Identification number(s)	
· FC number: 204-658-1	

• **EC number:** 204-658-1

\*

· Index number: 607-025-00-1

## 4 First-aid measures

- · Description of first aid measures
- 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.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.

(Contd. on page 3)

US

Printing date 07/01/2024

Reviewed on 07/01/2024

(Contd. of page 2)

#### Trade name: Butyl Acetate, Reagent ACS Grade

• *Indication of any immediate medical attention and special treatment needed No further relevant information available.* 

#### **5** Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

#### **6** Accidental release measures

- *Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.*
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- *Methods and material for containment and cleaning up:* Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.
- **Reference to other sections** See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.
- · Protective Action Criteria for Chemicals
- · PAC-1: 5 ppm
- · PAC-2: 200 ppm
- PAC-3: 3000\* ppm

#### 7 Handling and storage

- · Handling:
- Precautions for safe handling No special precautions are necessary if used correctly.
- · Information about protection against explosions and fires:
- Keep ignition sources away Do not smoke. Protect against electrostatic charges.
- · Conditions for safe storage, including any incompatibilities
- · 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 receptacle tightly sealed.
- *Specific end use(s) No further relevant information available.*
- 8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see section 7.

(Contd. on page 4)

US

Printing date 07/01/2024

Reviewed on 07/01/2024

# Trade name: Butyl Acetate, Reagent ACS Grade

(Contd. of page 3)

CAS: 123-86-4 Butyl Acetate			
PEL	Long-term value: 710 mg/m³, 150 ppm		
	Short-term value: 950 mg/m³, 200 ppm Long-term value: 710 mg/m³, 150 ppm		
TLV	Short-term value: 150 ppm Long-term value: 50 ppm		
Addit	ional information: The lists that were valid during the creation were used as basis.		
Exno	sure controls		
-	nal protective equipment:		
	ral protective and hygienic measures: Wash hands before breaks and at the end of work.		
	thing equipment: Not required.		
	ction of hands:		
	love material has to be impermeable and resistant to the product/ the substance/ the preparation.		
	to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the		
	ical mixture.		
	tion of the glove material on consideration of the penetration times, rates of diffusion and the degradation		
	rial of gloves		
The s varie.	election of the suitable gloves does not only depend on the material, but also on further marks of quality and s from manufacturer to manufacturer.		
	tration time of glove material		
The e obser	exact break through time has to be found out by the manufacturer of the protective gloves and has to b ved.		
Eye p	rotection:		
Eye p	protection:		

· Body protection: Protective work clothing

\*

Information on basic physical and chemical properties General Information			
Appearance: Form:	Liquid		
Color:	Colorless		
Odor:	Fruit-like		
Odor threshold:	Not determined.		
pH-value:	5		
Change in condition			
Melting point/Melting range:	-76 °C (-104.8 °F)		
Boiling point/Boiling range:	124-128 °C (255.2-262.4 °F)		
Flash point:	27 °C (80.6 °F)		
Flammability (solid, gaseous):	Flammable.		

Printing date 07/01/2024

Reviewed on 07/01/2024

#### Trade name: Butyl Acetate, Reagent ACS Grade

	(Contd. of page 4
· Auto igniting:	370 °C (698 °F)
· Decomposition temperature:	Not determined.
· Ignition temperature:	Not determined.
• Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits:	
Lower:	1.2 Vol %
Upper:	7.5 Vol %
· Vapor pressure at 20 °C (68 °F):	10.7 hPa (8 mm Hg)
· Vapor pressure at 50 °C (122 °F):	55 hPa (41.3 mm Hg)
• Density at 20 °C (68 °F):	0.88 g/cm <sup>3</sup> (7.3436 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
<i>Water at 20 °C (68 °F):</i>	5 g/l
· Partition coefficient (n-octanol/wate	r): Not determined.
· Viscosity:	
Dynamic at 20 °C (68 °F):	0.7 mPas
Kinematic:	Not determined.
• Other information	No further relevant information available.

# **10 Stability and reactivity**

• *Reactivity* No further relevant information available.

· Chemical stability

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- *Incompatible materials:* No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

# **11 Toxicological information**

- · Information on toxicological effects
- · Acute toxicity:
- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- $\cdot$  Additional toxicological information:

· Carcinogenic categories

- · IARC (International Agency for Research on Cancer) Substance is not listed.
- · NTP (National Toxicology Program) Substance is not listed.

(Contd. on page 6)

US

Printing date 07/01/2024

Reviewed on 07/01/2024

Trade name: Butyl Acetate, Reagent ACS Grade

• OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

#### **12 Ecological information**

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:
- Water hazard class 1 (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. • Results of PBT and vPvB assessment

- *PBT:* Not applicable.
- · **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

### **13 Disposal considerations**

- · Waste treatment methods
- · Recommendation:

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

· Uncleaned packagings:

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

· UN-Number		
DOT, IMDG, IATA	UN1123	
· UN proper shipping name		
DOT	Butyl acetates	
· IMDG, IATA	<b>BUTYL ACETATES</b>	
· Class	3 Flammable liquids	
· Label	3	

(Contd. of page 5)

Printing date 07/01/2024

Reviewed on 07/01/2024

#### Trade name: Butyl Acetate, Reagent ACS Grade

	(Contd. of page
IMDG, IATA	
Class Label	3 Flammable liquids 3
2	5
Packing group	
DOT, IMDG, IATA	11
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code):	: 30
EMS Number:	F-E,S-D
Stowage Category	В
Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 5 L
	On cargo aircraft only: 60 L
IMDG	
Limited quantities (LQ)	1L
Excepted quantities $(\widetilde{E}Q)$	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1123 BUTYL ACETATES, 3, II

### **15 Regulatory information**

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

- · Section 355 (extremely hazardous substances): Substance is not listed.
- Section 313 (Specific toxic chemical listings): Substance is not listed.
- · TSCA (Toxic Substances Control Act): ACTIVE
- · Hazardous Air Pollutants Substance is not listed.
- · Proposition 65
- · Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.
- · Carcinogenic categories
- · EPA (Environmental Protection Agency) Substance is not listed.
- · TLV (Threshold Limit Value) Substance is not listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- · GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS).

(Contd. on page 8)

Printing date 07/01/2024

Reviewed on 07/01/2024

Trade name: Butyl Acetate, Reagent ACS Grade

(Contd. of page 7) · Hazard pictograms GHS07 GHS02 · Signal word Warning · Hazard statements Flammable liquid and vapor. May cause drowsiness or dizziness. · Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. In case of fire: Use CO2, powder or water spray to extinguish. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Chemical safety assessment: A Chemical Safety Assessment has not been carried out. **16 Other information** 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 SDS: Environment protection department.
- · Contact: Date of Preparation / Last Revision: · Date of preparation / last revision Revision 1.2 06/27/2024: Reviewed SDS for accuracy. MH/STN 07/01/2024 / 1.0 · Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit **REL:** Recommended Exposure Limit Flammable Liquids 3: Flammable liquids - Category 3

(Contd. on page 9)

Printing date 07/01/2024

Reviewed on 07/01/2024

Trade name: Butyl Acetate, Reagent ACS Grade

Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3 · \* Data compared to the previous version altered.

(Contd. of page 8)

US