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 Product identifier Trade name: Lemonaire Article number: 5545 Lemonaire Details of the supplier of the safety data sheet Amandacturer/Supplier: Power Kleen Corporation 101 South Boyview Bka. OLDSMAR, FL 34677 USA Information department: Product Safety Department Tenergency telephone number: ChemTel Inc. (800) 255-3924 Intl. +01 (813) 248-0585 2 Haard(s) Identification Classification of the substance or mixture Image: Constitution of the product is classified and labeled according to the Globally Harmonized System (GHS). Italied elements Isolation of Warning Isolation of view in reproduct is classified and labeled according to the Globally Harmonized System (GHS). Italied before use. Responses Response Response Italied before number: Italied advice is needed, have product container or label at hand. Keen out of reach of bilditen. Read tabel fore modified. Italied before use. Read tabel fore number: Italies of the substance container or label at hand. Keen out of reach of bilditen. Read tabel fore number: Italies of the substance is needed, have product container or label at hand. Keen out of reach of bilditen. Read tabel fore nume. Italies of the substance is needed. Italies of the substance for several minutes. Remove contact lenses, if present and easy to do. Continentisms. The VES: Rins cautionsly with water for several minutes. Remove contact lenses, if present and easy to do. Continentisms. The Production system: Cheffield is a species of the several minutes. Remove contact lenses, if present and easy to do. Continerisms. A privation	1 Identification	
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2.5-10%

 $\leq 2.5\%$

 $\leq 2.5\%$

Trade name: Lemonaire

· HMIS-ratings (scale 0 - 4)



• 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:

9016-45-9 NP-9 (4-nonyl phenol 9 mole E.O.)

67-63-0 propan-2-ol

Fragrance (Generic)

4 First-aid measures

· Description of first aid measures

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- 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. Remove contact lenses if able to do so.

· After swallowing:

Do not induce vomiting; immediately call for medical help.

Rinse out mouth and then drink plenty of water.

A person vomiting while lying on their back should be turned onto their side.

- Information for doctor:
- · Most important symptoms and effects, both acute and delayed
- Cramp
- Nausea

· Indication of any immediate medical attention and special treatment needed

Treat skin and mucous membrane with antihistamine and corticoid preparations.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

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Trade name: Lemonaire

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Not required.

• 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. 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.

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: No special measures required.

· Conditions for safe storage, including any incompatibilities

· Storage:

• Requirements to be met by storerooms and receptacles: No special requirements.

• Information about storage in one common storage facility: Store away from oxidizing agents. Store away from foodstuffs.

• Further information about storage conditions: None.

• 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

· Components with limit values that require monitoring at the workplace:

67-63-0 propan-2-ol

PEL Long-term value: 980 mg/m³, 400 ppm

- REL Short-term value: 1225 mg/m³, 500 ppm Long-term value: 980 mg/m³, 400 ppm
- TLV Short-term value: 984 mg/m³, 400 ppm Long-term value: 492 mg/m³, 200 ppm BEI

· Ingredients with biological limit values:

67-63-0 propan-2-ol

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Trade name: Lemonaire

BEI 40 mg/L

Medium: urine

Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific)

• Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

- · Personal protective equipment:
- · General protective and hygienic measures: Wash hands before breaks and at the end of work.
- · 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

• Material of gloves

Neoprene gloves

Plastic gloves

Rubber 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: Goggles recommended during refilling.

Information on basic physical and General Information	chemical properties	
Appearance:		
Form:	Liquid	
Color:	Yellow	
Odor:	Lemon	
Odour threshold:	Not determined.	
pH-value at 20 °C (68 °F):	7.2	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	$< 100 \ ^{\circ}C \ (< 212 \ ^{\circ}F)$	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	

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	(Contd.	of page
Ignition temperature:		
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure:	Not determined.	
Density at 20 °C (68 °F):	1 g/cm ³ (8.345 lbs/gal)	
Relative density	Not determined.	
Vapour density	Not determined.	
• Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/wa	ter): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	2.0 %	
Water:	94.3 %	
VOC content:	3.1 %	
	20.2 g/l / 0.17 lb/gl	
Solids content:	2.6 %	
• Other information	No further relevant information available.	

10 Stability and reactivity

· Reactivity

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions Reacts with strong acids and oxidizing agents.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: Carbon monoxide and carbon dioxide

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

- Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- \cdot on the eye: Strong irritant with the danger of severe eye injury.
- · Sensitization: No sensitizing effects known.

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USA

Trade name: Lemonaire

· Additional toxicological information:

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

67-63-0 propan-2-ol

· NTP (National Toxicology Program)

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.
- · Ecotoxical effects:
- Remark: Toxic for fish
- · 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. Also poisonous for fish and plankton in water bodies.

- Toxic for aquatic organisms
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

· UN-Number	
· IMDG, IATA	UN3082
\cdot UN proper shipping name	
·IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUIL
	N.O.S. (NP-9 (4-nonyl phenol 9 mole E.O.)), MARINE POLLUTAN
·IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUIL
	N.O.S. (NP-9 (4-nonyl phenol 9 mole E.O.))

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Trade name: Lemonaire

· Transport hazard class(es)	(Contd. of page
-	
· DOT	Not applicable.
· IMDG, IATA	
Class	9 Miscellaneous dangerous substances and articles.
Label	9
Packing group	
IMDG, IATA	III
Environmental hazards:	Product contains environmentally hazardous substances: NP-9 (
Martin Harris	nonyl phenol 9 mole E.O.)
Marine pollutant:	Yes Symbol (fish and tree)
Special marking (IATA):	Symbol (fish and tree) Symbol (fish and tree)
Special precautions for user	Warning: Miscellaneous dangerous substances and articles
Danger code (Kemler):	90
EMS Number:	F-A,S-F
Transport in bulk according to Annex II of	f
MARPOL73/78 and the IBC Code	Not applicable.
UN "Model Regulation":	UN3082, Environmentally hazardous substances, liquid, n.o.s. (NI 9 (4-nonyl phenol 9 mole E.O.)), 9, III

15 Regulatory information

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

 \cdot Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

67-63-0 propan-2-ol

· TSCA (Toxic Substances Control Act):

9016-45-9 NP-9 (4-nonyl phenol 9 mole E.O.)

67-63-0 propan-2-ol

7732-18-5 water, distilled, conductivity or of similar purity

· 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.

· Chemicalsknown to cause reproductive toxicity for males.

None of the ingredients is listed.

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Trade name: Lemonaire

· 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)

67-63-0 propan-2-ol

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

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 Warning

· Hazard statements

Causes serious eye irritation.

· Precautionary statements

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use.

Wear protective gloves/protective clothing/eye protection/face protection.

Wash thoroughly after handling.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

· 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 MSDS: Environment protection department.

· Date of preparation / last revision 02/07/2014

· Abbreviations and acronvms:

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

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)