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nting date 10/29/2019	Reviewed on 10/29/
Identification	
Product identifier	
Trade name: <u>IPA/Xylene</u> <u>1:1</u>	OFITE .
Article number: 280-25 Application of the substance / the mixture Laboratory chemicals	
Details of the supplier of the safety data sheet Manufacturer/Supplier: OFI Testing Equipment Inc. 11302 Steeplecrest Dr. Houston, TX 77065 (877) 837-8683	
Information department: techservices@ofite.com Technical Coordinator Sherman Nelson sherman@aquasolutions.org Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666	
Hazard(s) identification	
Flam. Liq. 2 H225 Highly flammable liquid and vapor.	
Acute Ten A 11222 Hammful if inhalad	
Acute Tox. 4 H332 Harmful if inhaled. 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 (Hazard pictograms	Globally Harmonized System (GH
GHS02 GHS07	
Signal word Danger	
Hazard-determining components of labeling:	
Xylene (Xylol) Isopropanol Hazard statements Highly flammable liquid and vapor	
Isopropanol	(Contd. on p

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	(Contd. of page 1)
ses skin irritation.	
ses serious eye irritation.	
cause drowsiness or dizziness.	
autionary statements	
o away from heat/sparks/open flames/hot surfaces No smoking.	
und/bond container and receiving equipment.	
explosion-proof electrical/ventilating/lighting/equipment.	
only non-sparking tools.	
e precautionary measures against static discharge.	
d breathing dust/fume/gas/mist/vapors/spray	
h thoroughly after handling.	
only outdoors or in a well-ventilated area.	
r protective gloves/protective clothing/eye protection/face protection.	
skin (or hair): Take off immediately all contaminated clothing. Rinse skin with	n water/shower.
NHALED: Remove person to fresh air and keep comfortable for breathing.	
eyes: Rinse cautiously with water for several minutes. Remove contact len.	ses, if present and easy to do
tinue rinsing.	
a poison center/doctor if you feel unwell.	
ific treatment (see on this label).	
e off contaminated clothing and wash it before reuse.	
in irritation occurs: Get medical advice/attention.	
e irritation persists: Get medical advice/attention.	
use of fire: Use for extinction: CO2, powder or water spray.	
e in a well-ventilated place. Keep container tightly closed.	
e in a well-ventilated place. Keep cool.	
e locked up.	
pose of contents/container in accordance with local/regional/national/international/	onal regulations.
sification system:	
PA ratings (scale 0 - 4)	
Health = 2	
Fire = 3	
$\frac{1}{Reactivity} = 0$	
r Keucuvuy = 0	
IS-ratings (scale 0 - 4)	
$LTH \qquad 2 \qquad Health = 2$	
3 Fire = 3	
CTIVITY 0 Reactivity = 0	
er hazards	
ilts of PBT and vPvB assessment	
: Not applicable.	
B: Not applicable.	

· Chemical characterization: Mixtures

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

· Dangerous components:

CAS: 1330-20-7 Xylene (Xylol)

52.395% (Contd. on page 3)

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Trade name: IPA/Xylene 1:1

CAS: 67-63-0 Isopropanol

(Contd. of page 2) 47.605%

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. 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: 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.

- · 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 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.

- Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.
- Protective Action Criteria for Chemicals

· PAC-1:

1110 11		
CAS: 1330-20-7	Xylene (Xylol)	130 ppm
CAS: 67-63-0	Isopropanol	400 ppm
		(Contd. on page 4)

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Trade name: IPA/Xylene 1:1

		(Contd. of page 3)
· PAC-2:		
CAS: 1330-20-7	Xylene (Xylol)	920* ppm
CAS: 67-63-0	Isopropanol	2000* ppm
· PAC-3:		
CAS: 1330-20-7	Xylene (Xylol)	2500* ppm
CAS: 67-63-0	Isopropanol	12000** 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: 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.
- $\cdot \textit{Specific end use}(s) \textit{ No further relevant information available}.$

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

· Control parameters

	ponents with limit values that require monitoring at the workplace	e:
CAS:	1330-20-7 Xylene (Xylol)	
PEL	Long-term value: 435 mg/m³, 100 ppm	
REL	Short-term value: 655 mg/m³, 150 ppm Long-term value: 435 mg/m³, 100 ppm	
TLV	Short-term value: 651 mg/m³, 150 ppm Long-term value: 434 mg/m³, 100 ppm BEI	
CAS:	67-63-0 Isopropanol	
PEL	Long-term value: 980 mg/m³, 400 ppm	
	Short-term value: 1225 mg/m³, 500 ppm Long-term value: 980 mg/m³, 400 ppm	
	Short-term value: 984 mg/m³, 400 ppm Long-term value: 492 mg/m³, 200 ppm BEI	
		(Contd. on page 5

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Incr	(Cond. of page 4)
-	edients with biological limit values:
	: 1330-20-7 Xylene (Xylol)
	1.5 g/g creatinine
	LD50 Intraperitoneal: urine
	Time: end of shift
C L C	LD50: Methylhippuric acids
	: 67-63-0 Isopropanol
BEI	40 mg/L
	LD50 Intraperitoneal: urine
	Time: end of shift at end of workweek
	LD50: Acetone (background, nonspecific)
Addi	tional information: The lists that were valid during the creation were used as basis.
Expo	osure controls
	onal protective equipment:
	eral protective and hygienic measures:
Keep	away from foodstuffs, beverages and feed.
	ediately remove all soiled and contaminated clothing.
	h hands before breaks and at the end of work.
	d contact with the eyes and skin.
	thing equipment:
	ise 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.
Prot	ection of hands:
ſ	1)
111	Protective gloves
	glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
	to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the
	nical mixture.
	ction of the glove material on consideration of the penetration times, rates of diffusion and the degradation
	r rial of gloves selection of the suitable gloves does not only depend on the material, but also on further marks of quality and
	rs 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.
	tration time of glove material
	exact break through time has to be found out by the manufacturer of the protective gloves and has to be
obse	
	protection:
-50	
$\left(\right)$	
0)	Tightly sealed goggles

· Body protection: Protective work clothing

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Information on basic physical and o	chemical properties
General Information	
Appearance:	
Form:	Fluid
Color:	According to product specification
Odor:	Characteristic
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	138 °C (280.4 °F)
Flash point:	17 °C (62.6 °F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	425 °C (797 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapo mixtures are possible.
Explosion limits:	
Lower:	1.1 Vol %
Upper:	12 Vol %
Vapor pressure at 20 °C (68 °F):	43 hPa (32.3 mm Hg)
Density at 20 °C (68 °F):	0.8245 g/cm³ (6.88045 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
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 %
	824.5 g/l / 6.88 lb/gal
Solids content:	0.0 %
Other information	No further relevant information available.

10 Stability and reactivity

• *Reactivity* No further relevant information available.

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· 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	8,207 mg/kg (rat)
Dermal	LD50	3,817 mg/kg (rabbit)
Inhalative	LC50/4h	15.7 mg/l

CAS: 1330-20-7 Xylene (Xylol)

Dermal LD50 1,100 mg/kg (ATE)

Inhalative LC50/4h 11 mg/l (ATE)

· 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: Harmful

Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

All components have the value 3.

· 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 2 (Self-assessment): hazardous for water

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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.

 $\cdot \textit{Other adverse effects No further relevant information available}.$

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.

UN-Number	
DOT, IMDG, IATA	UN1993
UN proper shipping name	
DOT	Flammable liquids, n.o.s. (Isopropanol, Xylenes)
IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (Isopropanol, XYLENES)
Transport hazard class(es)	
DOT	
FLAMABLE LOUD	
3	
Class	3 Flammable liquids
Label	3
IMDG, IATA	
(),	
3	
Class	3 Flammable liquids
Label	3
Packing group	
DOT, IMDG, IATA	II
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids
Danger code (Kemler):	33
EMS Number:	55 F-E,S-E

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Not applicable.
On passenger aircraft/rail: 5 L
On cargo aircraft only: 60 L
1L
Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml
UN 1993 FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL XYLENES), 3, II

15 Regulatory information

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

- Suru	
· 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):	
Xylene (Xylol)	ACTIVE
Isopropanol	ACTIVE
· Hazardous Air Pollutants	
CAS: 1330-20-7 Xylene (Xylol)	
· 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:	
None of the ingredients is listed.	
· Carcinogenic categories	
· EPA (Environmental Protection Agency)	
CAS: 1330-20-7 Xylene (Xylol)	
· TLV (Threshold Limit Value established by ACGIH)	
All components have the value A4.	
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\cdot 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: *Xylene* (*Xylol*) Isopropanol · Hazard statements Highly flammable liquid and vapor. Harmful if inhaled. Causes skin irritation. Causes serious eve 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. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. Specific treatment (see on this label). 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.

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1:1

	(Contd. of page 10)
· Contact:	
· Date of preparation / last revision	
Revision 0.0, 10-23-2019: Creation date for SDS. STN	
Revision 0.1, 05-05-2015: revised to correct emergency contact and technical contact information	STN
Revision 0.1, 08-14-2019: reviewed SDS. STN	. 0111
Creation date for SDS 06/10/2014 LS	
10/29/2019 / -	
· 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	
Acute Tox. 4: Acute toxicity – Category 4	
Skin Irrit. 2: Skin corrosion/irritation – Category 2	
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A	
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	
	US