Printing date 11/03/2014

Reviewed on 01/27/2014

Printing date 11/05/2014	Reviewed on 01/2//2014
1 Identification	
· Product identifier	
• Trade name: Mighty Orange 15	Jamson Labs PowerKleen
• Article number: 1630 PK	Samson Laus I ower meen
	Chemical Solutions Since 1973
• Details of the supplier of the safety data sheet • Manufacturer/Supplier:	
Power Kleen Corporation	
101 South Bayview Blvd.	
OLDSMAR, FL 34677 USA	
• Information department: Product Safety Department	at the second
• Emergency telephone number: ChemTel Inc. (800)	
2 Hazard(s) identification	
2 Huzuru(s) menufication	
· Classification of the substance or mixture	
GHS08 Health hazard	
Page Sang 1 H224 May agues allower or asthma	untone or breathing difficulties if inhold
Resp. Sens. 1 H334 May cause allergy or asthma sy Asp. Tox. 1 H304 May be fatal if swallowed and e	
GHS07	
Skin Irrit. 2 H315 Causes skin irritation.	
Eye Irrit. 2A H319 Causes serious eye irritation.	
Skin Sens. 1 H317 May cause an allergic skin read	ction.
H227 Combustible liquid.	
• Label elements	beled according to the Globally Harmonized System (GHS).
• Hazard pictograms	belea accoraing to the Globally Harmonized System (GHS).
GHS08	
Simulation Damage	
· Signal word Danger	
• Hazard-determining components of labeling: d-Limonene (Citrus Terpenes)	
· Hazard statements	
Combustible liquid.	
Causes skin irritation.	
•	
May cause allergy or astnma symptoms or breathing May cause an allergic skin reaction.	difficulties if inhaled
	difficulties if inhaled.
May be fatal if swallowed and enters airways.	difficulties if inhaled.
Causes serious eye irritation. May cause allergy or asthma symptoms or breathing May cause an allergic skin reaction	

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### Trade name: Mighty Orange 15

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· Precautionary statements
If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read label before use.
Keep away from heat/sparks/open flames/hot surfaces No smoking.
In case of inadequate ventilation wear respiratory protection.
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).
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.
· Classification system:
· NFPA ratings (scale 0 - 4)
Health = 1
$\frac{2}{Fire} = 2$
$\frac{1}{10} Reactivity = 0$
• •
· HMIS-ratings (scale 0 - 4)
<b>HEALTH</b> 1 Health = $*1$
FIRE 2 Fire = 2
$\frac{1}{1} \frac{1}{1} \frac{1}$
· Other hazards
· Results of PBT and vPvB assessment
• <b>PBT:</b> Not applicable.
· <b>vPvB:</b> Not applicable.
3 Composition/information on ingredients
· Chemical characterization: Mixtures
· Chemical characterization; Mixtures

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

· Dangerous components:		
94266-47-4	d-Limonene (Citrus Terpenes)	25-50%
66455-15-0	C10-12 6 Mole Linear Alcohol Ethoxylate	2.5-10%

### 4 First-aid measures

 $\cdot$  Description of first aid measures

• After inhalation:

Supply fresh air and to be sure call for a doctor.

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:

Remove contact lenses if able to do so.

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

• 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.

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Most important symptoms and effects, both acute and delayed Nausea
Asthma attacks
Allergic reactions
Breathing difficulty
Gastric or intestinal disorders
Danger Danger of pulmonary edema.
Indication of any immediate medical attention and special treatment needed

Treat skin and mucous membrane with antihistamine and corticoid preparations. If swallowed or in case of vomiting, danger of entering the lungs. Severe allergic skin reaction, bronchial spasms and anaphylactic shock are possible.

### **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.

### 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.

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.

## 7 Handling and storage

 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
 Prevent formation of aerosols.
 Information about protection against explosions and fires: Protect from heat.

- Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Provide solvent resistant, sealed floor.
- *Information about storage in one common storage facility:* Store away from oxidizing agents.
- Store away from foodstuffs.
- Further information about storage conditions: Keep receptacle tightly sealed.

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Protect from heat and direct sunlight.

· 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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- 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. 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. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

Neoprene gloves

Nitrile rubber, NBR

Fluorocarbon rubber (Viton)

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.

· Not suitable are gloves made of the following materials: Leather gloves

· Eye protection:



Tightly sealed goggles

· Body protection: Solvent resistant protective clothing

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Physical and chemical proper	rties	
Information on basic physical and chemical properties		
General Information		
Appearance:		
Form:	Liquid	
Color:	Orange	
Odor:	Citrus	
Odour threshold:	Not determined.	
pH-value at 20 °C (68 °F):	6	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	61 °C (142 °F)	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:		
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Not determined.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure:	Not determined.	
Density at 20 °C (68 °F):	0.85 g/cm <sup>3</sup> (7.093 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.	
Partition coefficient (n-octanol/wat	ter): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	0.0 %	
Water:	38.2 %	
VOC content:	38.2 %	
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.

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# Trade name: Mighty Orange 15

- **Possibility of hazardous reactions** Reacts with oxidizing agents. Flammable.
- Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- Hazardous decomposition products: Hydrocarbons 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.
- on the eye: Irritating effect.
- · Sensitization:
- Sensitization possible through inhalation.
- Sensitization possible through skin contact.
- 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)

#### 1

- · 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.
- · *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.

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• 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	Not regulated
IMDG, IATA	UN3082
UN proper shipping name	
DOT	Not regulated
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUII N.O.S. (d-Limonene (Citrus Terpenes)), MARINE POLLUTANT
IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUII N.O.S. (d-Limonene (Citrus Terpenes))
Transport hazard class(es)	
DOT	Not applicable
Class Label	9 Miscellaneous dangerous substances and articles 9
Label	e e e e e e e e e e e e e e e e e e e
Label Packing group	9
Label	•
Label Packing group DOT IMDG, IATA	9 Not applicable III
Label Packing group DOT IMDG, IATA Environmental hazards:	9 Not applicable III Product contains environmentally hazardous substances: a Limonene (Citrus Terpenes) Yes Symbol (fish and tree)
Label Packing group DOT	9 Not applicable III Product contains environmentally hazardous substances: a Limonene (Citrus Terpenes) Yes
Label Packing group DOT IMDG, IATA Environmental hazards: Marine pollutant: Special marking (IATA): Special precautions for user	9 Not applicable III Product contains environmentally hazardous substances: a Limonene (Citrus Terpenes) Yes Symbol (fish and tree) Symbol (fish and tree)
Label Packing group DOT IMDG, IATA Environmental hazards: Marine pollutant: Special marking (IATA): Special precautions for user Danger code (Kemler):	9 Not applicable III Product contains environmentally hazardous substances: a Limonene (Citrus Terpenes) Yes Symbol (fish and tree) Symbol (fish and tree) 90
Label Packing group DOT IMDG, IATA Environmental hazards: Marine pollutant: Special marking (IATA): Special precautions for user	9 Not applicable III Product contains environmentally hazardous substances: a Limonene (Citrus Terpenes) Yes Symbol (fish and tree) Symbol (fish and tree)

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· Transport/Additional information:	
· IMDG	
$\cdot$ Limited quantities (LQ)	5L
$\cdot$ Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN3082, Environmentally hazardous substances, liquid, n.o.s. (d- Limonene (Citrus Terpenes)), 9, III

### **15 Regulatory information**

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

• Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

66455-15-0 C10-12 6 Mole Linear Alcohol Ethoxylate

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.

· 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)

None of the ingredients is listed.

· 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* 

JHS08

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#### Trade name: Mighty Orange 15

	(Contd. of page 8)
· Signal word Danger	
· Hazard-determining components of labeling:	
d-Limonene (Citrus Terpenes)	
· Hazard statements	
Combustible liquid.	
Causes skin irritation.	
Causes serious eye irritation.	
May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
May cause an allergic skin reaction.	
May be fatal if swallowed and enters airways.	
· Precautionary statements	
If medical advice is needed, have product container or label at hand.	
Keep out of reach of children.	
Read label before use.	
Keep away from heat/sparks/open flames/hot surfaces No smoking.	
In case of inadequate ventilation wear respiratory protection.	
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if prese	nt and easy to do.
Continue rinsing.	
Specific treatment (see on this label).	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international regulation	ons.
• 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 11/03/2014 / -01/27/2014 · 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 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) : Flammable liquids, Hazard Category 4 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1 Asp. Tox. 1: Aspiration hazard, Hazard Category 1