

Safety Data Sheet NATURALIZER EF AEROSOL

Supersedes Date 09/18/2013

Issuing Date 11/23/2016

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name NATURALIZER EF AEROSOL

Recommended use Solvent

Information on Manufacturer

CHEMSEARCH DIV. OF NCH CORP.

BOX 152170

IRVING, TX 75015

Product Code 5505

Chemical nature Solvent mixture

Emergency Telephone Number

Telephone inquiry

972-579-2477

2. HAZARD IDENTIFICATION

Color Yellow-orange - Reddish-orange

Physical state Liquid

Odor Orange

GHS

Classification

Physical Hazards

Flammable Aerosols

Gases under pressure

Category 1

Compressed Gas

Health Hazard

Aspiration Toxicity

Acute Inhalation Toxicity - Gas

Acute toxicity - Inhalation (Dusts/Mists)

Skin Corrosion/Irritation

Serious Eye Damage/Eye Irritation

Respiratory Sensitization

Skin sensitization

Specific target organ systemic toxicity (single exposure)

Specific target organ toxicity (repeated exposure)

Category 1

Category 3

Category 4

Category 2

Category 2A

Category 1

Category 1

Category 3

Category 2

Other hazards

None

Labeling

Signal Word

DANGER



Hazard statements

H222 - Extremely flammable aerosol

H331 - Toxic if inhaled

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H335 - May cause respiratory irritation

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H304 - May be fatal if swallowed and enters airways

H373 - May cause damage to organs through prolonged or repeated exposure

H280 - Contains gas under pressure; may explode if heated

Precautionary Statements

P210 - Keep away from heat, sparks, open flames or hot surfaces.

P211 - Do not spray on an open flame or other ignition source

P251 - Pressurized container: Do not pierce or burn, even after use

P260 - Do not breathe vapors, mist or gas.

P271 - Use in a well-ventilated area.

P280 - Wear protective gloves, protective clothing and eye protection.

P272 - Contaminated work clothing should not be allowed out of the workplace

P264 - Wash face, hands and any exposed skin thoroughly after handling.

P304 + P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.

P342 + P311 - If experiencing respiratory symptoms, call a physician.

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P333 + P313 - If skin irritation or rash occurs, get medical attention

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists, get medical attention.

P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a physician if unwell.

P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

P403 + P235 - Store in a well-ventilated place. Keep cool.

P501 - Dispose of contents and container in accordance with applicable local regulations.

9 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No.	Weight %
D-Limonene	5989-27-5	60-100
Propane	74-98-6	7-13
Butane	106-97-8	1-5
Ethoxylated alcohols C9-16	71243-46-4	1-5
Alcohols, C9-11, ethoxylated	68439-46-3	1-5

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

4. FIRST AID MEASURES

General advice	Avoid breathing vapors, mist, or gas. Avoid contact with skin, eyes and clothing.
Eye Contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention if irritation develops and persists. Wash contaminated clothing before re-use.
Inhalation	Move to fresh air. If not breathing, give artificial respiration. In case of shortness of breath, give oxygen. Get medical attention immediately.
Ingestion	Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.
Notes to physician	Aspiration hazard if swallowed - can enter lungs and cause damage. May be fatal if swallowed and enters airways. May cause sensitization of susceptible persons.

5. FIRE-FIGHTING MEASURES

Flash Point 120 °F / 49 °C	Method Seta closed cup	
Flammability Limits in Air %: Mixture.	Upper: 9.5	Lower: 1.9
Suitable Extinguishing Media		
Foam. Alcohol-resistant foam. Dry chemical. Carbon dioxide (CO ₂). Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
Specific hazards arising from the chemical		
Extremely flammable. Solvent vapors are heavier than air and may spread along floors. Vapors may ignite and explode. Flame extension: 30 inches / 75 cm and Burnback: 3 inch / 7.5 cm. Material can create slippery conditions.		
Protective Equipment and Precautions for Firefighters		
As in any fire, wear self-contained breathing apparatus pressure-demand, NOHSC (approved or equivalent) and full protective gear.		
Aerosol Level (NFPA 30B) - 3		
NFPA	Health 2	Flammability 4
HMIS	Health 2	Flammability 4
		Instability 0
		Instability 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use personal protective equipment. Remove all sources of ignition. Ensure adequate ventilation. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.
Environmental Precautions	Do not flush into surface water or sanitary sewer system.
Methods for Containment	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
Methods for Cleaning Up	Use clean non-sparking tools to collect absorbed material. Pick up and transfer to properly labeled containers.
Neutralizing Agent	Not applicable.

7. HANDLING AND STORAGE

Handling	Keep away from open flames, hot surfaces and sources of ignition. Avoid breathing vapors, mist or gas. Avoid contact with skin, eyes and clothing.			
Storage	Keep away from open flames, hot surfaces and sources of ignition. Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place.			
Storage Temperature	Minimum	35 °F / 2 °C	Maximum	120 °F / 49 °C
Storage Conditions	Indoor	X	Outdoor	Heated
				Refrigerated

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
Propane	TWA: 1000 ppm	TWA: 1000 ppm TWA: 1800 mg/m ³	2100 ppm TWA: 1000 ppm TWA: 1800 mg/m ³
Butane	STEL: 1000 ppm	No data available	TWA: 800 ppm TWA: 1900 mg/m ³

Engineering Measures

Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Personal Protective Equipment

Eye/Face Protection

Tightly fitting safety goggles.

Skin Protection

Wear suitable protective clothing, Impervious gloves.

Respiratory Protection

In case of insufficient ventilation wear suitable respiratory equipment. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

General Hygiene Considerations

Wear protective gloves/clothing. Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid	Viscosity	Semi-viscous
Color	Yellow-orange - Reddish-orange	Odor	Orange
Odor Threshold	Not applicable	Appearance	Transparent
pH	Not applicable	Specific Gravity	0.779
Evaporation Rate	35.84 (BuAc = 1)	Percent Volatile (Volume)	100
VOC Content (%)	91.5	VOC Content (g/L)	712
Vapor Pressure	1,900 mmHg @ 70°F	Vapor Density	1.7 (Air = 1.0)
Solubility	Emulsifiable	n-Octanol/Water Partition	No data available
Melting Point/Range	No data available	Decomposition Temperature	No data available
Boiling Point/Range	180 °F / 82 °C	Flammability (solid, gas)	No data available
Flash Point	120 °F / 49 °C	Method	Seta closed cup
Autoignition Temperature	No information available.		
Flammability Limits in Air %:	Mixture	Upper: 9.5 Lower: 1.9	

10. STABILITY AND REACTIVITY

Chemical Stability	Stable. Hazardous polymerization does not occur.
Conditions to Avoid	Keep away from open flames, hot surfaces, and sources of ignition.
Incompatible Products	Strong oxidizing agents, Strong acids, Strong bases, Copper alloys.
Decomposition Temperature	No data available
Hazardous Decomposition Products	Carbon oxides, Hydrocarbons, Aldehydes.
Possibility of Hazardous Reactions	None under normal processing.

11. TOXICOLOGICAL INFORMATION

Product Information No information available.

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

Oral LD50	No information available
Dermal LD50	No information available
Inhalation LC50	
Gas	No information available
Mist	No information available
Vapor	No information available

Principle Route of Exposure

Eye contact, Skin contact, Inhalation.

Primary Routes of Entry

Skin contact, Skin Absorption.

Acute Effects:

Eyes

Causes serious eye irritation.

Skin

Causes skin irritation. May cause allergic skin reaction.

Inhalation

May cause irritation of respiratory tract. Inhalation may cause central nervous system effects. May cause central nervous system depression. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. May cause allergic respiratory reaction.

Ingestion

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration hazard if swallowed - can enter lungs and cause damage. May be fatal if swallowed and enters airways.

Chronic Toxicity
Target Organ Effects
Aggravated Medical Conditions
 Component Information

May cause sensitization by skin contact. May cause sensitization by inhalation.
 Respiratory system, Central nervous system, Immune system.
 Respiratory disorders, Skin disorders, Neurological disorders.

Acute Toxicity

Component	Oral LD50	Dermal LD50	Inhalation LC50	Draize Test	Other
D-Limonene 5989-27-5	= 4400 mg/kg (Rat)	> 5 g/kg (Rabbit)	No data available	No data available	No data available
Propane 74-98-6	No data available	no data available	= 658 mg/L (Rat) 4 h	No data available	No data available
Butane 106-97-8	No data available	no data available	= 658 g/m ³ (Rat) 4 h	No data available	No data available
Alcohols, C9-11, ethoxylated 68439-46-3	= 1400 mg/kg (Rat)	no data available	No data available	No data available	No data available

Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
D-Limonene 5989-27-5	No data available	Skin sensitization	No data available	No data available	Immune system
Propane 74-98-6	No data available	No data available	No data available	No data available	Central nervous system
Butane 106-97-8	No data available	No data available	No data available	No data available	Central nervous system

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	ACGIH	IARC	NTP	OSHA	Other
D-Limonene 5989-27-5	not applicable	Group 3	not applicable	not applicable	not applicable

12. ECOLOGICAL INFORMATION

Product Information

No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Crustacea	Partition coefficient
D-Limonene	No information available.	LC50 0.619 - 0.796 mg/L Pimephales promelas 96 h LC50 = 35 mg/L Oncorhynchus mykiss 96 h	No information available	No information available.	N/A
Propane	No information available.	No information available.	No information available	No information available.	2.3
Butane	No information available.	No information available.	No information available	No information available.	2.89

Persistence and Degradability
Bioaccumulation
Mobility

No information available.
 No information available.
 No information available.

13. DISPOSAL CONSIDERATIONS

Product Disposal

Dispose of in accordance with local regulations.

Container Disposal

Contents under pressure. Do not puncture. Empty remaining contents. Empty containers should be taken for local recycling, recovery, or waste disposal.

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name Consumer Commodity
Hazard Class ORM-D
Description Consumer Commodity, ORM-D

TDG

Proper shipping name Aerosols
Hazard Class 2.1
UN-No UN1950
Description UN1950, AEROSOLS, 2.1, LTD. QTY.

ICAO

UN-No UN1950
Proper Shipping Name Aerosols, flammable

Hazard Class 2.1
Shipping Description UN1950, Aerosols, flammable, 2.1, LTD. QTY.

IATA

UN-No UN1950
Proper Shipping Name Aerosols, flammable
Hazard Class 2.1
ERG-Code 10L
Shipping Description UN1950, Aerosols, flammable, 2.1, LTD. QTY.

IMDG/IMO

Proper Shipping Name Aerosols
Hazard Class 2.1
UN-No UN1950
EmS No. F-D, S-U
Description UN1950, Aerosols, 2.1, LTD. QTY.

15. REGULATORY INFORMATION

Inventories

TSCA Complies
DSL Complies

U.S. Federal Regulations**SARA 313**

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 Hazardous Categorization

Acute Health Hazard	Chronic Health Hazard	Fire Hazard	Sudden Release of Pressure Hazard	Reactive Hazard
Yes	Yes	Yes	Yes	No

CERCLA

16. OTHER INFORMATION

Prepared By Adrienne McKee
Supersedes Date 09/18/2013
Issuing Date 11/23/2016
Reason for Revision No information available.
Glossary No information available.
List of References. No information available.

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