

SAFETY DATA SHEET

This SDS Complies With 29 CFR 1910.1200 (The Hazard Communication Standard)

Section I - Product & Company Identification

Product identifier

Product name : REVIVE

Product form: Liquid

Other means of identification: 0128

Relevant identified uses of the substance or mixture: Petroleum based cleaner

Details of the supplier of the safety data sheet

Manufacturer:

Diversified Chemical Products, Inc. 4124 B NW Riverside Street, Riverside, MO 64150

Phone: 816-472-5515

Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300

Section II – Hazards Identification

Classification

Flammable Liquids- Category 3

Acute toxicity - Oral Category 5

Skin irritation Category 2

Eye Irritation Category 2A

Skin sensitization Category 1

Aspiration hazard Category 1

Specific target organ toxicity(Single exposure) Narcotic effects, Category 3

Acute aquatic toxicity Category 1

Pictogram



Signal Word

Danger

Hazard Statements

Flammable liquid and vapor.

May be fatal if swallowed and enters airways.

Causes skin irritation

Causes serious eye irritation

May cause an allergic skin reaction.

May be harmful if swallowed.

May cause drowsiness and dizziness

Very toxic to aquatic life.

Precautionary Statements – Prevention

Keep away from heat/sparks/open flames/hot surfaces- No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Wear protective gloves/protective clothing/eye protection/face protection
Avoid breathing mist/vapor/spray.
Avoid release to the environment.

Precautionary Statements – Response

IN CASE OF FIRE: Consider carbon dioxide, dry chemical or alcohol resistant foam to extinguish.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.
IF ON SKIN: Wash with plenty of soap and water. Get medical attention if irritation persists.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do not induce vomiting.
Take off contaminated clothing and wash before reuse.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call POISON CENTER/doctor if you feel unwell.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Section III –Composition/Information on ingredients

Mixture

Name	CAS No.	Weight %
D-Limonene	5989-27-5	10-20
Hydrotreated light distillates (petroleum)	64742-47-8	50-60

Any concentration shown as a range is to protect confidentiality or is due to process variation.

Section IV – First Aid Measures

First Aid Measures

Inhalation: Remove to fresh air. If breathing stops, provide artificial respiration. If symptoms persist, call a physician.

Eye Contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.

Ingestion: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin Contact: Remove contaminated clothing, wash victim with plenty of water. If skin irritation persists, call a physician.

Most Important Symptoms and Effects, both Acute and Delayed

Symptoms

May cause skin and eye irritation with reddening and watering. May cause drowsiness and dizziness.

Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians: Treat symptomatically.

Section V – Fire Fighting Measures

Suitable Extinguishing Media

Water spray, alcohol resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Carbon oxides

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, NIOSH (approved or equivalent) and full protective gear.

Section VI –Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions Use personal protective equipment as required. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe area.

Methods and Material for Containment and Cleaning Up

Methods for Containment: Prevent further leakage or spillage if safe to do so by containing with inert absorbent. Avoid releasing to the environment..

Methods for Cleaning Up: Collect liquid in a sealable, solvent resistant container. Sprinkle inert absorbent compound onto spill, then sweep into a container. Keep in suitable, closed containers for disposal.

Section VII – Handling & Storage

Precautions for Safe Handling

Advice on Safe Handling: Handle in accordance with good industrial hygiene and safety practice. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use personal protection recommended in Section 8.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions: Keep containers tightly closed in a dry, cool and well-ventilated place.

Section VIII – Exposure Controls/ Personal Protection

Exposure Guidelines

<u>Chemical Name</u>	<u>CAS #</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>NIOSH</u>
D-Limonene	5989-27-5	Not established	Not established	Not established
Hydrotreated light distillates (petroleum)	64742-47-8	212 ppm 1200 mg/m ³ 8 h	500 ppm	Not established

Appropriate Engineering Controls

Engineering Controls: Provide adequate ventilation, eyewash stations.

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection: Wear approved safety goggles/ face shield where a splash hazard exists.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: Ensure adequate ventilation, especially in confined areas.

General Hygiene Considerations: Handle in accordance with good industrial hygiene and safety practice.

Section IX – Physical & Chemical Properties

Information on Basic Physical and Chemical Properties

Physical State Liquid
Color Amber

<u>Property</u>	<u>Values</u>
pH	No data available
Melting Point/Freezing Point	No data available
Boiling Point/Boiling Range	158-194 ° C (316.4-381.2 ° F)
Flash Point	48.9 ° C (120 ° F)
Evaporation Rate	No data available
Flammability (Solid,Gas)	n/a-liquid
Upper Flammable Limits	6.1 % (V)
Lower Flammable Limits	0.6% (V)
Vapor Pressure	<2 mmHg @ 20° C
Vapor Density	No data available
Specific Gravity	0.81
Water Solubility	Insoluble
Solubility in Other Solvents	No data available
Partition Coefficient	No data available
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Kinematic Viscosity	No data available
Dynamic Viscosity	No data available
Explosive Properties	Not an Explosive
Oxidizing Properties	No data available
Odor	Citrus
Odor Threshold	No data available

Section X – Stability & Reactivity

Reactivity

d-Limonene can oxidize slowly in contact with air.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

No hazardous polymerization.

Conditions to Avoid

Heat, sparks, flames.

Incompatible Materials

Oxidizing agents, strong acids, peroxides, halogens.

Hazardous Decomposition Products

Carbon dioxide, carbon monoxide, acrid smoke.

Section XI - Toxicological information

Information on Likely Routes of Exposure

Product Information

Inhalation: Avoid breathing vapors or mists. May cause mild irritation of the upper respiratory tract in large doses.

Eye Contact: Causes serious eye irritation

Skin Contact: Causes moderate skin irritation, dry skin, redness..

Ingestion: Harmful if swallowed. May be fatal if swallowed and enters airways.

This product as a whole has not been tested for acute toxicity; the following is based on component data:

Chemical Name	CAS #	Oral LD50	Dermal LD50	Inhalation LC50
D-Limonene	5989-27-5	>5,000 mg/kg(Rat)	>5,000 mg/kg(Rabbit)	No data available
Hydrotreated light distillates (petroleum)	64742-47-8	>5,000 mg/kg(Rat)	>2000 mg/kg (Rabbit)	>5.2 mg/1 4 h

Chemical Name	D-Limonene	Hydrotreated light distillates (petroleum)
Skin corrosion/irritation	Moderate irritation	Moderate irritation
Serious eye damage/irritation	No data available	Mild irritation
Respiratory or skin sensitization	Sensitizer when oxidized	Not a sensitizer
Mutagenicity	No data available	Negative results
Carcinogenicity	Not classified as carcinogen	Not classified as carcinogen
Reproductive toxicity	No data available	No data available
Specific target organ toxicity-Single exposure	No data available	Narcotic effects.
Specific target organ toxicity-repeated exposure	No data available	No data available
Aspiration hazard	Aspiration hazard	Aspiration hazard.

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

Carcinogenicity: This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Numerical Measures of Toxicity: Not determined

Section XII - Ecological information

Ecotoxicity

There is no data available for this product as a whole.

Chemical Name	CAS #	Algae/aquatic plants	Fish	Aquatic invertebrates
D-Limonene	67-63-0	No data available	LC50 - Pimephales promelas (fathead minnow) 0.702 mg/l - 96 h	EC50 - Daphnia pulex (Water flea) – 69.6 mg/l 48 h
Hydrotreated light distillates (petroleum)	64742-47-8	No data available	LC50 - Pimephales promelas (fathead minnow) 45 mg/l - 96 h LC50 Oncorhynchus mykiss: 2.4 mg/l 96 h	LC50-Den-dronereides heteropoda 4720 mg/l 96 h

Persistence and Degradability

No data available

Bioaccumulation

No data available

Mobility

No data available

Section XIII - Disposal considerations

Waste Disposal Method

Dispose of material in accordance with all Federal, State and local regulations. Local regulations may be more stringent than Federal or State. Avoid discharge to sewers or waterways.

Section XIV - Transport information

DOT Proper Shipping Description:

Non-Bulk: combustible, not regulated

Bulk: NA1993, Compounds, cleaning liquid, N.O.S. (d-Limonene, hydrotreated light distillates), 3, PGIII

Section XV - Regulatory information

SARA Title III Section 311/312 (40CFR370): , Acute and health hazard

SARA Title III Section 313 (40CFR372): No reportable components.

RCRA Status (40CFR261.33): No reportable components.

TSCA Inventory Status: Reported/included

OSHA/NTP/IARC Carcinogen Status: Not listed

Canadian DSL Status: Reported/included

Chemicals Known to the State of California to Cause Cancer or Reproductive Toxicity:

This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
d-Limonene			
Hydrotreated light distillates (petroleum)	NONANE	NONANE	NONANE

Section XVI - Other information

HMIS ratings: Health: 2 Flammability:2 Reactivity: 0

Indication of changes: Revision – 1

Date Sheet Prepared: 05/06/2015 Other information: Author – EHS Administrator

The information herein is presented in good faith and believed to be correct as of the date hereof. However, the manufacturer makes no representation as to the completeness and accuracy thereof. Users must make their own determination as to the suitability of the product for their purposes prior to use.

No representations or warranty's, either express or implied of merchantability, fitness for a particular purpose or of any other nature with respect to the product or to the information herein is made hereunder. The manufacturer shall in no event be responsible for any damages of whatsoever nature directly or indirectly resulting from the publication or use of or reliance upon information contained herein.

END OF SDS