Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 04/23/2015 Revision date: 05/06/2015

SECTION 1: Identification of the sub	ostance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Product name	: SUPER-O CITRUS DEGREASER
Product code	: C-227B
1.2. Relevant identified uses of the subs	stance or mixture and uses advised against
Use of the substance/mixture	: Degreasing agent
1.3. Details of the supplier of the safety	data sheet
JCC CHEMICAL P.O. Box 4519 CARILINA, PR 00984 T 787-633-2915 - F 787-257-4895	
1.4. Emergency telephone number	
Emergency number	: CHEM TEL 800-255-3924
SECTION 2: Hazards identification	
2.1. Classification of the substance or n	nixture
GHS-US classification	
Skin Irrit. 2	H315
Eye Dam. 1 Skin Sens. 1	H318 H317
Full text of H-phrases: see section 16	
2.2. Label elements	
GHS-US labelling	
Hazard pictograms (GHS-US)	: GHS07
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: Causes skin irritation May cause an allergic skin reaction Causes serious eye damage
Precautionary statements (GHS-US)	<ul> <li>Avoid breathing vapours, spray, mist Wash hands thoroughly after handling Contaminated work clothing must not be allowed out of the workplace Wear eye protection, protective gloves If on skin: Wash with plenty of water If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a doctor Specific treatment (see first aid section on this label. on this label) If skin irritation occurs: Get medical advice/attention If skin irritation or rash occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse Dispose of contents/container to an approved waste disposal plant</li> </ul>

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

Not applicable

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#### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

#### Not applicable 3.2. Mixture

Name	Product identifier	%	GHS-US classification
D-limonene	(CAS No) 5989-27-5	4 - 6	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
disodium metasilicate, pentahydrate	(CAS No) 10213-79-3	4 - 6	Skin Corr. 1B, H314 STOT SE 3, H335
EDTA; tetrasodium ethylenediaminetetracetate	(CAS No) 64-02-8	2 - 4	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
sodium xylenesulfonate	(CAS No) 1300-72-7	2 - 3	Skin Irrit. 2, H315 STOT SE 3, H335 Eye Irrit. 2A, H319
TKPP tetrapotassium pyrophosphate, anhydrous	(CAS No) 7320-34-5	0.5 - 1.5	Skin Irrit. 2, H315 Eye Irrit. 2A, H319

#### Full text of H-phrases: see section 16

SECTION 4: First aid massures		
SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).	
First-aid measures after inhalation	: Allow victim to breathe fresh air. Allow the victim to rest.	
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of soap and water. Wash contaminated clothing before reuse. Specific treatment (see Wash immediately with lots of water on this label). If skin irritation or rash occurs: Get medical advice/attention.	
First-aid measures after eye contact	<ul> <li>Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.</li> </ul>	
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.	
4.2. Most important symptoms and effect	cts, both acute and delayed	
Symptoms/injuries after inhalation	: May cause an allergic skin reaction.	
Symptoms/injuries after skin contact	: Causes skin irritation.	
Symptoms/injuries after eye contact	: Causes serious eye damage.	
4.3. Indication of any immediate medica	I attention and special treatment needed	
Treat symptomatically.		
SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.	
Unsuitable extinguishing media	: Do not use a heavy water stream.	
5.2. Special hazards arising from the su	bstance or mixture	
No additional information available		
5.3. Advice for firefighters		
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.	
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.	
SECTION 6: Accidental release mea	sures	
	uipment and emergency procedures	
6.1.1. For non-emergency personnel		
Emergency procedures	: Evacuate unnecessary personnel.	
6.1.2. For emergency responders		
Protective equipment	: Equip cleanup crew with proper protection.	
Emergency procedures	: Ventilate area.	

Emergency procedures 06/30/2015

#### EN (English)

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6.2.	Environmental precautions	
Prever	nt entry to sewers and public waters. No	tify authorities if liquid enters sewers or public waters.
6.3.	Methods and material for contain	ment and cleaning up
Metho	ds for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
6.4.	Reference to other sections	
See H	eading 8. Exposure controls and persor	al protection.
SEC	FION 7: Handling and storage	
SEC	non 7. Handling and storage	
7.1.	Precautions for safe handling	
Additic	onal hazards when processed	: Handle empty containers with care because residual vapours are flammable.
Precau	utions for safe handling	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. No open flames. No smoking. Take precautionary measures against static discharge. Avoid breathing spray, mist, vapours.
Hygier	ne measures	: Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2.	7.2. Conditions for safe storage, including any incompatibilities		
Storage	e conditions	: Keep only in the original container in a cool, well ventilated place away from : Heat sources. Keep container tightly closed.	
Incomp	atible products	: Strong bases. Strong acids.	
Incomp	atible materials	: Sources of ignition. Direct sunlight. Heat sources.	
7.3.	Specific end use(s)		

### No additional information available

SECTION 8: Exposure controls/personal protection			
8.1. Control parameters			
SUPER-O CITRUS	S DEGREASER		
ACGIH	Not applicable		
OSHA	Not applicable		
EDTA; tetrasodium	ım ethylenediaminetetracetate (64-02-8)		
ACGIH	Not applicable		
OSHA	Not applicable		
D-limonene (5989-	J-27-5)		
ACGIH	Not applicable		
OSHA	Not applicable		
TKPP tetrapotassi	sium pyrophosphate, anhydrous (7320-34-5)		
ACGIH	Not applicable		
OSHA	Not applicable		
sodium xylenesulf	Ifonate (1300-72-7)		
ACGIH	Not applicable		
OSHA	Not applicable		
disodium metasilio	disodium metasilicate, pentahydrate (10213-79-3)		
ACGIH	Not applicable		
OSHA	Not applicable		

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8.2.	Exposure controls	
Persor	al protective equipment	: Safety glasses. Gloves.
Hand p	protection	: Wear protective gloves.
Eye pr	otection	: Chemical goggles or safety glasses.
Skin a	nd body protection	: Wear suitable protective clothing.
Respir	atory protection	: Wear appropriate mask.
Other i	nformation	: Do not eat, drink or smoke during use.
SECT	FION 9: Physical and chemica	properties
9.1.	Information on basic physical and	chemical properties

internation on sacro phycroar an	
Physical state	: Liquid
Colour	: Orange
Odour	: Citrus fruits
Odour threshold	: No data available
рН	: 12 - 13
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Vapour pressure	: No data available
Relative density	: No data available
Relative vapour density at 20 °C	: No data available
Solubility	: Water: Solubility in water of component(s) of the mixture : • TALL OIL fatty acids: 0.0009 g/100ml • EDTA; tetrasodium ethylenediaminetetracetate: 103 g/100ml • nonylphenoxypoly(ethyleneoxy)ethanol: soluble • TSP trisodium orthophosphate, dodecahydrate: 12 g/100ml • butyl glycolether: Complete • D-limonene: insoluble • TKPP tetrapotassium pyrophosphate, anhydrous: 187 g/100ml • disodium metasilicate, pentahydrate: 17.5 g/100ml
Log Pow	: No data available
Log Kow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

#### 9.2. **Other information**

No additional information available

SECTI	ECTION 10: Stability and reactivity		
10.1.	Reactivity		
No addit	ional information available		
10.2.	Chemical stability		
Stable u	Stable under normal conditions.		
10.3.	Possibility of hazardous reactions		
Not esta	Not established.		
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#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat.

#### 10.5. Incompatible materials

Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. May release flammable gases.

# SECTION 11: Toxicological information 11.1. Information on toxicological effects

Acute toxicity

: Not classified

EDTA; tetrasodium ethylenediaminetetracet	
LD50 oral rat	> 2000 mg/kg (Rat)
ATE US (oral)	500.000 mg/kg bodyweight
D-limonene (5989-27-5)	
LD50 oral rat	4400 mg/kg bodyweight (Rat; OECD 423: Acute Oral Toxicity – Acute Toxic Class Method; Literature study; > 2000 mg/kg bodyweight; Rat; Read-across)
LD50 dermal rabbit	> 5000 mg/kg bodyweight (Rabbit; Weight of evidence; Equivalent or similar to OECD 402)
ATE US (oral)	4400.000 mg/kg bodyweight
TKPP tetrapotassium pyrophosphate, anhyo	drous (7320-34-5)
LD50 dermal rabbit	> 4640 mg/kg (Rabbit)
kin corrosion/irritation	: Causes skin irritation.
All concommutation	pH: 12 - 13
erious eye damage/irritation	: Causes serious eye damage.
	pH: 12 - 13
espiratory or skin sensitisation	: May cause an allergic skin reaction.
Serm cell mutagenicity	: Not classified
carcinogenicity	: Not classified
D-limonene (5989-27-5)	
IARC group	3 - Not classifiable
reproductive toxicity	: Not classified
pecific target organ toxicity (single exposure)	: Not classified
pecific target organ toxicity (repeated xposure)	: Not classified
spiration hazard	: Not classified
otential adverse human health effects and ymptoms	: Based on available data, the classification criteria are not met.
ymptoms/injuries after inhalation	: May cause an allergic skin reaction.
ymptoms/injuries after skin contact	: Causes skin irritation.
symptoms/injuries after eye contact	: Causes serious eve damage.

### **SECTION 12: Ecological information**

12.1.	Toxicity	
EDTA	A; tetrasodium ethylenediaminetetrace	tate (64-02-8)
LC50	fish 1	121 mg/l (LC50; 96 h)
EC50	) Daphnia 1	625 mg/l (EC50; 24 h)
Three	shold limit algae 1	> 100 mg/l (EC0; 72 h)

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D-limonene (5989-27-5)	
LC50 fish 1	720 μg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Pimephales promelas; Flow- through system; Fresh water; Experimental value)
EC50 Daphnia 1	0.36 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
Threshold limit algae 1	150 mg/l (EC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Desmodesmus subspicatus; Static system; Fresh water; Read-across)
TKPP tetrapotassium pyrophosphate, anh	ydrous (7320-34-5)
LC50 fish 1	> 750 mg/l (LC50; 48 h)
disodium metasilicate, pentahydrate (1021	3-79-3)
LC50 fish 1	210 mg/l (LC50; 96 h)
EC50 Daphnia 1	216 mg/l (EC50; 96 h)
12.2. Persistence and degradability	
SUPER-O CITRUS DEGREASER	
Persistence and degradability	Not established.
EDTA; tetrasodium ethylenediaminetetrac	etate (64-02-8)
Persistence and degradability	Not readily biodegradable in water. Not established.
Biochemical oxygen demand (BOD)	< 0.002 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	0.54 - 0.58 g O <sub>2</sub> /g substance
D-limonene (5989-27-5)	
Persistence and degradability	Readily biodegradable in water. Forming sediments in water. Adsorbs into the soil. Not established.
ThOD	3.29 g O₂/g substance
TKPP tetrapotassium pyrophosphate, anh	ydrous (7320-34-5)
Persistence and degradability	Biodegradability: not applicable. Not established.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
sodium xylenesulfonate (1300-72-7)	
Persistence and degradability	Biodegradability in water: no data available. Not established.
disodium metasilicate, pentahydrate (1021	3-79-3)
Persistence and degradability	Biodegradability: not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
2.3. Bioaccumulative potential	
SUPER-O CITRUS DEGREASER	
Bioaccumulative potential	Not established.
EDTA; tetrasodium ethylenediaminetetrac	
Log Pow	-2.6
Bioaccumulative potential	Bioaccumulation: not applicable. Not established.
D-limonene (5989-27-5)	
BCF fish 1	864.8 - 1022 (BCF; Pisces)
Log Pow	<ul> <li>4.38 (Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method; 37 °C)</li> </ul>
Bioaccumulative potential	Potential for bioaccumulation ( $4 \ge Log$ Kow $\le 5$ ). Not established.
TKPP tetrapotassium pyrophosphate, anh	
Bioaccumulative potential	Bioaccumulation: not applicable. Not established.
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sodium xylenesulfonate (1300-72-7)				
Bioaccumulative potential	No bioaccumula	ation data available. Not establish	ed.	
disodium metasilicate, pentahydrate (102	213-79-3)			
Bioaccumulative potential	No bioaccumula	ation data available.		
12.4. Mobility in soil				
D-limonene (5989-27-5)				
Log Koc	Koc,SRC PCKC	) CWIN v2.0; 1120 - 6324; QSAR		
12.5. Other adverse effects				
Effect on the global warming	: No known ecol	ogical damage caused by this pro	duct.	
Other information	: Avoid release to	o the environment.		
SECTION 13: Disposal considerat	ions			
13.1. Waste treatment methods Waste disposal recommendations	· Dispose in a sa	fe manner in accordance with loc	al/national regulations	
Additional information	<ul> <li>Dispose in a safe manner in accordance with local/national regulations.</li> <li>Handle empty containers with care because residual vapours are flammable.</li> </ul>			
Ecology - waste materials	: Avoid release to the environment.			
SECTION 14: Transport information	on			
Department of Transportation (DOT)				
n accordance with DOT				
Not regulated for transport				
Additional information				
Other information	: No supplement	ary information available.		
ADR				
No additional information available				
Transport by sea	1001			
JN-No. (IMDG)				
Proper Shipping Name (IMDG)				
Class (IMDG) Packing group (IMDG)	: 8 - Corrosive substances : III - substances presenting low danger			
	. III - SUDSIGHCES	presenting iow danger		
Air transport				
UN-No. (IATA)	: 1824			
Proper Shipping Name (IATA)	: Sodium hydroxide solution			
Class (IATA)	: 8 - Corrosives			
Packing group (IATA)	: III - Minor Dang	er		
SECTION 15: Regulatory informat	ion			
15.1. US Federal regulations				
SUPER-O CITRUS DEGREASER				
Not listed on the United States TSCA (Toxic	Substances Control A	ct) inventory		
All components of this product are listed, or Substances Control Act (TSCA) inventory e		on the United States Environmen	tal Protection Agency Toxic	
TSP trisodium orthophosphate, dodecahyd		CAS No 10101-89-0		
disodium metasilicate, pentahydrate			4 - 6	
disodium metasilicate, pentahydrateCAS No 10213-79-34 - 6This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40				

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

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#### 15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP] No additional information available

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD] Not classified

National regulations No additional information available

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

<b>SECTION 16: Other inf</b>	formation	
Revision date	: 05/06/2015	
Other information	: None.	

Full text of H-phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Flam. Liq. 3	Flammable liquids, Category 3
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H226	Flammable liquid and vapour
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

NFPA health hazard

: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard

NFPA reactivity

- : 0 Materials that will not burn.
- : 1 Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.



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: 1 Slight Hazard - Irritation or minor reversible injury possible
: 0 Minimal Hazard - Materials that will not burn
: 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.
: B
B - Safety glasses, Gloves

SDS US (GHS HazCom 2012)

No representation or warranty, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature, is made with respect to information concerning the product referred to in this document. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, it is impossible to foresee every health effect or exposure risk incurred by the use of this product. All chemicals present some degree of hazard and should be used with caution. The information and recommendations contained herein are presented in good faith. The user should review this information in conjunction with their knowledge of the application intended to determine the suitability of this product for such purpose. In no event will the supplier be responsible for any damages of any nature whatsoever, resulting from the use, reliance upon, or the misuse of this information. Furthermore, it is the direct responsibility of the user to comply with all applicable regulations governing the use and disposal of this material.