Printing date 09/17/2015

Reviewed on 09/17/2015

1 Identification

- · Product identifier
- Trade name: Isatin/Chloroform/Benzene Prepared to ASTM D1865-86
- Article number: AM135S4
- 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: Product safety department Technical Coordinator Sherman Nelson sherman@aquasolutions.org
 Emergency telephone number:
- *Chemtrec:* 800-424-9300 *Canutec:* 613-996-6666

Classification of the substance of mixture \widehat{V} $GHS02$ FlameFlam. Liq. 2H225Highly flammable liquid and vapor. \widehat{V} $GHS06$ Skull and crossbonesAcute Tox. 3H311Toxic in contact with skin. \widehat{V} $GHS08$ Health hazardMuta. 1BH340Muta. 1BH340Muta. 1BH340Muta. 1BH340Muta 2Cause genetic defects.Carc. 1AH350May cause cancer.Repr. 2H361Suspected of damaging fertility or the unborn child.STOT RE 1H372Causes damage to organs through prolonged or repeated exposure.Asp. Tox. 1H304May be fatal if swallowed and enters airways. \widehat{V} $GHS07$ Acute Tox. 4H302Harmful if swallowed.Skin Irrit. 2H315Causes skin irritation.Eye Irrit. 2AH319Causes serious eye irritation.	Classificatio	n of the substance or mixture
 Flam. Liq. 2 H225 Highly flammable liquid and vapor. GHS06 Skull and crossbones Acute Tox. 3 H311 Toxic in contact with skin. GHS08 Health hazard Muta. 1B H340 May cause genetic defects. Carc. 1A H350 May cause genetic defects. Carc. 1A H350 May cause cancer. Repr. 2 H361 Suspected of damaging fertility or the unborn child. STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure. Asp. Tox. 1 H304 May be fatal if swallowed and enters airways. Acute Tox. 4 H302 Harmful if swallowed. Skin Irrit. 2 H315 Causes skin irritation. 	Classificano	n of the substance of mixture
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GHS06 Skull and crossbonesAcute Tox. 3 H311 Toxic in contact with skin.Image: Colspan="2">Optimized Contact Contact With skin.Image: Colspan="2">Optimized Contact Cont	Flam Lia ?	H225 Highly flammable liquid and vapor
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Skin Irrit. 2 H315 Causes skin irritation.	G	HS07
Skin Irrit. 2 H315 Causes skin irritation.	A suite Ton A	11202 Harmfel if guallound
Lyc 1110. 21x 11517 Causes serious eye intaaton.		
Label elements		



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(Contd. of page 1) · Hazard pictograms GHS02 GHS06 GHS07 GHS08 · Signal word Danger · Hazard-determining components of labeling: Chloroform benzene Isatin. 2.3-Indolinedione · Hazard statements Highly flammable liquid and vapor. Harmful if swallowed. Toxic in contact with skin. Causes skin irritation. Causes serious eye irritation. May cause genetic defects. May cause cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways. · Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. No smoking. *Use explosion-proof electrical/ventilating/lighting/equipment.* Do not breathe dust/fume/gas/mist/vapors/spray. Wear protective gloves / eye protection / face protection. Wear protective gloves / protective clothing. Ground/bond container and receiving equipment. Keep container tightly closed. Use only non-sparking tools. Take precautionary measures against static discharge. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment (see on this label). IF exposed or concerned: Get medical advice/attention. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Get medical advice/attention if you feel unwell. Rinse mouth. Do NOT induce vomiting. In case of fire: Use for extinction: CO2, powder or water spray. Take off immediately all contaminated clothing and wash it before reuse. Store locked up. Store in a well-ventilated place. Keep cool. Dispose of contents/container in accordance with local/regional/national/international regulations.

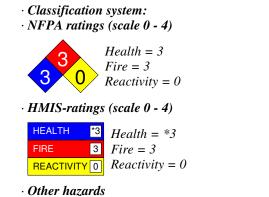
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(Contd. of page 2)



· 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: 67-66-3 Chloroform	87.119%	
CAS: 71-43-2 benzene	12.734%	
· Table of Nonhazardous Ingredients		
CAS: 91-56-5 Isatin, 2,3-Indolinedione	0.147%	

4 First-aid measures

· Description of first aid measures

• General information:

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. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. 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. If symptoms persist, 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, sand, extinguishing powder. Do not use water.

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- · 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: Mouth respiratory protective device.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
 Environmental precautions: Do not allow product to reach sewage system or any water course.
- Inform respective authorities in case of seepage into water course or sewage system.
- 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 item 13. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents
- · 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.

7 Handling and storage

· Handling:

- Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. 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: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Store in cool, dry conditions in well sealed receptacles.
- 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 item 7.

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(Contd. of page 4) · Control parameters · Components with limit values that require monitoring at the workplace: CAS: 67-66-3 Chloroform PEL Ceiling limit value: 240 mg/m³, 50 ppm *REL* Short-term value: 9.78* mg/m³, 2* ppm *60-min; See Pocket Guide App. A TLV Long-term value: 49 mg/m³, 10 ppm CAS: 71-43-2 benzene PEL Short-term value: 15* mg/m³, 5* ppm Long-term value: 3* mg/m³, 1* ppm *table Z-2 for exclusions in 29CFR1910.1028(d) REL Short-term value: 1 ppm Long-term value: 0.1 ppm See Pocket Guide App. A TLV Short-term value: 8 mg/m³, 2.5 ppm Long-term value: 1.6 mg/m³, 0.5 ppm Skin; BEI · Ingredients with biological limit values: CAS: 71-43-2 benzene BEI 25 µg/g creatinine LD50 Intraperitoneal: urine Time: end of shift Parameter LD50: S-Phenylmercapturic acid (background 500 µg/g creatinine LD50 Intraperitoneal: urine Time: end of shift LD50: t,t-Muconic acid (background) • Additional information: The lists that were valid during the creation were used as basis. · Exposure controls · Personal protective equipment: · General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· 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.

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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

9 Physical and chemical properties

General Information	
· Appearance:	T · · · 1
Form:	Liquid
Color:	Orange
· Odor:	Chloroform-benzene
· Odour threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	61 °C (142 °F)
· Flash point:	-11 °C (12 °F)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	555 °C (1031 °F)
Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
• Explosion limits:	
Lower:	1.2 Vol %
Upper:	8.0 Vol %
· Vapor pressure at 20 °C (68 °F):	210 hPa (158 mm Hg)
· Density at 20 °C (68 °F):	1.35896 g/cm ³ (11.341 lbs/gal)
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.

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		(Contd. of page
Partition coefficient (n-octan	ol/water): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	12.7 %	
VOC content:	12.7 %	
	173.1 g/l / 1.44 lb/gl	
Solids content:	0.1 %	
• 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:		
Oral	LD50	
		561 mg/kg
Dermal	LD50	377 mg/kg (mouse)
CAS: 67-66-3 Ch	lloroform	
Oral	LD50	500 mg/kg (ATE)
Dermal	LD50	>20000 mg/kg (rabbit)
Inhalative	LC50/4 h	47702 mg/l (rat)
Irritation of skin	Skin Corrosion/Irritation	mild (rabbit)
Irritation of eyes	Eye damage/eye irritation	irritating (rabbit)
CAS: 71-43-2 benzene		
Oral	LD50	4894 mg/kg (rat)
Dermal	LD50	48 mg/kg (mouse)
Inhalative	LC50/4 h	9980 mg/l (mouse)
. Primary irritant	- CC 4 -	1

· Primary irritant effect:

• on the skin: Irritant to skin and mucous membranes.

• on the eye: Irritating effect.

• Sensitization: No sensitizing effects known.

· Additional toxicological information:

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

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		(Contd. of page 7)		
Harmful				
Irritant				
Carcinogenic.				
The product can cause	inheritable damage.			
· Carcinogenic categori	es			
· IARC (International A	gency for Research on Cancer)			
CAS: 67-66-3 Chlorof	orm	2 <i>B</i>		
CAS: 71-43-2 benzene		1		
· NTP (National Toxico	· NTP (National Toxicology Program)			
CAS: 67-66-3 Chlorof	orm	R		
CAS: 71-43-2 benzene		K		
· OSHA-Ca (Occupational Safety & Health Administration)				
CAS: 71-43-2 benzene				

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 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.

- · 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	UN1993	
· UN proper shipping name		
$\cdot DOT$	Flammable liquids, n.o.s. (Benzene, Chloroform)	

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MDC IATA	(Contd. of page
IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (BENZENE, CHLOROFORM)
Transport hazard class(es)	
DOT	
RAMMAE LOUD	
Class	3 Flammable liquids
Label	3
IMDG, IATA	
Class	3 Flammable liquids
Label	3
Packing group DOT, IMDG, IATA	II
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Flammable liquids
Danger code (Kemler):	336
EMS Number:	F- E , S - E
Segregation groups	Liquid halogenated hydrocarbons
Transport in bulk according to Annex I MARPOL73/78 and the IBC Code	I of Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 1 L
	On cargo aircraft only: 60 L
IMDG	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1993 FLAMMABLE LIQUIDS, N.O.S. (BENZENE CHLOROFORM), 3, II

15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture

· Sara

• Section 355 (extremely hazardous substances):

CAS: 67-66-3 Chloroform

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		(Contd. of pag
	pecific toxic chemical listings):	
CAS: 67-66-3		
CAS: 71-43-2	benzene	
TSCA (Toxic S	Substances Control Act):	
All ingredients	s are listed.	
Proposition 65	5	
Chemicals kno	own to cause cancer:	
CAS: 67-66-3	Chloroform	
CAS: 71-43-2	benzene	
Chemicals kno	own to cause reproductive toxicity for females:	
None of the ing	gredients is listed.	
Chemicals kno	own to cause reproductive toxicity for males:	
CAS: 71-43-2	benzene	
Chemicals kno	own to cause developmental toxicity:	
CAS: 67-66-3	Chloroform	
CAS: 71-43-2	benzene	
Carcinogenic	categories	
EPA (Environ	mental Protection Agency)	
CAS: 67-66-3	Chloroform	B2, L, N
CAS: 71-43-2	benzene	A, K/L
TLV (Thresho	ld Limit Value established by ACGIH)	
CAS: 67-66-3	Chloroform	A
CAS: 71-43-2	benzene	A
NIOSH-Ca (N	Vational Institute for Occupational Safety and Health)	ł
CAS: 67-66-3	Chloroform	

CAS: 71-43-2 benzene

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



· Signal word Danger

Causes serious eye irritation.

Hazard-determining components of labeling: Chloroform benzene Isatin, 2,3-Indolinedione
Hazard statements Highly flammable liquid and vapor. Harmful if swallowed. Toxic in contact with skin. Causes skin irritation.

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May cause genetic defects.	
May cause cancer.	
Suspected of damaging fertility or the unborn child.	
Causes damage to organs through prolonged or repeated exposure.	
May be fatal if swallowed and enters airways.	
· Precautionary statements	
Keep away from heat/sparks/open flames/hot surfaces. No smoking.	
Use explosion-proof electrical/ventilating/lighting/equipment.	
Do not breathe dust/fume/gas/mist/vapors/spray.	
Wear protective gloves / eye protection / face protection.	
Wear protective gloves / protective clothing.	
Ground/bond container and receiving equipment.	
Keep container tightly closed.	
Use only non-sparking tools.	
Take precautionary measures against static discharge.	
Wash thoroughly after handling.	
Do not eat, drink or smoke when using this product.	
Obtain special instructions before use.	
Do not handle until all safety precautions have been read and understood.	
IF SWALLOWED: Immediately call a POISON CENTER/ doctor.	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/s	hower.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if p	resent and easy to do.
Continue rinsing.	
Specific treatment (see on this label).	
IF exposed or concerned: Get medical advice/attention.	
If skin irritation occurs: Get medical advice/attention.	
If eye irritation persists: Get medical advice/attention.	
Get medical advice/attention if you feel unwell.	
Rinse mouth.	
Do NOT induce vomiting.	
In case of fire: Use for extinction: CO2, powder or water spray.	
Take off immediately all contaminated clothing and wash it before reuse.	
Store locked up.	
Store in a well-ventilated place. Keep cool.	
Dispose of contents/container in accordance with local/regional/national/international regional	ulations.
· National regulations:	

· National regulations:

· Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

· 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.

• Date of preparation / last revision Revision 0.0, 09-17-2015, creation date for SDS. STN 09/17/2015 / -

• Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

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	(Contd. of page 11)
IMDG: International Maritime Code for Dangerous Goods	
DOT: US Department of Transportation	
IATA: International Air Transport Association	
ACGIH: American Conference of Governmental Industrial Hygienists	
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	
Flam. Liq. 2: Flammable liquids, Hazard Category 2	
Acute Tox. 4: Acute toxicity, Hazard Category 4	
Acute Tox. 3: Acute toxicity, Hazard Category 3	
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2	
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A	
Muta. 1B: Germ cell mutagenicity, Hazard Category 1B	
Carc. 1A: Carcinogenicity, Hazard Category 1A	
Repr. 2: Reproductive toxicity, Hazard Category 2	
STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1	
Asp. Tox. 1: Aspiration hazard, Hazard Category 1	
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