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Product identifier Trade name: Regent #2 BorZinco Analysis Article number: VUL394SUB Details of the supplier of the safety data sheet Manufacturer/Supplier: Aqua Solutinons, Inc. 6013 Highway 225 DFER PARK, TX 77336 USA 800-256-2586 Information department: Technical Coordinator Sherman Netson shermann@aquasolutions.org Emergency telephone number: Chemize: 800-224-9300 Canutes: 013-3996-6666 Information of the substance or mixture Chemize: 800-424-9300 Canutes: 013-996-6666 Information of the substance or mixture Substance of the substance or mixture Substance of the substance or mixture Information of the substance or mixture Substance of the substance or substance of the substance or substan	nting date 06/24/2024	Keviewea on 06/24/20
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Technical Coordinator Sherman Nelson shermann@aquasolutions.org Emergency telephone number: Chemtree: 800-424-9300 Canutee: 613-996-6666	6913 Highway 225 DEER PARK, TX 77536 USA	AQUA SOLUTIONS
Classification of the substance or mixture	• Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions.org • Emergency telephone number: Chemtrec: 800-424-9300	
Classification of the substance or mixture	Hazard(s) identification	
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Use explosion-proof electrical/ventilating/lighting/equipment.	
Use only non-sparking tools.	
Take precautionary measures against static discharge.	
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 exposed or concerned: Get medical advice/attention.	
In case of fire: Use CO2, powder or water spray to extinguish.	
Store in a well-ventilated place. Keep cool.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international regulation	<i>s</i> .
Classification system:	
NFPA ratings (scale 0 - 4)	
Health = 0	
Fire = 2	
0 0 Reactivity = 0	
HMIS-ratings (scale 0 - 4)	
HEALTH *0 $Health = *0$	
FIRE 2 $Fire = 2$	
REACTIVITY Reactivity = 0	
Other hazards	
Results of PBT and vPvB assessment	
PBT: Not applicable.	
vPvB: Not applicable.	

· Chemical characterization: Mixtures

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

· Dangerous compo	onents:	
CAS: 108-94-1	Cyclohexanone 99.8%	9.49%
CAS: 10043-35-3	boric acid	1.349%
• Table of Nonhaza	rdous Ingredients	
CAS: 7732-18-5	Water	88.768%
CAS: 1310-73-2	Sodium Hydroxide	0.378%
CAS: 62625-22-3	Zincon Monosodium Salt	0.016%

4 First-aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately rinse with water.
- · 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.

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Safety Data Sheet acc. to OSHA HCS

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· 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: No special measures required.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. · Environmental precautions: Dilute with plenty of water. 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). Dispose contaminated material as waste according to section 13. 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

	Criteria for Chemicals	
· PAC-1:	-	
CAS: 108-94-1	Cyclohexanone 99.8%	60 ppm
CAS: 10043-35-3	boric acid	6 mg/m ³
CAS: 1310-73-2	Sodium Hydroxide	0.5 mg/m ³
· PAC-2:		
CAS: 108-94-1	Cyclohexanone 99.8%	830 ppm
CAS: 10043-35-3	boric acid	23 mg/m ³
CAS: 1310-73-2	Sodium Hydroxide	5 mg/m ³
· PAC-3:		
CAS: 108-94-1	Cyclohexanone 99.8%	5000* ppm
CAS: 10043-35-3	boric acid	830 mg/m³
CAS: 1310-73-2	Sodium Hydroxide	50 mg/m³

7 Handling and storage

- · Handling:
- Precautions for safe handling Open and handle receptacle with care.
- · Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

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Protect against electrostatic charges. Keep respiratory protective device available.

· 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.

· Control parameters

· Com	ponents with limit values that require monitoring at the workplace:	
CAS	: 108-94-1 Cyclohexanone 99.8%	
PEL	Long-term value: 200 mg/m ³ , 50 ppm	
REL	Long-term value: 100 mg/m ³ , 25 ppm	
	Skin	
TLV	Short-term value: 50 ppm	
	Long-term value: 20 ppm	
	Skin, BEI, A3	
CAS	: 10043-35-3 boric acid	
TLV	Short-term value: 6* mg/m ³	
	Long-term value: 2* mg/m ³	
	*as inhalable fraction, A4	
· Ingr	edients with biological limit values:	
CAS	: 108-94-1 Cyclohexanone 99.8%	
BEI	80 mg/L	
	LD50 Intraperitoneal: urine	
	Time: end of shift at end of workweek	
	LD50: 1.2-Cyclohexanediol (with hydrolysis, nonspecific, nonquantitative)	
	8 mg/L	
	LD50 Intraperitoneal: urine	
	Time: end of shift	
	LD50: Cyclohexanol (with hydrolysis, nonspecific, nonquantitative)	
·Add	tional information: The lists that were valid during the creation were used as basis.	
·Exp	osure controls	
	onal protective equipment:	
	eral protective and hygienic measures:	
Кеер	p away from foodstuffs, beverages and feed.	
Imm	ediately remove all soiled and contaminated clothing.	
	h hands before breaks and at the end of work.	
	e protective clothing separately.	
· Brea	thing equipment: Not required.	
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· Protection of hands:



Protective gloves

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· 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

· Body protection: Protective work clothing

9	Physical	and	chemic	al prop	erties
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 Information on basic physical and General Information 	chemicul properties
· Appearance:	
Form:	Liquid
Color:	Red-brown
· Odor:	Organic
• Odor threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100 °C (212 °F)
· Flash point:	43 °C (109.4 °F)
· Flammability (solid, gaseous):	Flammable.
· Auto igniting:	420 °C (788 °F)
• Decomposition temperature:	Not determined.
· Ignition temperature:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits:	
Lower:	Not determined.

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Upper:	Not determined.	
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
Density at 20 °C (68 °F):	1.0011 g/cm ³ (8.35418 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	er): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	9.5 %	
Water:	88.8 %	
VOC content:	9.49 %	
	95.0 g/l / 0.79 lb/gal	
Solids content:	1.7 %	
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:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral	LD50	5,269 mg/kg
Dermal	LD50	3,161 mg/kg
Inhalative		

- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.

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· Additional toxicological information:

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

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

CAS: 108-94-1 Cyclohexanone 99.8%

 \cdot 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.

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

· UN-Number		
· DOT, IMDG, IATA	UN1993	
· UN proper shipping name		
$\cdot DOT$	Flammable liquids, n.o.s. (Cyclohexanone)	
· IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (Cyclohexanone)	

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· Transport hazard class(es)	
·DOT	
3	
· Class · Label	3 Flammable liquids 3
	5
· IMDG, IATA	
3	
· Class	3 Flammable liquids
· Label	3
· Packing group	
· DOT, IMDG, IATA	III
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Warning: Flammable liquids
• Hazard identification number (Kemler code):	
· EMS Number: · Stowage Category	F-E, <u>S-E</u> A
	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
	On cargo aircraji oniy: 220 L
·IMDG	
· Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1
· Excepted quantutes (EQ)	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. (CYCLOHEXANONE
	3, III

15 Regulatory information

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

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· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

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Cyclohexanone 99.8% A boric acid Sodium Hydroxide A	ACTIVE ACTIVE ACTIVE ACTIVE
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Chemicals known to cause developmental toxicity: None of the ingredients is listed. Carcinogenic categories EPA (Environmental Protection Agency) CAS: 10043-35-3 boric acid TLV (Threshold Limit Value) CAS: 108-94-1 Cyclohexanone 99.8%	
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TLV (Threshold Limit Value) CAS: 108-94-1 Cyclohexanone 99.8%	loral
CAS: 108-94-1 Cyclohexanone 99.8%	I (oral)
(A) (D) (A) (A) (A) (A) (A) (A)	A
NIOSH-Ca (National Institute for Occupational Safety and Health)	A4

• *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: boric acid

• *Hazard statements Flammable liquid and vapor.*

May damage fertility or the unborn child.

· Precautionary statements

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

(Contd. on page 10)

Printing date 06/24/2024

Reviewed on 06/24/2024

Trade name: Reagent #2 For Zinc Analysis

(Contd. of page 9)

Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
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 exposed or concerned: Get medical advice/attention.
In case of fire: Use CO2, powder or water spray to extinguish.
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 0.1, 06/24/2024: Reviewed SDS for accuracy. MH/STN 06/24/2024 / 1.1 · 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 BEI: Biological Exposure Limit Flammable Liquids 3: Flammable liquids – Category 3 Toxic to Reproduction 1B: Reproductive toxicity - Category 1B • * Data compared to the previous version altered.