Printing date 01/26/2021

Reviewed on 01/26/2021

| Product identifier
Trade name: <u>IPA/Heptane/Tolucne</u>
<u>Subution v/v</u>
Article number: THE497
Details of the suppirer of the safety data sheet
<u>Manufacturer/Suppiter</u> ;
Aqua Solutions, Inc.
6913 Highway 225
DEER PARK, TX 77336
USA
800-256-2586
Information department:
Technical Coordinator
Sterman Nelson sherman@aquasolutions.org
Emergency Elephone number:
Chemtree: 800-424-9300
Canutec: 613-996-6666
Hazard(s) identification
Classification of the substance or mixture
V
O
GHS02 Flame
Flam. Liq. 2 H225 Highly flammable liquid and vapor.
V
O
GHS02 Flame
Flam. Liq. 2 H225 Highly flammable liquid and vapor.
V
O
GHS03 Flame damage to organs through prolonged or repeated exposure.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
V
O
GHS07
Skin Irrit. 2 H315 Causes skin irritation.
Eve Trin: A H319 Causes serious eye irritation.
Stor TS 2 H336 May cause drowsiness or diziness.
Tabel elements
GHS04 GHS07
Skin Irrit. 2 H315 Causes skin irritation.
Eve Trin: A H319 Causes drowsines or diziness.
Tabel elements
GHS04 GHS07
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| Trade name: IP All Heptane/Totuene
Solution wis Article number: THE497 Details of the supplier of the safety data sheet
Manufacturer/Supplier:
Ague Solutions, Inc. Image: Solutions, Inc. Ague Solutions, Inc. Solutions, Inc. G013 Highway 225 DEER PARK, TX 7736 DEER PARK, TX 77376 Solutions, Inc. VSA 800-256-2586 Information department: Technical Coordinator Sherman Netson sherman@equasolutions.org Emergency telephone number: Chantrie: Solu-249-300 Camtle:: 61502 Flame Flam. Liq. 2 H225 Highly flammable liquid and vapor. Vor GHS08 Health hazard Rep. 2 H361 Suspected of damaging fertility or the unborn child. STOT RE 2 H315 Causes skin irritation. Stor RE 2 H315 Causes skin irritation. Eye Irrit. 2 H316 May be fatal if swallowed and enters airways. Stor TK 2 H316 May cause drowsiness or dizziness. Label elements The jong Causes serious seve irritation. Stor TK 2 H316 May cause drowsiness or dizziness. Label elements The jong Causes are on sinclose serious seve irritation. <td< th=""><th></th><th></th></td<>
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| Solution v/v Article number: THE497 Details of the supplier of the safety data sheet Aqua Solutions, Inc. Again Solution view Again Solution view Bitle Highway 225 DEER PARK, TX 77536 USA 800-256-2586 Information department: Technical Coordinator Schemers: Bood Particle Product and Particle ParticleP
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| Article number: THE497 Details of the supplier of the safety data sheet Manufacturer/Supplier: Aqua Solutions, Inc. 6913 Highway 225 DEFER PARK, TX 77536 USA 800-256-2586 Information department: Technical Coordinator Sherman Nelson sherman@aquasolutions.org Emergency telephone number: Chamtree: 800-424-9300 Canutec: 613-996-6666 Hazard(s) identification Classification of the substance or mixture $\widetilde{\psi}$ GHS02 Flame Flam. Liq. 2 H251 Highly flammable liquid and vapor. $\widetilde{\psi}$ GHS08 Health hazard Repr. 2 H361 Suspected of damaging fertility or the unborn child. STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure. Asp. Tox. 1 H304 May be fatal if swallowed and enters airways. $\widetilde{\psi}$ GHS07 Skin Irrit. 2 H315 Causes skin irritation. STOT SE 3 H36 May cause drowsiness or dizziness. Label elements The product is classified and labeled according to the Globally Harmonized System (GHS) GHS102 GHS07 GHS02
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| 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 sherman@aquasolutions.org
Emergency telephone number:
Chemtree: 800-424-9300
Canutec: 613-996-6666
Intervet: 800-424-930
Canutec: 613-996-6666
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| Manufacturer/Supplier: Agua Solutions. Inc. 6913 Highway 225 DEER PARK, TX 77336 USA 800-256-2586 Information department: Technical Coordinator Sterman Nelson sherman@aquasolutions.org Emergency telephone number: Chemtre: Chemtre: Wood -242-9300 Catatec: 601-242-9300 Catatec: Otto -240-9300 Catatec: Outlook - 1000 Catate - 1000 Catate - 1000 Flam. Liq. 2 H315 Subsected of damaging fertility or the unborn
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| $\begin{array}{c} 6913 \ Highway 225 \\ DEER PARK, TX 77536 \\ USA \\ 800-356-3586 \\ \hline \\ Information department: \\ Technical Coordinator \\ Sherman Nelson sherman@aquasolutions.org \\ Emergency telephone number: \\ Chemtree: 800-424-9300 \\ Canutee: 613-996-6666 \\ \hline \\ \hline \\ \hline \\ Iazard(s) \ identification \\ \hline \\ Classification of the substance or mixture \\ \hline \\ $
 | Manufacturer/Supplier:
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| $ \begin{array}{c} 0.12 \ \text{In protect}, \text{TX}, 77536\\ USA\\ USA\\ S00-256-2586\\ \hline \textbf{Information department:}\\ Technical Coordinator\\ Sherman Nelson sherman@aquasolutions.orgEmergency telephone number:Chemtree: 800-424-9300Canutes: 613-996-6666\\ \hline \textbf{Hazard(s) identification}\\ \hline \textbf{Classification of the substance or mixture}\\ \hline \hline \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $
 | Aqua Solutions, Inc.
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| USA
800-256-2586
Information department:
Technical Coordinator
Sherman Nelson sherman@aquasolutions.org
Emergency telephone number:
Chemtrec: 800-424-9300
Canutec: 613-996-6666
Hazard(s) identification
Classification of the substance or mixture
\overbrace{vv} GHS02 Flame
Flam. Liq. 2 H225 Highly flammable liquid and vapor.
\overbrace{vv} GHS08 Health hazard
Repr. 2 H361 Suspected of damaging fertility or the unborn child.
STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
\overbrace{vv} GHS07
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H315 Causes skin irritation.
STOT SE 3 H336 May cause drowsiness or dizziness.
Label elements
Label elements The product is classified and labeled according to the Globally Harmonized System (GHS)
Hazard pictograms
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GHS07
Signal word Danger
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| 800-256-2586 Information department: Technical Coordinator Sherman Nelson sherman@aquasolutions.org Emergency telephone number: Chamter: Chamter: 613-996-6666 Hazard(s) identification Classification of the substance or mixture Wissing GHS02 Flame Flam. Liq. 2 H225 Highly flammable liquid and vapor. GHS08 Health hazard Repr. 2 H361 Suspected of damaging fertility or the unborn child. STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure. Asp. Tox. 1 H304 May be fatal if swallowed and enters airways. Wissin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes skin irritation. Eye Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2 H315 Causes domes or dizziness. Label elements Label elements The product is classified and labeled according to the Globally Harmonized System (GHS) Haspa Orgonaus GHS07 Signal word Danger
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| Technical Coordinator
Sherman Nelson sherman@aquasolutions.org
Emergency telephone number:
Chemtrec: 800-424-9300
Canutec: 613-996-6666
Hazard(s) identification
Classification of the substance or mixture
\overbrace{vv} GHS02 Flame
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STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
\overbrace{vv} GHS07
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2A H319 Causes serious eye irritation.
Eye Irrit. 2A H319 Causes serious eye irritation.
Eye Irrit. 2A H319 Causes serious eye irritation.
Eye Irrit. 2A H319 Cause drowsiness or dizziness.
Label elements
GHS04 GHS07
Skin Irrit. 2 In J35 May cause drowsiness or dizziness.
Label elements
GHS1abel telements The product is classified and labeled according to the Globally Harmonized System (GHS);
Hazard pictograms
Signal word Danger
 | 800-256-2586
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| Sherman Nelson sherman@aquasolutions.org
Emergency telephone number:
Chemtre:: 800-424-9300
Canutec: 613-996-6666
Hazard(s) identification
Classification of the substance or mixture

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Canutes: 613-996-6666 Hazard(s) identification Classification of the substance or mixture
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| Chemitree: 800-424-9300
Canutee: 613-996-6666
Hazard(s) identification
Classification of the substance or mixture
\overbrace{vv} GHS02 Flame
Flam. Liq. 2 H225 Highly flammable liquid and vapor.
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Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2A H319 Causes serious eye irritation.
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Label elements
GHS07
GHS07
Skin Irrit. 2 h35 Causes skin irritation.
Eye Irrit. 2A H319 Causes drowsiness or dizziness.
Label elements
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GHS02 GHS07
Signal word Danger
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| Canutec: 613-996-6666
Hazard(s) identification
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| Classification of the substance or mixture
GHS02 Flame
Flam. Liq. 2 H225 Highly flammable liquid and vapor.

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| GHS02 FlameFlam. Liq. 2 H225 Highly flammable liquid and vapor. $$ H361 Suspected of damaging fertility or the unborn child.STOT RE 2H361 Suspected of damaging fertility or the unborn child.STOT RE 2H373 May cause damage to organs through prolonged or repeated exposure.Asp. Tox. 1H304 May be fatal if swallowed and enters airways. $$ GHS07Skin Irrit. 2H315 Causes skin irritation.Eye Irrit. 2AH319 Causes serious eye irritation.StoT SE 3H366 May cause drowsiness or dizziness.Label elementsThe product is classified and labeled according to the Globally Harmonized System (GHS)H360 $$ GHS07GHS08Signal word Danger
 | Hazard(s) identification
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| Flam. Liq. 2 H225 Highly flammable liquid and vapor. Flam. Liq. 2 H225 Highly flammable liquid and vapor. Flam. Liq. 2 H361 Suspected of damaging fertility or the unborn child. Stor RE 2 H361 Suspected of damaging fertility or the unborn child. Stor RE 2 H373 May cause damage to organs through prolonged or repeated exposure. Asp. Tox. 1 H304 May be fatal if swallowed and enters airways. For Stain Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation. Stor SE 3 H336 May cause drowsiness or dizziness. Label elements The product is classified and labeled according to the Globally Harmonized System (GHS), Hazard pictograms Figual word Danger GHS07
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| GHS08 Health hazardRepr. 2H361 Suspected of damaging fertility or the unborn child.STOT RE 2H373 May cause damage to organs through prolonged or repeated exposure.Asp. Tox. 1H304 May be fatal if swallowed and enters airways.Quite Colspan="2">Quite Colspan="2">GHS07Skin Irrit. 2H315 Causes skin irritation.Eye Irrit. 2AH319 Causes serious eye irritation.STOT SE 3H336 May cause drowsiness or dizziness.Label elementsGHS07Colspan="2">Colspan="2"Colspan="2">Colspan="2"Colspan="2">Colspan="2"Colspan="2" <tr row<="" th=""><th>GHS02 Flame</th><th></th></tr> <tr><th>GHS08 Health hazardRepr. 2H361 Suspected of damaging fertility or the unborn child.STOT RE 2H373 May cause damage to organs through prolonged or repeated exposure.Asp. Tox. 1H304 May be fatal if swallowed and enters airways.Quite Colspan="2">Quite Colspan="2">GHS07Skin Irrit. 2H315 Causes skin irritation.Eye Irrit. 2AH319 Causes serious eye irritation.STOT SE 3H336 May cause drowsiness or dizziness.Label elementsGHS07Colspan="2">Colspan="2"Colspan="2">Colspan="2"Colspan="2">Colspan="2"Colspan="2"<tr row<="" th=""><th></th><th></th></tr><tr><td>Repr. 2H361Suspected of damaging fertility or the unborn child.STOT RE 2H373May cause damage to organs through prolonged or repeated exposure.Asp. Tox. 1H304May be fatal if swallowed and enters airways.$\overbrace{\bigcirc}$GHS07Skin Irrit. 2H315Causes skin irritation.Eye Irrit. 2AH319Causes serious eye irritation.STOT SE 3H336May cause drowsiness or dizziness.Image: Label elementsGHS07GHS02$\overbrace{\bigcirc}$$\overbrace{\bigcirc}$GHS07GHS08Signal word Danger</td><td>Flam. Liq. 2 H225 Highly flammable liquid and vapor.</td><td></td></tr><tr><td>Repr. 2H361Suspected of damaging fertility or the unborn child.STOT RE 2H373May cause damage to organs through prolonged or repeated exposure.Asp. Tox. 1H304May be fatal if swallowed and enters airways.$\overbrace{\bigcirc}$GHS07Skin Irrit. 2H315Causes skin irritation.Eye Irrit. 2AH319Causes serious eye irritation.STOT SE 3H336May cause drowsiness or dizziness.Image: Label elementsGHS07GHS02$\overbrace{\bigcirc}$$\overbrace{\bigcirc}$GHS07GHS08Signal word Danger</td><td>A</td><td></td></tr><tr><td>STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
 GHS07
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2A H319 Causes serious eye irritation.
STOT SE 3 H336 May cause drowsiness or dizziness.
Label elements
GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS)
Hazard pictograms
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GHS02 GHS07 GHS08
Signal word Danger</td><td>GHS08 Health hazard</td><td></td></tr><tr><th>STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.
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Hazard pictograms
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Hazard pictograms
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Signal word Danger</td><td>Repr. 2 H361 Suspected of damaging fertility or the unborn</td><td>child.</td></tr><tr><td>Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2A H319 Causes serious eye irritation.
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Hazard pictograms
$\widetilde{O}_{GHS02} = \widetilde{O}_{GHS07} = \widetilde{O}_{GHS08}$
Signal word Danger</td><td>STOT RE 2 H373 May cause damage to organs through prolong</td><td>ged or repeated exposure.</td></tr><tr><td>Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation. STOT SE 3 H336 May cause drowsiness or dizziness. Label elements GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS) Hazard pictograms GHS02 GHS02 GHS07 GHS08 GHS08 Signal word Danger</td><td>Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.</td><td></td></tr><tr><td>Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation. STOT SE 3 H336 May cause drowsiness or dizziness. Label elements GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS) Hazard pictograms GHS02 GHS02 GHS07 GHS08 GHS08 Signal word Danger</td><td>$\mathbf{\wedge}$</td><td></td></tr><tr><td>Eye Irrit. 2A H319 Causes serious eye irritation.
STOT SE 3 H336 May cause drowsiness or dizziness.
Label elements
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Hazard pictograms
GHS02 GHS07 GHS08
Signal word Danger</td><td>GHS07</td><td></td></tr><tr><td>Eye Irrit. 2A H319 Causes serious eye irritation.
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Hazard pictograms
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Signal word Danger</td><td>\mathbf{V}</td><td></td></tr><tr><td>STOT SE 3 H336 May cause drowsiness or dizziness.
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GHS02 GHS07 GHS08
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 | Flam. Liq. 2 H225 Highly flammable liquid and vapor.
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| Repr. 2H361Suspected of damaging fertility or the unborn child.STOT RE 2H373May cause damage to organs through prolonged or repeated exposure.Asp. Tox. 1H304May be fatal if swallowed and enters airways. $\overbrace{\bigcirc}$ GHS07Skin Irrit. 2H315Causes skin irritation.Eye Irrit. 2AH319Causes serious eye irritation.STOT SE 3H336May cause drowsiness or dizziness.Image: Label elementsGHS07GHS02 $\overbrace{\bigcirc}$ $\overbrace{\bigcirc}$ GHS07GHS08Signal word Danger
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| STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
GHS07
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2A H319 Causes serious eye irritation.
STOT SE 3 H336 May cause drowsiness or dizziness.
Label elements
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| STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
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Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2A H319 Causes serious eye irritation.
STOT SE 3 H336 May cause drowsiness or dizziness.
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Eye Irrit. 2A H319 Causes serious eye irritation.
STOT SE 3 H336 May cause drowsiness or dizziness.
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STOT SE 3 H336 May cause drowsiness or dizziness.
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 | ged or repeated exposure. |
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Printing date 01/26/2021

Reviewed on 01/26/2021

Trade name: IPA/Heptane/Toluene Solution v/v

	(Contd. of page 1)
Hazard-determining components of labeling:	
Toluene	
n-Heptane	
Isopropanol	
Hazard statements	
Highly flammable liquid and vapor.	
Causes skin irritation.	
Causes serious eye irritation.	
Suspected of damaging fertility or the unborn child.	
May cause drowsiness or dizziness.	
May cause damage to organs through prolonged or repeated exposure.	
May be fatal if swallowed and enters airways.	
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.	
Ground/bond container and receiving equipment.	
Use explosion-proof electrical/ventilating/lighting/equipment.	
Use only non-sparking tools.	
Take precautionary measures against static discharge.	
Do not breathe dust/fume/gas/mist/vapors/spray.	
Wash thoroughly after handling.	
Use only outdoors or in a well-ventilated area.	
Wear protective gloves/protective clothing/eye protection/face protection.	
If swallowed: Immediately call a poison center/doctor.	
Specific treatment (see on this label).	
Do NOT induce vomiting.	
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 a	nd easy to do
Continue rinsing.	na easy io ao.
IF exposed or concerned: Get medical advice/attention.	
Call a poison center/doctor if you feel unwell.	
Get medical advice/attention if you feel unwell.	
Take off contaminated clothing and wash it before reuse.	
If skin irritation occurs: Get medical advice/attention.	
If eye irritation persists: Get medical advice/attention.	
In case of fire: Use for extinction: CO2, powder or water spray.	
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)	
NTTA Talings (scale 0 - 4)	
Health = 2	
Fire = 3	
2×0 Reactivity = 0	
HMIS-ratings (scale 0 - 4)	
HEALTH 2 $Health = 2$	
FIRE 3 Fire = 3	
REACTIVITY Reactivity = 0	
	(Contd. on page 3)
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Printing date 01/26/2021

Reviewed on 01/26/2021

Trade name: IPA/Heptane/Toluene Solution v/v

(Contd. of page 2)

- · 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:

0	•	
CAS: 108-88-3	Toluene	37.173%
CAS: 67-63-0	Isopropanol	33.664%
CAS: 142-82-5	n-Heptane	29.161%

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: 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: If symptoms persist consult 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 During heating or in case of fire poisonous gases are produced.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.
- Wear protective equipment. Keep unprotected persons away.
- *Environmental precautions: Dilute with plenty of water.*

(Contd. on page 4)

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Printing date 01/26/2021

Reviewed on 01/26/2021

Trade name: IPA/Heptane/Toluene Solution v/v

		(Cont	d. of page 3)
	enter sewers/ surface or ground water.		
	naterial for containment and cleaning up:		
	uid-binding material (sand, diatomite, acid binders, universal binders, sawdust).		
Dispose contan	ninated material as waste according to item 13.		
Ensure adequa			
· Reference to of			
	or information on safe handling.		
	or information on personal protection equipment.		
	for disposal information.		
· Protective Action	on Criteria for Chemicals		
· PAC-1:			
CAS: 108-88-3	Toluene		67 ppm
CAS: 67-63-0	Isopropanol		400 ppm
CAS: 142-82-5	n-Heptane		500 ppm
· PAC-2:			
CAS: 108-88-3	Toluene	56	0 ppm
CAS: 67-63-0	Isopropanol	20	00* ppm
CAS: 142-82-5	n-Heptane	83	0 ppm
· PAC-3:			
CAS: 108-88-3	Toluene	3700	* ppm
CAS: 67-63-0	Isopropanol	1200	0** ppm
CAS: 142-82-5	n-Heptane	5000	* ppm

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.
- \cdot Further information about storage conditions:
- Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles.
- Store in cool, ary conditions in well sealed receptacies. • 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.

(Contd. on page 5)

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Printing date 01/26/2021

Reviewed on 01/26/2021

Trade name: IPA/Heptane/Toluene Solution v/v

Control parameters Components with limit values that require monitoring at the workplace: CAS: 108-88-3 Toluene PEL Long-term value: 200 ppm Ceiling limit value: 300; 500* ppm *10-min peak pre 8-hr shift REL Short-term value: 375 mg/m², 150 ppm Long-term value: 20 ppm PET PET Long-term value: 300 ppm PET Long-term value: 20 ppm PET Long-term value: 980 mg/m², 400 ppm CAS: 67-63-0 Isopropanol PET PET Long-term value: 980 mg/m², 400 ppm Long-term value: 980 mg/m², 400 ppm Long-term value: 980 mg/m², 400 ppm Long-term value: 980 mg/m², 400 ppm Long-term value: 980 mg/m², 400 ppm Long-term value: 980 mg/m², 400 ppm Long-term value: 980 mg/m², 400 ppm Long-term value: 980 mg/m², 500 ppm Em BET Long-term value: 350 mg/m², 500 ppm REL Long-term value: 350 mg/m², 500 ppm VS hort-term value: 350 mg/m², 500 ppm Long-term value: 1000 mg/m², 500 ppm Long-term value: 1000 mg/m², 500 ppm Long-term value: 1000 mg/m², 500 ppm Long-term value: 200 mg/m², 500 ppm Long-term value: 1000 mg/m², 500 ppm Long-term value	Control a gram store	(Contd. of pa
CAS: 108-88-3 Toluene PEL Long-term value: 200 ppm Ceiling timi value: 300; 500° spm *10-min peak per 8-hr shift REL Short-term value: 305 mg/m², 150 ppm Long-term value: 305 mg/m², 100 ppm BEI, NIC-OTO CAS: 67-63-0 Isopropanol PEL Long-term value: 980 mg/m², 400 ppm Long-term value: 980 mg/m², 500 ppm Long-term value: 2000 mg/m², 500 ppm REL Long-term value: 2000 mg/m², 500 ppm Ceiling limit value: 1800° mg/m², 400 ppm Long-term value: 350 mg/m², 500 ppm Long-term value: 1640 mg/m², 500 ppm Long-term value: 1640 mg/m², 400 ppm Three Jboo Intraperitoneal: blood Time: prior to last shift of workweek	-	
 PEL Long-term value: 200 ppm Ceiling limit value: 300; 500° ppm *10-min peak per 8-k r-shift REL Short-term value: 355 mg/m², 100 ppm Long-term value: 20 ppm BEI, NIC-OTO CAS: 67-63-0 Isopropanol PEL Long-term value: 980 mg/m², 400 ppm Long-term value: 980 mg/m², 500 ppm Long-term value: 350 mg/m², 500 ppm REL Long-term value: 2000 mg/m², 500 ppm Ceiling limit value: 1800° mg/m², 40° ppm Long-term value: 2050 mg/m², 500 ppm REL Long-term value: 2050 mg/m², 500 ppm Ceiling limit value: 1800° mg/m², 400° ppm Long-term value: 2050 mg/m², 500 ppm REL Long-term value: 2050 mg/m², 500 ppm Ceiling limit value: 1600 mg/m², 400° ppm Long-term value: 2050 mg/m², 500 ppm Cong-term value: 2050 mg/m², 500 ppm Long-term value: 2050 mg/m², 500 ppm Ceiling limit value: 1600 mg/m², 400° ppm Long-term value: 2050 mg/m², 500 ppm Cong-term value: 2050 mg/m², 500 ppm Cong-term value: 1640 mg/m², 400 ppm Long-term value: 2050 mg/m², 500 ppm Cong-term value: 1640 mg/m², 400 ppm Cong-term value: 1640		
ceiling limit value: 300: 500 * ppm *10-min peak per 8-hr shift REL Short-term value: 500 mg/m ¹ , 150 ppm Long-term value: 375 mg/m ³ , 100 ppm BEL, NIC-OTO CAS: 67-63-0 Isopropanol PEL Long-term value: 225 mg/m ³ , 400 ppm Long-term value: 1225 mg/m ³ , 400 ppm Long-term value: 980 mg/m ⁴ , 400 ppm Long-term value: 980 mg/m ⁴ , 400 ppm Long-term value: 980 mg/m ³ , 400 ppm Long-term value: 922 mg/m ³ , 200 ppm BEI Long-term value: 320 mg/m ³ , 500 ppm Celling limit value: 300 mg/m ³ , 500 ppm REL Long-term value: 2000 mg/m ³ , 500 ppm Celling limit value: 1800 ⁶ mg/m ³ , 400 ppm Long-term value: 1640 mg/m ³ , 400 ppm Long-term valu		
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Trade name: IPA/Heptane/Toluene Solution v/v

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- · 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.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation \cdot *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

 Information on basic physical and General Information 	chemical properties	
· Appearance:		
Form:	Liquid	
Color:	Clear	
· Odor:	Organic	
· Odor threshold:	Not determined.	
· pH-value:	Not determined.	
· Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	82 °C (179.6 °F)	
· Flash point:	-4 °C (24.8 °F)	

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	(Contd. of page 6
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	215 °C (419 °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:	1.1 Vol %
Upper:	12 Vol %
· Vapor pressure at 20 °C (68 °F):	48 hPa (36 mm Hg)
• Density at 20 °C (68 °F):	0.7848 g/cm ³ (6.54916 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	e r): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	100.0 %
VOC content:	100.00 %
	784.8 g/l / 6.55 lb/gal
Solids content:	0.0 %
• 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.

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Trade name: IPA/Heptane/Toluene

Solution v/v

(Contd. of page 7)

3

3

11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral LD50 13,451 mg/kg (rat)

Inhalative LC50/4h 89.1 mg/l (rat)

• 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: Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

CAS: 108-88-3 Toluene

CAS: 67-63-0 Isopropanol

· 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:
- $\cdot \textit{Bioaccumulative potential No further relevant information available}.$
- *Mobility in soil* No further relevant information available.
- Additional ecological information:
- · General notes:
- Water hazard class 2 (Self-assessment): hazardous for water
- Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even 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.

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Trade name: IPA/Heptane/Toluene Solution v/v

(Contd. of page 8)

· 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. (Toluene, Heptanes, Isopropanol)
IMDG	FLAMMABLE LIQUID, N.O.S. (TOLUENE, HEPTANE
IATA	Isopropanol), MARINE POLLUTANT FLAMMABLE LIQUID, N.O.S. (TOLUENE, HEPTANE
	Isopropanol)
Transport hazard class(es)	
DOT	
RAMINELE LODO	
· Class	3 Flammable liquids
Label	3
IMDG	
Class	3 Flammable liquids
Label	3
IATA	
Class Label	3 Flammable liquids 3
	5
Packing group DOT, IMDG, IATA	II
Environmental hazards:	Product contains environmentally hazardous substances:
Marine pollutant:	Heptane Symbol (fish and tree)
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code):	: 33
EMS Number:	F-E,S-D

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Reviewed on 01/26/2021

Trade name: IPA/Heptane/Toluene Solution v/v

	(Contd. of page 9
· 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) · Excepted quantities (EQ)	5L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (TOLUENE HEPTANES, ISOPROPANOL), 3, II

15 Regulatory information

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

None of the ingredients is listed.	
Section 313 (Specific toxic chemical listings):	
CAS: 108-88-3 Toluene	
CAS: 67-63-0 Isopropanol	
· TSCA (Toxic Substances Control Act):	
Toluene	ACTIV
Isopropanol	ACTIV
n-Heptane	ACTIV
Hazardous Air Pollutants	
CAS: 108-88-3 Toluene	
Proposition 65	
Chemicals known to cause cancer:	
None of the ingredients is listed.	
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:	
CAS: 108-88-3 Toluene	
	(Contd. on page

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Solution v/v

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· Carcinogenic categories

· EPA (Environmental Protection Agency)

CAS: 108-88-3 Toluene

CAS: 142-82-5 n-Heptane

· TLV (Threshold Limit Value established by ACGIH)

CAS: 108-88-3 Toluene

CAS: 67-63-0 Isopropanol

· 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: Toluene *n*-*Heptane* Isopropanol · Hazard statements Highly flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. Suspected of damaging fertility or the unborn child. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways. · 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. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Immediately call a poison center/doctor. Specific treatment (see on this label). Do NOT induce vomiting. 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. IF exposed or concerned: Get medical advice/attention.

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US

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Trade name: IPA/Heptane/Toluene Solution v/v

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Call a poison center/doctor if you feel unwell. Get medical advice/attention if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. In case of fire: Use for extinction: CO2, powder or water spray. 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 01/26/2021 / -· Abbreviations and acronyms: 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 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 Flam. Liq. 2: Flammable liquids – Category 2 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A Repr. 2: Reproductive toxicity – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2 Asp. Tox. 1: Aspiration hazard - Category 1