



Material Safety Data Sheet

ACID PENSURF

HEALTH	*	2
FLAMMABILITY		1
PHYSICAL HAZARD		0
PERSONAL PROTECTION		

1. Product and Company Identification

Material name	ACID PENSURF
Patent Number	Not available
Version No.	3
CAS #	Mixture
Manufacturer information	Clearwater International L.L.C. 100 Leetsdale Industrial Drive Leetsdale, PA 15056 US CHEMTREC 1-800-424-9300/703-527-3887
Emergency	CHEMTREC 1-800-424-9300/703-527-3887
Supplier information	Universal Well Services, Inc. 18360 Technology Drive Meadville, PA 16335 US

2. Hazards Identification

Emergency overview	Health injuries are not known or expected under normal use.
OSHA regulatory status	This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
Potential health effects	
Ingestion	Do not ingest. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Potential environmental effects	Components of this product are hazardous to aquatic life. May cause long-term adverse effects in the environment.

3. Composition / Information on Ingredients

Components	CAS #	Percent
2-Ethylhexanol	104-76-7	40 - 70
Dodecylbenzenesulfonate isopropanolamine	42504-46-1	30 - 60

4. First Aid Measures

First aid procedures	
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops or persists.
Inhalation	Move to fresh air. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention immediately.



**Ingestion**

If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice.

General advice

If you feel unwell, seek medical advice (show the label where possible).

5. Fire Fighting Measures

Flammable properties

Combustible by OSHA criteria. Containers may explode when heated. Runoff to sewer may cause fire or explosion hazard.

Extinguishing media**Suitable extinguishing media**

Dry chemical, CO₂, water spray or regular foam.

Unsuitable extinguishing media

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

Protection of firefighters**Protective equipment and precautions for firefighters**

In the event of fire and/or explosion do not breathe fumes. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions. ALWAYS stay away from tanks engulfed in flame. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Withdraw immediately in case of rising sound from venting safety devices or any discoloration of tanks due to fire. Move containers from fire area if you can do it without risk. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn. Use water spray to cool unopened containers. Cool containers with flooding quantities of water until well after fire is out.

6. Accidental Release Measures

Personal precautions

Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering. Keep unnecessary personnel away. Stay upwind. Keep out of low areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not contaminate water.

Methods for containment

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up

Should not be released into the environment.

Large Spills: Dike far ahead of liquid spill for later disposal. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. After removal flush contaminated area thoroughly with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly.

Never return spills in original containers for re-use.

7. Handling and Storage

Handling

Do not breathe dust/fume/gas/mist/vapors/spray. Use only with adequate ventilation. Avoid release to the environment. Wash thoroughly after handling. Avoid prolonged exposure.





Storage Store in a closed container away from incompatible materials. Store in accordance with local/regional/national/international regulation.

8. Exposure Controls / Personal Protection

Engineering controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

General hygiene considerations When using do not smoke. Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Appearance Liquid.

Color clear, orange

Odor Not available.

Odor threshold Not available

Physical state Liquid.

Form Liquid.

pH 7 - 8.5

Melting point 26.6 °F (-2.7 °C) estimated

Freezing point Not available

Boiling point 348.8 °F (176 °C) estimated

Flash point 150 °F (65.6 °C)

Evaporation rate Not available

Flammability Not available.

Flammability limits in air, upper, % by volume Not available

Flammability limits in air, lower, % by volume Not available

Vapor pressure Not available

Vapor density Not available

Specific gravity 0.9 - 0.94

Relative density 0.9199 g/cm³ estimated

Solubility (water) Not available

Partition coefficient (n-octanol/water) Not available

Auto-ignition temperature 447.8 °F (231 °C) estimated

Decomposition temperature Not available

VOC 46.15 % estimated

10. Chemical Stability & Reactivity Information

Chemical stability Stable at normal conditions.

Conditions to avoid Heat, flames and sparks.

Incompatible materials May form explosive mixtures with air. Amines. Isocyanates. Strong acids. Caustics.





11. Toxicological Information

Acute effects Acute LD50: 3285 mg/kg estimated, Rat, Oral
Acute LD50: 4268 mg/kg estimated, Rat, Dermal

Component analysis - LD50

Toxicology Data - Selected LD50s and LC50s

2-Ethylhexanol 104-76-7 Oral LD50 Rat: 1516-2774 mg/kg

Sensitization Not expected to be hazardous by OSHA criteria.

Chronic effects Not expected to be hazardous by OSHA criteria.

Carcinogenicity Not expected to be hazardous by OSHA criteria.

Neurological effects Not expected to be hazardous by OSHA criteria.

Further information This product has no known adverse effect on human health.

12. Ecological Information

Ecotoxicity LC50 617.5 mg/L, Acarta Tonsa, 48.00 Hours,
NOEC 355.6 mg/L, Acarta Tonsa, 48.00 Hours,
LC50 1000 mg/L, Scophthalmus Maximus, 96.00 Hours,

Ecotoxicity - Freshwater Algae Data

2-Ethylhexanol 104-76-7 72 Hr EC50 Scenedesmus subspicatus: 11.5 mg/L

Ecotoxicity - Freshwater Fish Species Data

2-Ethylhexanol 104-76-7 96 Hr LC50 Oncorhynchus mykiss: 32 mg/L [static]; 96 Hr LC50 Pimephales promelas: 27-29.5 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 29.7 mg/L [static]

Ecotoxicity - Water Flea Data

2-Ethylhexanol 104-76-7 48 Hr EC50 Daphnia magna: 39 mg/L

Environmental effects Harmful to aquatic life.

Ecotoxicity - Freshwater Algae Data

2-Ethylhexanol 104-76-7 72 Hr EC50 Scenedesmus subspicatus: 11.5 mg/L

Ecotoxicity - Freshwater Fish Species Data

2-Ethylhexanol 104-76-7 96 Hr LC50 Oncorhynchus mykiss: 32 mg/L [static]; 96 Hr LC50 Pimephales promelas: 27-29.5 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 29.7 mg/L [static]

Ecotoxicity - Water Flea Data

2-Ethylhexanol 104-76-7 48 Hr EC50 Daphnia magna: 39 mg/L

13. Disposal Considerations

Disposal instructions Do not allow this material to drain into sewers/water supplies. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in accordance with all applicable regulations.



14. Transport Information

Department of Transportation (DOT) Requirements

Bulk

Basic shipping requirements:

Proper shipping name	Combustible Liquid, n.o.s.
Hazard class	3
UN number	1993
Packing group	III



Canadian Transportation of Dangerous Goods (TDG) Requirements

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

15. Regulatory Information

Labelling

Contains 2-Ethylhexanol, Dodecylbenzenesulfonate isopropanolamine

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

FEMA (Flavor and Extract Manufacturers Association) - FEMA Numbers

2-Ethylhexanol 104-76-7 3151

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

CERCLA (Superfund) reportable quantity

Dodecylbenzenesulfonate isopropanolamine: 1000.0000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes



**Inventory status**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of New and Existing Chemicals (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

International regulations**Canada - WHMIS - Ingredient Disclosure List**

2-Ethylhexanol 104-76-7 1 %

State regulations

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

U.S. - Massachusetts - Right To Know List

2-Ethylhexanol 104-76-7 Present
Dodecylbenzenesulfonate 42504-46-1 Present
isopropanolamine

U.S. - New Jersey - Right to Know Hazardous Substance List

Dodecylbenzenesulfonate 42504-46-1 sn 3026
isopropanolamine

U.S. - Pennsylvania - RTK (Right to Know) List

2-Ethylhexanol 104-76-7 Present
Dodecylbenzenesulfonate 42504-46-1 Environmental hazard
isopropanolamine

U.S. - Texas - Effects Screening Levels - Long Term

2-Ethylhexanol 104-76-7 14 ppb ESL (odor); 74 µg/m³ ESL (odor)
Dodecylbenzenesulfonate 42504-46-1 2 µg/m³ ESL
isopropanolamine

U.S. - Texas - Effects Screening Levels - Short Term

2-Ethylhexanol 104-76-7 140 ppb ESL (odor); 740 µg/m³ ESL (odor)
Dodecylbenzenesulfonate 42504-46-1 20 µg/m³ ESL
isopropanolamine

16. Other Information**HMIS® ratings**

Health: 2*
Flammability: 1
Physical hazard: 0

NFPA ratings

Health: 2
Flammability: 1
Instability: 0





Prepared by

Amanda L. Ruston
4420 South Flores Road
Elmendorf, Texas 78112
210-626-0850

Disclaimer

THIS PRODUCT'S HEALTH AND SAFETY INFORMATION IS PROVIDED TO ASSIST OUR CUSTOMERS IN ASSESSING COMPLIANCE WITH HEALTH, SAFETY AND ENVIRONMENTAL REGULATIONS. THE INFORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE TO US, AND IS BELIEVED TO BE ACCURATE, ALTHOUGH NO GUARANTEE OR WARRANTY IS PROVIDED OR IMPLIED BY THE COMPANY IN THIS RESPECT. SINCE THE USE OF THIS PRODUCT IS WITHIN THE EXCLUSIVE CONTROL OF THE USER, IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE CONDITIONS OF SAFE USE. SUCH CONDITIONS MUST COMPLY WITH ALL GOVERNMENTAL REGULATIONS.

MSDS sections updated

Product and Company Identification: Product and Company Identification

