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Identification	
Product identifier	
Trade name: ZymoPURE Wash 2 (Con	acentrate)
Article number: D4200-6-10, D4200-6-	
Details of the supplier of the safety data Manufacturer/Supplier: Zymo Research Corp. 17062 Murphy Ave. Irvine, CA 92614 USA Phone: 1-949-679-1190 or 1-888-882-96 sds@zymoresearch.com	
Information department: Product safety	y department
Emergency telephone number:	-
During normal business hours (8 am to 5	5 pm Pacific Standard Time): +1 (949) 679 1190
Hazard(s) identification Classification of the substance or mixtu	ıre
GHS02 Flame Flam. Liq. 2 H225 Highly flammable li GHS07	iquid and vapor.
Eye Irrit. 2A H319 Causes serious eye	irritation.
STOT SE 3 H336 May cause drowsing	
Label elements GHS label elements The product is class Hazard pictograms GHS02, GHS07 Signal word Danger	sified and labeled according to the Globally Harmonized System (GHS).
Hazard-determining components of lab	neling:
propan-2-ol	
<i>Hazard statements</i> Highly flammable liquid and vapor.	
Causes serious eye irritation.	
May cause drowsiness or dizziness.	
Precautionary statements	
Keep away from heat/sparks/open flames Use explosion-proof electrical/ventilating	
Use explosion-proof electrical/ventilatin	
	ors/sprav
Avoid breathing dust/fume/gas/mist/vapo Wear protective gloves / eye protection /	



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Trade name: ZymoPURE Wash 2 (Concentrate) (Contd. of page 1) Use only non-sparking tools. Take precautionary measures against static discharge. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. 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. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. 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) Health = 1Fire = 3Reactivity = 0· HMIS-ratings (scale 0 - 4) HEALTH 1 Health = 1FIRE 3 Fire = 3Reactivity = 0**REACTIVITY** 0 · Other hazards · Results of PBT and vPvB assessment · *PBT*: Not applicable. · vPvB: Not applicable. **3** Composition/information on ingredients · Chemical characterization: Mixtures · Description: Mixture of the substances listed below with nonhazardous additions. · Dangerous components: ≤100% CAS: 67-63-0 propan-2-ol

4 First-aid measures

- · Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

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- *After swallowing:* Do not induce vomiting; immediately call for medical help.
- · 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.
- · Advice for firefighters
- · Protective equipment: Wear protective clothing.

6 Accidental release measures

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).	
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:	
CAS: 67-63-0 propan-2-ol	400 ppm
· PAC-2:	
CAS: 67-63-0 propan-2-ol	2000* ppm
· PAC-3:	
CAS: 67-63-0 propan-2-ol	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.

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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.

• *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.

· Control parameters

· Com	ponents with limit values that require monitoring at the workplace:
CAS	: 67-63-0 propan-2-ol
PEL	Long-term value: 980 mg/m ³ , 400 ppm
REL	Short-term value: 1225 mg/m ³ , 500 ppm Long-term value: 980 mg/m ³ , 400 ppm
TLV	Short-term value: 984 mg/m ³ , 400 ppm Long-term value: 492 mg/m ³ , 200 ppm BEI
· Ingre	edients with biological limit values:
CAS	: 67-63-0 propan-2-ol
	40 mg/L
	Medium: urine
	Time: end of shift at end of workweek
	Parameter: Acetone (background, nonspecific)
· Addi	tional information: The lists that were valid during the creation were used as basis.
· Expo	osure controls
· Perso	onal protective equipment:
	eral protective and hygienic measures:
	away from foodstuffs, beverages and feed.
	ediately remove all soiled and contaminated clothing.
	n hands before breaks and at the end of work.
	d contact with the eyes.
	d contact with the eyes and skin.
	thing equipment:
	se of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use
respi	ratory protective device that is independent of circulating air. (Contd. on page 5)

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• Protection of hands:	
Protective gloves	
Due to missing tests no recomme chemical mixture. Selection of the glove material or • <i>Material of gloves</i> The selection of the suitable glov varies from manufacturer to man the glove material can not be call • <i>Penetration time of glove material</i>	s to be found out by the manufacturer of the protective gloves and has to be
9 Physical and chemical pro	•
9 Physical and chemical pro • Information on basic physical a • General Information • Appearance:	and chemical properties
9 Physical and chemical pro • Information on basic physical a • General Information • Appearance: Form:	and chemical properties Liquid
9 Physical and chemical pro • Information on basic physical a • General Information • Appearance: Form: Color:	and chemical properties Liquid Clear
9 Physical and chemical pro • Information on basic physical a • General Information • Appearance: Form:	and chemical properties Liquid

• Odor threshold:	Not determined.
· pH-value:	Not determined.
• Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 82 °C (180 °F)
· Flash point:	13 °C (55 °F)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	425 °C (797 °F)
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
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Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
Explosion limits:	
Lower:	2.0 Vol %
Upper:	12.0 Vol %
Vapor pressure at 20 °C (68 °F):	43 hPa (32 mm Hg)
Density:	Not determined.
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:	80.0 %
VOC content:	80.0 %
	800.0 g/l / 6.68 lb/gl
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: CAS: 67-63-0 propan-2-ol Oral LD50 5045 mg/kg (rat) Dermal LD50 12800 mg/kg (rabbit)

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Inhalative LC50/4 h 30 mg/l (rat)

· Primary irritant effect:

- on the skin: No irritant effect.
- 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: 67-63-0 propan-2-ol

· 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:

Dispose of contents in accordance with local/regional/national, and international recommendations.

- · Uncleaned packagings:
- · Recommendation:

Dispose of container in acoordance with local/regional/national and international recommendations.

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

Transport information	
UN-Number DOT, IMDG, IATA	UN1219
UN proper shipping name DOT	Isopropanol solution
IMDG, IATA	ISOPROPANOL (ISOPROPYL ALCOHOL) solution
Transport hazard class(es)	
DOT PLANMABLE LIQUID	
Class	3 Flammable liquids
Label	3
Class Label	3 Flammable liquids
Packing group	-
DOT, IMDG, IATA	II
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Flammable liquids
Danger code (Kemler):	33
EMS Number:	F-E,S-D
Stowage Category	В
Transport in bulk according to Annex I MARPOL73/78 and the IBC Code	II of Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 5 L
	On cargo aircraft only: 60 L

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· 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 1219 ISOPROPANOL SOLUTION, 3, II	

15 Regulatory information

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):	
All ingredients are listed.	
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)	
None of the ingredients is listed.	
TLV (Threshold Limit Value established by ACGIH)	
CAS: 67-63-0 propan-2-ol	A
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 Harr Hazard pictograms GHS02, GHS07 Signal word Danger	nonized System (GHS).
Hazard-determining components of labeling:	
propan-2-ol	

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Safety Data Sheet acc. to OSHA HCS

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Trade name: ZymoPURE Wash 2 (Concentrate) (Contd. of page 9) · Hazard statements Highly flammable liquid and vapor. Causes serious eye irritation. May cause drowsiness or dizziness. · Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. No smoking. Use explosion-proof electrical/ventilating/lighting/equipment. Avoid breathing dust/fume/gas/mist/vapors/spray Wear protective gloves / eye protection / face protection. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. 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. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. 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:

Zymo Research Corp. Safety Department 17062 Murphy Ave. Irvine, CA 92614 USA Phone: 1-949-679-1190 or 1-888-882-9682 · Contact: sds@zymoresearch.com · Date of preparation / last revision 10/11/2017 / -· 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) 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)

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LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Flam. Liq. 2: Flammable liquids – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 Page 11/11