

SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

1. Identification

Product identifier: NATURAL CITRUS DEGREASER & DEODORANT - SW-487

Other means of identification SDS number: RE1000040363

Recommended restrictions Recommended use: Cleaner Restrictions on use: Not known.

Manufacturer/Importer/Distributor Information

Manufacturer	
Company Name:	Sprayway, Inc.
Address:	1000 INTEGRAM DR.
	Pacific, MO 63069
	US
Telephone:	1-630-628-3000

Emergency telephone number: 1-866-836-8855

2. Hazard(s) identification

Hazard Classification

Flammable aerosol	Category 1
Health Hazards	
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 1
Skin sensitizer	Category 1

Environmental Hazards

Acute hazards to the aquatic environment	Category 1
Chronic hazards to the aquatic environment	Category 1

Label Elements

Hazard Symbol:



Hazard Statement:	Extremely flammable aerosol. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Very toxic to aquatic life with long lasting effects.
Precautionary Statements	
Prevention:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Wash 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. Avoid release to the environment.
Response:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN: Wash with plenty of water If skin irritation or rash occurs: Get medical advice/attention. Immediately call a POISON CENTER/doctor. Specific treatment (see on this label). Wash contaminated clothing before reuse. Collect spillage.
Storage:	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
Disposal:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Hazard(s) not otherwise classified (HNOC):	None.

3. Composition/information on ingredients

Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-	5989-27-5	50 - <100%
Poly(oxy-1,2-ethanediyl), .alpha(nonylphenyl)omegahydroxy-, branched	68412-54-4	10 - <20%
Alcohols, C9-11, ethoxylated	68439-46-3	5 - <10%
Carbon dioxide	124-38-9	1 - <5%
1,6-Octadiene, 7-methyl-3-methylene-	123-35-3	1 - <5%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

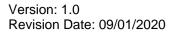
The exact concentration has been withheld as a trade secret.

4. First-aid measures

Description of necessary first-aid measures

Inhalation: Move to fresh air.

Skin Contact:Get medical attention. Destroy or thoroughly clean contaminated
shoes. Immediately remove contaminated clothing and shoes and
wash skin with soap and plenty of water. If skin irritation or an allergic
skin reaction develops, get medical attention.





Eye contact:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Call a physician or poison control center immediately.	
Ingestion:	Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.	
Personal Protection for First- aid Responders:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.	
Most important symptoms/effect	cts, acute and delayed	
Symptoms:	No data available.	
Hazards:	No data available.	
Indication of immediate medica	I attention and special treatment needed	
Treatment:	Symptoms may be delayed.	
5. Fire-fighting measures		
General Fire Hazards:	Use water spray to keep fire-exposed containers cool. Fight fire from a protected location. Move containers from fire area if you can do so without risk.	
Suitable (and unsuitable) exting	guishing media	
Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.	
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.	
Specific hazards arising from the chemical:	Vapors may travel considerable distance to a source of ignition and flash back.	
Special protective equipment a	nd precautions for firefighters	
Special fire fighting procedures:	No data available.	
Special protective equipment for fire-fighters:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.	
6. Accidental release measure	es	
Personal precautions, protective equipment and emergency procedures:	Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind. See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.	
Accidental release measures:	Prevent entry into waterways, sewer, basements or confined areas. Stop	

Accidental release measures: Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk.



Methods and material for containment and cleaning up:	Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.	
Environmental Precautions:	Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid release to the environment.	
7. Handling and storage		
Handling		
Technical measures (e.g. Local and general ventilation):	No data available.	
Safe handling advice:	Wash hands thoroughly after handling. Do not get in eyes. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid contact with skin. Avoid contact with eyes, skin, and clothing.	
Contact avoidance measures:	No data available.	
Storage		
Safe storage conditions:	Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.Aerosol Level 3	
Safe packaging materials:	No data available.	
Storage Temperature:	No data available.	

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Туре	Exposure Li	mit Values	Source
Carbon dioxide	TWA	5,000 ppm		US. ACGIH Threshold Limit Values, as amended
	STEL	30,000 ppm		US. ACGIH Threshold Limit Values, as amended
	STEL	30,000 ppm	54,000 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	REL	5,000 ppm	9,000 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	PEL	5,000 ppm	9,000 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	TWA	10,000 ppm	18,000 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	STEL	30,000 ppm	54,000 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Bicyclo[3.1.1]hept-2-ene, 2,6,6-trimethyl-	TWA	20 ppm		US. ACGIH Threshold Limit Values, as amended
Bicyclo[3.1.1]heptane, 6,6- dimethyl-2-methylene-	TWA	20 ppm		US. ACGIH Threshold Limit Values, as amended
Oxirane	Ceil_Time	5 ppm	9 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	TWA	1 ppm		US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended
	STEL	5 ppm		US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended
	OSHA_ACT	0.5 ppm		US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended
	REL	0.1 ppm	0.18 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended



	TWA	1 ppm		US. ACGIH Threshold Limit Values, as amended
	TWA	1 ppm		US. OSHA Table Z-1-A (29 CFR 1910.1000), as
				amended
	STEL	5 ppm		US. OSHA Table Z-1-A (29 CFR 1910.1000), as
				amended
1,4-Dioxane	TWA	25 ppm	90 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as
				amended
	Ceil_Time	1 ppm	3.6 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as
				amended
	TWA	20 ppm		US. ACGIH Threshold Limit Values, as amended
	PEL	100 ppm	360 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants
			-	(29 CFR 1910.1000), as amended

Biological Limit Values

Chemical Identity	Exposure Limit Values	Source
Oxirane (N-(2-hydroxyethyl)-valine (HEV) hemoglobin adducts: Sampling time: Not critical.)	5000 pmol/g (Hemoglobin adducts)	ACGIH BEL
Oxirane (S-(2-hydroxyethyl) mercapturic acid (HEMA): Sampling time: End of shift.)	5 μg/g (Creatinine in urine)	ACGIH BEL

Exposure guidelines

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	1,4-Dioxane	US. ACGIH Threshold Limit Values, as amended	Can be absorbed through the skin.		
Appropriate Engineering No data available. Controls No data available.					
Individual protection measures, such as personal protective equipment					
Eye/	face protection:	Wear a full-face respirator, if needed	Wear safety glasses with side shields		

	(or goggles) and a face shield.
Skin Protection Hand Protection:	No data available.
Skin and Body Protection:	Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.
Respiratory Protection:	In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.
Hygiene measures:	Do not get in eyes. Observe good industrial hygiene practices. When using do not smoke. Wash contaminated clothing before reuse. Avoid contact with skin. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Appearance	
Physical state:	liquid
Form:	Spray Aerosol
Color:	No data available.
Odor:	No data available.
Odor Threshold:	No data available.
pH:	No data available.
Freezing point:	No data available.
Boiling Point:	No data available.
Flash Point:	> 43 °C



Evaporation Rate:	No data available.
Flammability (solid, gas):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density (air=1):	No data available.
Density:	No data available.
Relative density:	No data available.
Solubility in Water:	No data available.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Self Ignition Temperature:	No data available.
Decomposition Temperature:	No data available.
Kinematic viscosity:	No data available.
Dynamic viscosity:	No data available.
Explosive properties:	No data available.
Oxidizing properties:	No data available.

10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	Avoid heat or contamination.
Incompatible Materials:	No data available.
Hazardous Decomposition Products:	No data available.

11. Toxicological information

Information on likely routes of e Inhalation:	xposure No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.
Symptoms related to the physic Inhalation:	al, chemical and toxicological characteristics No data available.
Inhalation:	No data available.



Information on toxicological effects

Acute toxicity (list all possible routes of exposure) Oral		
Product:	ATEmix: 7,728.09 mg/kg	
Dermal Product:	Not classified for acute toxicity based on available data.	
Inhalation Product:	Not classified for acute toxicity based on available data.	
Repeated dose toxicity Product:	No data available.	
Components: Cyclohexene, 1-methyl-4- (1-methylethenyl)-, (4R)- Poly(oxy-1,2-ethanediyl), .alpha(nonylphenyl)- .omegahydroxy-,	NOAEL (Rat(Male), Oral, 13 Weeks): 600 mg/kg Oral Experimental result, Key study NOAEL (Rat(Female, Male), Oral, 90 d): 50 mg/kg Oral Read-across from supporting substance (structural analogue or surrogate), Weight of Evidence study	
branched Alcohols, C9-11, ethoxylated 1,6-Octadiene, 7-methyl- 3-methylene-	NOAEL (Rat(Female, Male), Oral, 90 d): >= 500 mg/kg Oral Read-across based on grouping of substances (category approach), Key study LOAEL (Rat(Female, Male), Oral, 14 Weeks): 250 mg/kg Oral Experimental result, Key study NOAEL (Mouse(Female), Oral, 14 Weeks): 250 mg/kg Oral Experimental result, Key study	
Skin Corrosion/Irritation Product:	No data available.	
Components: Cyclohexene, 1-methyl- 4-(1-methylethenyl)-, (4R)- Poly(oxy-1,2- ethanediyl), .alpha	in vivo (Rabbit): Not irritant in vivo (Rabbit): Irritating.	
(nonylphenyl)omega hydroxy-, branched Alcohols, C9-11, ethoxylated 1,6-Octadiene, 7- methyl-3-methylene-	in vivo (Rabbit): Not irritant In vitro (Human): Irritating	
Serious Eye Damage/Eye Irritation Product:	on No data available.	
Components: Cyclohexene, 1-methyl- 4-(1-methylethenyl)-, (4R)-	Rabbit, 24 - 72 hrs: Not irritating	
Poly(oxy-1,2- ethanediyl), .alpha (nonylphenyl)omega hydroxy-, branched	Rabbit, 24 - 72 hrs: Irritating.	
1,6-Octadiene, 7- methyl-3-methylene-	Irritating Rabbit, 24 - 72 hrs: Category 2	



Respiratory or Skin Sensitization

Product: No data available.

Components:

Poly(oxy-1,2-

Skin sensitization:, in vivo (Guinea pig): Non sensitising ethanediyl), .alpha.-(nonylphenyl)-.omega.hydroxy-, branched

Carcinogenicity Product:

No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens: No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended: No carcinogenic components identified

Germ Cell Mutagenicity

In vitro Product:	No data available.
In vivo Product:	No data available.
Reproductive toxicity Product:	No data available.
Specific Target Organ Toxic Product:	ity - Single Exposure No data available.
Specific Target Organ Toxic Product:	ity - Repeated Exposure No data available.
Aspiration Hazard Product:	No data available.
Other effects:	No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic e Fish	environment:
Product:	No data available.
Components: Cyclohexene, 1-methyl-4- (1-methylethenyl)-, (4R)-	EC 50 (Pimephales promelas, 96 h): 688 μ g/l Experimental result, Key study
Poly(oxy-1,2-ethanediyl), .alpha(nonylphenyl)- .omegahydroxy-, branched	LC 50 (Pimephales promelas, 96 h): 0.323 mg/l Experimental result, Key study



Aquatic Invertebrates Product:	No data available.
Components: Cyclohexene, 1-methyl-4- (1-methylethenyl)-, (4R)-	EC 50 (Daphnia magna, 48 h): 0.36 mg/l Experimental result, Key study NOAEL (Daphnia magna, 48 h): 0.074 mg/l Experimental result, Key study
Poly(oxy-1,2-ethanediyl), .alpha(nonylphenyl)- .omegahydroxy-, branched	LC 50 (Ceriodaphnia dubia, 48 h): 0.716 mg/l Experimental result, Key study
Chronic hazards to the aquatic Fish	environment:
Product:	NOEC : Estimated < 0.1 mg/l
Aquatic Invertebrates Product:	No data available.
Components: Cyclohexene, 1-methyl-4- (1-methylethenyl)-, (4R)-	NOAEL (Freshwater invertebrates, species frequently include Daphnia magna or Daphnia pulex): 0.115 mg/l QSAR QSAR, Weight of Evidence study
Poly(oxy-1,2-ethanediyl), .alpha(nonylphenyl)- .omegahydroxy-, branched	NOAEL (Daphnia magna): 100 µg/l Experimental result, Key study
Alcohols, C9-11, ethoxylated	NOAEL (Daphnia magna): 1.75 mg/l Read-across based on grouping of substances (category approach), Weight of Evidence study
Toxicity to Aquatic Plants Product:	No data available.
Persistence and Degradability Biodegradation Product:	No data available.
Components: Cyclohexene, 1-methyl-4- (1-methylethenyl)-, (4R)-	80 % (28 d) Detected in water. Read-across from supporting substance (structural analogue or surrogate), Key study
Poly(oxy-1,2-ethanediyl), .alpha(nonylphenyl)- .omegahydroxy-, branched	58.7 % (35 d) Detected in water. Read-across from supporting substance (structural analogue or surrogate), Key study
Alcohols, C9-11, ethoxylated	100 % (28 d) Detected in water. Read-across based on grouping of substances (category approach), Weight of Evidence study
1,6-Octadiene, 7-methyl- 3-methylene-	76 % (28 d) Detected in water. Experimental result, Key study
BOD/COD Ratio Product:	No data available.
Bioaccumulative potential Bioconcentration Factor (BC Product:	F) No data available.

Product:



Components: Cyclohexene, 1-methyl-4- (1-methylethenyl)-, (4R)-	Bioconcentration Factor (BCF): 864.8 Aquatic see	diment QSAR, Key study
Poly(oxy-1,2-ethanediyl), .alpha(nonylphenyl)- .omegahydroxy-, branched	Various, Bioconcentration Factor (BCF): 37 Aqua result, Key study	tic sediment Experimental
Alcohols, C9-11, ethoxylated	Pimephales promelas, Bioconcentration Factor (E Read-across from supporting substance (structur Key study	
Partition Coefficient n-octanol / w Product:	vater (log Kow) No data available.	
Components: Cyclohexene, 1-methyl-4- (1-methylethenyl)-, (4R)-	Log Kow: 4.34 - 4.46 25 °C No Experimental resu	ult, Supporting study
Poly(oxy-1,2-ethanediyl), .alpha(nonylphenyl)- .omegahydroxy-, branched	Log Kow: 4.03 - 4.39 20.5 °C No Experimental re	sult, Supporting study
Alcohols, C9-11, ethoxylated	Log Kow: 3.3 - 3.73 Yes QSAR, Weight of Evider	nce study
Mobility in soil:	No data available.	
Components: Cyclohexene, 1-methyl-4-(1 Poly(oxy-1,2-ethanediyl), .a Alcohols, C9-11, ethoxylate Carbon dioxide 1,6-Octadiene, 7-methyl-3-	Ilpha(nonylphenyl)omegahydroxy-, branched	No data available. No data available. No data available. No data available. No data available.
Other adverse effects:	Very toxic to aquatic life with long lasting effects.	
13. Disposal considerations		
Disposal instructions:	Discharge, treatment, or disposal may be subject laws. Do not allow to enter drains, sewers or wate	
Contaminated Packaging:	No data available.	
14. Transport information		
DOT		
UN Number:	UN 1950	
UN Proper Shipping Name:	Aerosols, flammable	
Transport Hazard Class(es)	0.4	
Class: Label(s):	2.1	
EmS No.:	_	
Packing Group:	П	
Special precautions for user:	Not regulated.	



IATA UN Number: UN Proper Shipping Name: Transport Hazard Class(es): Class: Label(s):	UN 1950 Aerosols, flammable 2.1 –
Packing Group: Special precautions for user: Other information Passenger and cargo aircraft: Cargo aircraft only:	– Not regulated. Allowed. 203 Allowed. 203
IMDG UN Number: UN Proper Shipping Name: Transport Hazard Class(es) Class: Label(s): EmS No.: Packing Group: Special precautions for user:	UN 1950 Aerosols, flammable 2 - F-D, S-U - Not regulated.

15. Regulatory information

US Federal Regulations

Restrictions on use: Not known.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended

Chemical Identity	OSHA hazard(s)
Oxirane	Skin sensitization
	Acute toxicity
	Cancer
	Reproductive toxicity
	Mutagenicity
	Central nervous system
	Eye irritation
	respiratory tract irritation
	Skin irritation
	Flammability

CERCLA Hazardous Substance List (40 CFR 302.4):

<u>Chemical Identity</u> RCRA HAZARDOUS WASTE NO. D001 ETHYLENE OXIDE OXIRANE 1,4-DIETHYLENEOXIDE

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Flammable aerosol, Skin Corrosion/Irritation, Serious Eye Damage/Eye Irritation, Skin sensitizer



US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

US State Regulations

US. California Proposition 65

For more information go to www.P65Warnings.ca.gov.

US. New Jersey Worker and Community Right-to-Know Act <u>Chemical Identity</u> Cyclobayana, 1 method 4 (1 methylothanyd), (4P)

Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-Carbon dioxide

US. Massachusetts RTK - Substance List

No ingredient regulated by MA Right-to-Know Law present.

US. Pennsylvania RTK - Hazardous Substances Chemical Identity

Carbon dioxide

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

International regulations

Montreal protocol

Not applicable

Stockholm convention

Not applicable

Rotterdam convention Not applicable

Kyoto protocol



Inventory Status: Canada DSL Inventory List	On or in compliance with the inventory
EINECS, ELINCS or NLP	Not in compliance with the inventory.
Japan (ENCS) List	Not in compliance with the inventory.
China Inv. Existing Chemical Substances	On or in compliance with the inventory
Canada NDSL Inventory	Not in compliance with the inventory.
Philippines PICCS	On or in compliance with the inventory
US TSCA Inventory	On or in compliance with the inventory
New Zealand Inventory of Chemicals	On or in compliance with the inventory
Japan ISHL Listing	Not in compliance with the inventory.
Japan Pharmacopoeia Listing	Not in compliance with the inventory.
Mexico INSQ	Not in compliance with the inventory.
Ontario Inventory	Not in compliance with the inventory.
Taiwan Chemical Substance Inventory	On or in compliance with the inventory
Australia AICS	Not in compliance with the inventory.
Korea Existing Chemicals Inv. (KECI)	Not in compliance with the inventory.

16.Other information, including date of preparation or last revision

Issue Date:	09/01/2020
Revision Information:	No data available.
Version #:	1.0
Further Information:	No data available.
Disclaimer:	This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.