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AQUA SOLUTIONS
AQUA SOLUTIONS
AQUA SOLUTIONS
6 Flammable liquid and vapor.
8 Causes serious eye damage.
2 Harmful if swallowed.
2 Harmful if inhaled.
5 Causes skin irritation.
7 May cause an allergic skin reaction.
2

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Trade name: Butyl Acrylate 60% w/w Butanol 40% w/w

(Contd. of page 1) · Hazard pictograms GHS02 GHS05 GHS07 · Signal word Danger · Hazard-determining components of labeling: **Butyl** Acrylate n-Butyl Alcohol · Hazard statements Flammable liquid and vapor. Harmful if swallowed or if inhaled. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. May cause respiratory irritation. 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 Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eve protection/face protection. If swallowed: Call a poison center/doctor if you feel unwell. 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. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Specific treatment (see on this label). Rinse mouth. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. 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. · Classification system: · NFPA ratings (scale 0 - 4) Health = 3Fire = 3Reactivity = 0

(Contd. on page 3)

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Trade name: Butyl Acrylate 60% w/w Butanol 40% w/w

(Contd. of page 2)

60.0%

40.0%

· HMIS-ratings (scale 0 - 4)

HEALTH\*3Health = 
$$*3$$
FIRE3Fire = 3REACTIVITY0Reactivity = 0

· Other hazards

· Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- · vPvB: Not applicable.

#### 3 Composition/information on ingredients

· Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 141-32-2 Butyl Acrylate

CAS: 71-36-3 n-Butyl Alcohol

#### 4 First-aid measures

#### · Description of first aid measures

• General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air and to be sure call for a doctor.

- In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: Immediately call a doctor.

• Information for doctor:

- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- 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.

- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

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Trade name: Butyl Acrylate 60% w/w Butanol 40% w/w

(Contd. of page 3)

	utions, protective equipment and emergency procedures	
	e equipment. Keep unprotected persons away.	
Environmental		
Dilute with pler		
	enter sewers/ surface or ground water.	
	naterial for containment and cleaning up:	
	uid-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
Use neutralizin		
	ninated material as waste according to section 13.	
Ensure adequa		
Reference to ot		
	or information on safe handling.	
	or information on personal protection equipment.	
	for disposal information.	
Protective Action	on Criteria for Chemicals	
<i>PAC-1:</i>		
CAS: 141-32-2	Butyl Acrylate	8.3 pp
0110. 111 52 2	Durytherytuic	
	n-Butyl Alcohol	60 ppr
CAS: 71-36-3		60 ppi
CAS: 71-36-3	n-Butyl Alcohol	I
CAS: 71-36-3 PAC-2:	n-Butyl Alcohol	130 pp
CAS: 71-36-3 <b>PAC-2:</b> CAS: 141-32-2 CAS: 71-36-3	n-Butyl Alcohol Butyl Acrylate	130 pp
CAS: 71-36-3 PAC-2: CAS: 141-32-2 CAS: 71-36-3 PAC-3:	n-Butyl Alcohol Butyl Acrylate	60 ppr 130 pp 800 pp 480 ppm

#### 7 Handling and storage

#### · Handling:

- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- 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.

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<sup>-</sup> US

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## Trade name: Butyl Acrylate 60% w/w Butanol 40% w/w

(Contd. of page 4)

C	rol parameters
	ponents with limit values that require monitoring at the workplace:
	141-32-2 Butyl Acrylate
	Long-term value: 55 mg/m <sup>3</sup> , 10 ppm
	Long-term value: 2 ppm DSEN, A4
CAS:	71-36-3 n-Butyl Alcohol
PEL	Long-term value: 300 mg/m <sup>3</sup> , 100 ppm
REL	Ceiling limit value: 150 mg/m³, 50 ppm Skin
TLV	Long-term value: 20 ppm
Addii	tional information: The lists that were valid during the creation were used as basis.
Wash Avoid Avoid <b>Brea</b> In ca respin	ediately remove all soiled and contaminated clothing. a hands before breaks and at the end of work. a contact with the skin. a contact with the eyes and skin. thing equipment: se of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure us ratory protective device that is independent of circulating air. tretion of hands: D
	Protective gloves
Due i chem	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/ th ical mixture.
Mate	tion of the glove material on consideration of the penetration times, rates of diffusion and the degradation <b>rial of gloves</b>
varie the g	election of the suitable gloves does not only depend on the material, but also on further marks of quality an s from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of love material can not be calculated in advance and has therefore to be checked prior to the application. <b>tration time of glove material</b>
The	exact break through time has to be found out by the manufacturer of the protective gloves and has to b

Tightly sealed goggles

· Body protection: Protective work clothing

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Trade name: Butyl Acrylate 60% w/w Butanol 40% w/w

(Contd. of page 5)

Information on basic physical and c	hemical properties
General Information	nemicui properties
Appearance:	
Form:	Liquid
Color:	Clear
Odor:	Characteristic
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	116 °C (240.8 °F)
Flash point:	35 °C (95 °F)
Flammability (solid, gaseous):	Flammable.
Auto igniting:	275 °C (527 °F)
Decomposition temperature:	Not determined.
Ignition temperature:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapo mixtures are possible.
Explosion limits:	
Lower:	1.2 Vol %
Upper:	9.4 Vol %
Vapor pressure at 20 °C (68 °F):	6.7 hPa (5 mm Hg)
Density at 20 °C (68 °F):	0.85788 g/cm³ (7.15901 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Fully miscible.
Partition coefficient (n-octanol/wate	<b>r</b> ): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	40.0 %
VOC content:	40.00 %
	343.2 g/l / 2.86 lb/gal
Solids content:	0.0 %
Other information	No further relevant information available.

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Trade name: Butyl Acrylate 60% w/w Butanol 40% w/w

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#### **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:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

		682 mg/kg
		2,993 mg/kg (rabbit)
Inhalative	LC50/4h	18.3 mg/l

- · Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Strong irritant with the danger of severe eye injury.
- Sensitization: Sensitization possible through skin contact.

· Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Harmful

Irritant

#### · Carcinogenic categories

· IARC (International Agency for Research on Cancer)

CAS: 141-32-2 Butyl Acrylate

#### · NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is 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 (Self-assessment): slightly hazardous for water

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

(Contd. on page 8)

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3

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Trade name: Butyl Acrylate 60% w/w Butanol 40% w/w

(Contd. of page 7)

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

· Results of PBT and vPvB assessment

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

 $\cdot \textit{Other adverse effects}$  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.* 

· Recommended cleansing agent: Water, if necessary with cleansing agents.

· UN-Number	
· DOT, IMDG, IATA	UN1993
· UN proper shipping name	
DOT	Flammable liquids, n.o.s. (Butyl Acrylate, Butanols)
·IMDG	FLAMMABLE LIQUID, N.O.S. (Butyl Acrylate, Butanols
T A 77 A	MARINE POLLUTANT
· IATA	FLAMMABLE LIQUID, N.O.S. (Butyl Acrylate, Butanols)
• Transport hazard class(es)	
DOT	
FLAMABLE LOUD	
· Class	3 Flammable liquids
· Label	3
· IMDG	
$\checkmark$	
· Class	3 Flammable liquids
· Label	3
· IATA	
V	
· Class	3 Flammable liquids

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Trade name: Butyl Acrylate 60% w/w Butanol 40% w/w

	(Contd. of page
Label	3
Packing group DOT, IMDG, IATA	111
Environmental hazards: Marine pollutant:	Product contains environmentally hazardous substances: Buty Acrylate No Symbol (fish and tree)
Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Category	Warning: Flammable liquids : 30 F-E, <u>S-E</u> A
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: 60 L On cargo aircraft only: 220 L
IMDG Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (BUTYL ACRYLATE BUTANOLS), 3, III

## 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):	
None of the ingredients is listed.	
· Section 313 (Specific toxic chemical listings):	
All ingredients are listed.	
· TSCA (Toxic Substances Control Act):	
Butyl Acrylate	ACTIVE
n-Butyl Alcohol	ACTIVE
· Hazardous Air Pollutants	
None of the ingredients is listed.	
· Proposition 65	
· Chemicals known to cause cancer:	
None of the ingredients is listed.	
	Contd. on page 10)

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Trade name: Butyl Acrylate 60% w/w Butanol 40% w/w

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D

A4

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

CAS: 71-36-3 n-Butyl Alcohol

· TLV (Threshold Limit Value)

CAS: 141-32-2 Butyl Acrylate

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

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



· Signal word Danger

· Hazard-determining components of labeling: Butyl Acrylate n-Butyl Alcohol · Hazard statements Flammable liquid and vapor. Harmful if swallowed or if inhaled. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. May cause respiratory irritation. 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 Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Call a poison center/doctor if you feel unwell. 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.* If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (Contd. on page 11)

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Reviewed on 05/15/2024

Trade name: Butyl Acrylate 60% w/w Butanol 40% w/w

(Contd. of page 10)

Immediately call a poison center/doctor. Specific treatment (see on this label). Rinse mouth. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. 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, 05/15/2024: Reviewed SDS for accuracy. MH/STN Revision 0.0, 04-30-2024: Creation date for SDS. STN 05/15/2024 · 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 ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent 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 Acute Toxicity - Oral 4: Acute toxicity - Category 4 Skin Irritation 2: Skin corrosion/irritation - Category 2 Eye Damage 1: Serious eye damage/eye irritation - Category 1 Sensitization - Skin 1: Skin sensitisation - Category 1 Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) - Category 3

• \* Data compared to the previous version altered.

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