

SAFETY DATA SHEET

Supersedes Date: 18 Apr 2017

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Version: 2.0

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Label Name	Citrus Solv II
Other means of identification	_
UPC Code(s)	Not applicable
Product code	16215372
Synonyms	None

Recommended use of the chemical and restrictions on use

Recommended Use	General degreaser – Citrus-based cleaning booster and fragrance additive.		
Uses advised against	Follow label instructions.	Not recommended for any use except intended use.	

Manufacturer Address

4282 South 590 West

Salt Lake City, UT 84123

Aramsco Inc.

USA

Supplier's details

Supplier Address

Aramsco Inc. 4282 South 590 West Salt Lake City, UT 84123 USA

Emergency telephone number

Company Phone Number Company Emergency Phone Number Emergency telephone

1-800-658-5314 United States: 1-800-535-5053 (INFOTRAC – 24 hours, 7 days a week) International: 1-352-323-3500 (INFOTRAC – 24 hours, 7 days a week) Poison Control 1-800-222-1222 (24 hour)

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1

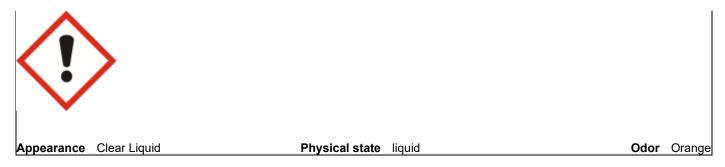
GHS Label elements, including precautionary statements

Emergency Overview

Warning

Hazard Statements

Causes skin irritation Causes serious eye irritation May cause an allergic skin reaction



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Contaminated work clothing should not be allowed out of the workplace

Precautionary Statements - Response

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. IF ON SKIN: Wash with plenty of soap and water If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Other information

- · Harmful to aquatic life with long lasting effects
- · Harmful to aquatic life
- Avoid release to the environment General Hazards

Keep out of reach of children Please see Section 11. Toxicological Information for further information

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Trade Secret
D-Limonene	5989-27-5	10 - 20	*
Diethylene glycol monobutyl ether	112-34-5	>60	*
Alcohols, C9-11, ethoxylated	68439-46-3	1 - 5	*
Alcohols, C12-15, ethoxylated	68131-39-5	1 - 5	*

*The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES

First aid measures for different exposure routes

General adviceIf symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do
not get in eyes, on skin, or on clothing.Eye contactImmediately flush with plenty of water. Rinse thoroughly with plenty of water for at least 15
minutes and consult a physician. After initial flushing, remove any contact lenses and
continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms
persist, call a physician.

Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Remove and wash contaminated clothing before re-use. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Immediate medical attention is not required.		
Toxic - Inhalation	Move to fresh air. Consult a physician. If breathing is irregular or stopped, administer artificial respiration. Use barrier to give mouth-to-mouth resuscitation. Immediate medical attention is not required. If symptoms persist, call a physician.		
Ingestion	Rinse mouth. Drink plenty of water. If symptoms persist, call a physician. Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person.		
Protection of First-aiders	Use personal protective equipment.		
Most important symptoms/effects, acute and delayed			
Main Symptoms	No information available.		
Indication of immediate medical attention and special treatment needed, if necessary			
Notes to physician	Treat symptomatically.		

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use:. Dry chemical. Carbon dioxide (CO 2). Water spray. Alcohol-resistant foam.

Unsuitable Extinguishing Media Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion No information available. Products

Explosion Data Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Protective Equipment and Precautions for Firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautionsUse personal protective equipment. Remove all sources of ignition. Evacuate personnel to
safe areas. Keep people away from and upwind of spill/leak. Pay attention to flashback.
Take precautionary measures against static discharges.

Advice for emergency responders For personal protection see section 8.

Environmental precautions

Environmental precautions	Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.					
Methods and materials for containm	Methods and materials for containment and cleaning up					
Methods for Containment	Prevent further leakage or spillage if safe to do so.					
Methods for cleaning up	Cover liquid spill with sand, earth or other noncombustible absorbent material. Cover powder spill with plastic sheet or tarp to minimize spreading. Pick up and transfer to properly labeled containers. Soak up with inert absorbent material. Dam up. Take precautionary measures against static discharges.					

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling	Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Remove and wash contaminated clothing before re-use. Do not breathe vapors or spray mist. Do not eat, drink or smoke when using this product. Use only in area provided with appropriate exhaust ventilation. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from heat, sparks and open flame. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).			
Conditions for safe storage, including any incompatibilities				

Technical measures/Storage conditions	Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat and sources of ignition. Keep in properly labeled containers. Keep away from heat.	
Packaging material	Keep product in packaging product is initially sold in.	
Incompatible products	None known based on information supplied.	

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

	Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Γ	Diethylene glycol monobutyl ether	TWA: 10 ppm inhalable fraction		
	112-34-5	and vapor		

NIOSH IDLH: Immediately Dangerous to Life or Health

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Other Exposure Guidelines	Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).		
Appropriate engineering controls			
Engineering Measures	Showers Eyewash stations Ventilation systems.		
Individual protection measures, such as personal protective equipment			
Eye/Face Protection	Tightly fitting safety goggles. Face-shield.		
Skin and body protection	No special protective equipment required.		

Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.		
Hygiene measures	Provide regular cleaning of equipment, work area and clothing. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use.		
9. PHYSICAL AND CHEMICAL PROPERTIES			
Physical and chemical properti	es		

Physical state Appearance Color

Property	<u>Values</u>
pH	No information available
Melting point	No information available
Boiling point/boiling range	>100 °C / 212 °F
Flash Point	No information available
Evaporation rate	Same as water
Flammability (solid, gas)	No information available
Flammability Limits in Air	
Upper Flammability Limit	No information available
Lower Flammability Limit	No information available
Vapor pressure	1.8
Vapor density	4.9
Specific Gravity	0.950
Water solubility	Miscible in water
Solubility in other solvents	No information available
Partition coefficient: n-octanol/wate	rNo information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Viscosity, kinematic	No information available
Viscosity, dynamic	No information available
Explosive properties	No information available
Oxidizing Properties	No information available
Other information	
Softening point	No information available
Molecular weight	No information available
VOC Content(%)	No information available
Density VALUE	No information available
Bulk Density VALUE	No information available

liquid Clear Liquid

colorless

Odor Ora Odor threshold No

Orange No information available

Remarks • Method 7.0 - 8.0

54 °C / 135 °F

Reactivity

<u>Chemical stability</u> Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Hazardous Polymerization

None under normal processing.

<u>Conditions to Avoid</u> Heat, flames and sparks. **10. STABILITY AND REACTIVITY**

Incompatible Materials

None known based on information supplied.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Toxic - Inhalation	May be harmful if inhaled. Avoid breathing vapors or mists.
Eye contact	Risk of serious damage to eyes. Avoid contact with eyes.
Skin contact	Irritating to skin. Avoid contact with skin.
Ingestion	May be harmful if swallowed.

Chemical Name Oral LD50		Dermal LD50	Inhalation LC50
Orange Terpenes 5989-27-5	= 4400 mg/kg (Rat)	> 5 g/kg (Rabbit)	
ALCOHOLS, C9-11, ETHOXYLATED 68439-46-3	1400 mg/kg (Rat)	>2 g/kg (Rabbit)	
2-(2-Butoxyéthoxy)éthanol 112-34-5	= 5660 mg/kg (Rat)	= 2700 mg/kg (Rabbit)	

Information on toxicological effects

Symptoms

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Eye damage/irritation Sensitization Germ Cell Mutagenicity Carcinogenicity	No informatic No informatic No informatic No informatic The table bel	on available. on available.	agency has listed any in	gredient as a carcinogen.	
Chemical Name	ACGIH	IARC	NTP	OSHA	
Orange Terpenes 5989-27-5	-	Group 3	-	X	
5989-27-5 OSHA (Occupational Safety and Health Administration of the US Department of Labor) X - Present IARC: (International Agency for Research on Cancer) Group 3 - Not Classifiable as to Carcinogenicity in Humans Reproductive toxicity No information available. Developmental Toxicity No information available. STOT - single exposure No information available. STOT - repeated exposure No information available. Chronic toxicity Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure.					
Target Organ EffectsEyes, Respiratory system, Skin, Central nervous system.Aspiration hazardNo information available.					

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) >5000 mg/kg

ATEmix (dermal)

>5000 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

0.72% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Orange Terpenes 5989-27-5		0.619 - 0.796: 96 h Pimephales promelas mg/L LC50 flow-through	
3303-27-3		35: 96 h Oncorhynchus mykiss mg/L LC50	
Diethylene glycol monobutyl ether 112-34-5	100: 96 h Desmodesmus subspicatus mg/L EC50	1300: 96 h Lepomis macrochirus mg/L LC50 static	100: 48 h Daphnia magna mg/L EC50 2850: 24 h Daphnia magna mg/L EC50

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment

Waste Disposal Methods	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging	Do not re-use empty containers.
US EPA Waste Number	None

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Orange Terpenes 5989-27-5	Тохіс

14. TRANSPORT INFORMATION

 DOT
 Not regulated

 IMDG
 Not regulated

IATA Not regulated

15. REGULATORY INFORMATION

International	Inventories
TSCA	
DSL/NDSL	

Complies Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory **DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

<u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories	
Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65

This product can expose you to chemicals including Acetaldehyde and Myrcene, which are known to the State of California to cause cancer, and Methanol and Ethylene Glycol which are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
None			

U.S. EPA Label information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION					
NFPA	Health hazard 2	Flammability	1	Instability 0	Physical and chemical hazards -
HMIS	Health hazard 2	Flammability	1	Physical Hazard 0	Personal protection X
Prepared By Aramsco Environmental Health & Safety Manager					
Revision Date	, ,				
Revision Note					
13 Feb 2023 – Update Prop 65 Warning					

Disclaimer

The (M)SDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered by Bridgewater LLC to be dependable and is accurate to the best of the Company's knowledge. It is not meant to be an all-inclusive document on worldwide hazard communication regulations.

This information is offered in good faith. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment. Bridgewater LLC assumes no responsibility for injury to the recipient of third persons, or for any damage to any property resulting from misuse of the product.

End of Material Safety Data Sheet