

SAFETY DATA SHEET

1. Product and Company Identification

Product Name: SP-28
Product Code: SP28 **Chemical Type:** Solvent Blend
Product Use: SP28 SP 28 is a bio-based semi-aqueous cleaner. Used as received.

Manufacturer: Chemical Solvents Inc.
Address: 3751 Jennings Rd.
Cleveland, OH 44145 USA
Revision Date: 3/6/2015

24 Hour Health Emergency: (800) 362-0693
Transportation Emergency Phone:
(800)424-9300 CHEMTREC

NOTE: The information contained herein is accurate to the best of our knowledge. We do not suggest or guarantee that any hazards listed herein are the only ones which exist. Chemical Solvents Inc provides this information as guidance for providing personal protection to your employees. The user has the sole responsibility to determine the suitability of the materials for any use and the manner of use contemplated. The user must meet all applicable safety and health standards. Chemical Solvents Inc provides this information as guidance for providing personal protection to your employees.

2. Hazards Identification

GHS Label elements, including precautionary statements



Pictogram

Signal word Danger

Hazard statement(s)

Flammable liquid and vapor.
Causes serious eye damage.
May cause respiratory irritation.
May be harmful if swallowed.
May be harmful in contact with skin.
May cause skin irritation.

Precautionary statement(s)

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.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/ protective clothing/ eye protection/ face protection.
IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or doctor/ physician.

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Store in a well-ventilated place. Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

Store locked up.

Dispose of contents/ container to an approved waste disposal

Routes of Entry: Dermal contact. Eye contact. Inhalation. Ingestion

3. Composition / Information on Ingredients

| Ingredients | CAS # | Percent | Exposure Limits |
|---|-------------|------------|---|
| Complex mixture of esters and aromatic alcohols | Proprietary | Up to 100% | OSHA (TWA)- N/E ACGIH (TLV)- N/E MFG suggests (TWA): 50 ppm |
| Triethanolamine | 102-71-6 | <2% | OSHA (TWA/TLV)- N/E ACGIH (TWA/TLV)- 5 mg/m3 |
| Water | 7732-18-5 | <10% | OSHA (TWA)- N/E ACGIH (TWA)- N/E |

4. First Aid Measures

Eye Contact: Flush with warm water for 15 minutes. Seek medical attention.

Skin Contact: Wash with soap and water. Remove any contaminated clothing and launder before reusing. If irritation persists, seek medical attention.

Inhalation: Remove exposed individual to fresh air, protecting yourself. Restore breathing if necessary. Contact a physician.

Ingestion: Immediately give the person two large glasses of water. Do not induce vomiting. Get medical attention immediately. DO NOT GIVE AN UNCONCIOUS OR CONVULSING PERSON ANYTHING BY MOUTH!

5. Fire Fighting Measures

Flash Point: >285 F (TCC)

Flammable limits in air, % by volume:

Upper: No Information

Lower: No Information

Extinguishing Media: Dry chemical, carbon dioxide, halon, or foam is recommended. Water spray may be used to cool containers or structures. Halon may decompose into toxic materials and carbon dioxide will displace oxygen, take proper precautions when using these materials.

Unusual Fire & Explosion Hazards: This material may be ignited by extreme heat, sparks, flames or other ignition sources (static electricity). Vapors are heavier than air and will collect in low areas (sewers) or travel considerable distances. If containers are not cooled in a fire, they may rupture and ignite.

Special Fire Fighting Procedures: Emergency responders should wear self-contained breathing apparatus. Wear other protective gear as conditions warrant. Keep unauthorized people out and try to contain spills or leaks if it can be done safely. Material will float on water, avoid spreading the fire.

6. Accidental Release Measures

Spill or Leak Instructions

Contain spill with dikes of soil or nonflammable absorbent to minimize contaminated area. Avoid run-off into storm sewers and ditches leading to waterways. If required, notify state and local authorities. Place leaking containers in well-ventilated area. Clean up small spills by using a nonflammable absorbent or flushing sparingly with water. Contain larger spills with nonflammable diking or absorbent. Clean up by vacuuming or sweeping.

Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind; keep out of low areas. Assess the spill situation, as the spill may not evolve large amounts of hazardous airborne contaminants in many outdoor spill situations. It may be advisable in some cases to simply monitor the situation until spilled product is removed.

7. Handling and Storage

Handling: FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN

Use in accordance with good work place practices. Use with adequate ventilation. Keep containers closed when not in use. Always open containers slowly to allow any excess pressure to vent. Avoid breathing vapor. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling. Decontaminate soiled clothing thoroughly before re-use. Destroy contaminated leather clothing.

This product may generate a static charge. Ground/bond equipment when transferring material to prevent static accumulation. Electrical equipment and circuits in all storage and handling should conform to requirements of National Electric Code (Article 500 and 501) for hazardous location. Empty containers may contain residues from the product. Treat empty containers with the same precautions as the material last contained. Do not cut, weld or apply heat to empty containers.

Storage: Store in a cool, dry area, away from heat or direct sunlight. Keep containers closed when not in use. Do not store with incompatible materials

8. Exposure Controls / Personal Protection

Protective Equipment: Use synthetic gloves if necessary to prevent excessive skin contact. Do not wear contacts and always use ANSI approved safety glasses or splash shield.

Engineering Controls: General or dilution ventilation is frequently sufficient as the sole means of controlling employee exposure. Local ventilation is usually preferred. Use a NIOSH approved respirator if ventilation is not adequate to maintain exposures below TLV levels.

Respiratory Protection: Based on workplace contaminant level and working limits of the respirator, use a respirator approved by NIOSH.

Other Suggested Equipment: Eye wash station and emergency showers should be available. Spill containment equipment should be available.

Discretion Advised: Chemical Solvents Inc. takes no responsibility for determining what measures are required for personal protection in any specific application. The general information should be used with discretion.

9. Physical and Chemical Properties

Boiling Point: > 100 C Initial
Vapor Density: >1(Air=1)
Odor/Appearance: Clear, liquid

Specific Gravity: 1.04
Water Solubility: Partial
Evaporation Rate: < 1 (NBA=1)

10. Stability and Reactivity

Stability: Stable

Conditions to Avoid: Heat, spark, and open flame

Incompatibility: Strong Oxidizing Agents

Hazardous Decomposition: Combustion will produce Carbon Monoxide, Carbon Dioxide and nitrogen-oxygen compounds.

Hazardous Polymerization: Will not occur

11. Toxicological Information

COMPONENT DATA:

Note: Some studies have linked the use of "Solvents" to Changes in the liver, kidneys, nervous system, and Non-Hodgkins Lymphoma.

Phenylcarbinol

SAFETY: A relatively non-toxic material. The Registry of Toxic Effects of Chemical Substances of the U.S. National Institute of Occupational Science and Health (NIOSH) lists the following data:

Registration Number DN 3150000

LD50 (orl-rat) 1230 mg / kg

LD50 (orl-mouse) 1589 mg / kg

LD50 (orl-rbt) 1040 mg / kg

LD50 (ihl-rat) 1000 PPM / 8 hr

Skn (rbt) Mild response 10 mg / 24 hr

Skn (gpg) Moderate response 500 mg / 24 hr

Eye (rbt) Severe response 750 mg / 24 hr

Aquatic Toxicity Rating TLM96: 1000 - 100 ppm

A threshold limit value (TLV) has not been established by the American Conference of Governmental Industrial Hygienists (ACGIH). However, direct contact or prolonged exposure to its vapors should be avoided. At temperatures of less than 25° C, saturate

ALIPHATIC ESTERS

Acute animal toxicity data:

Oral: LD50, rat, > 500 mg/kg, Slightly toxic following oral administration. No Mortality observed at listed concentration.

Dermal: LD50, rabbit, > 5,000 mg/kg, Practically nontoxic after skin application in animal studies.

Inhalation: LC50, rat, > 10.7 mg/l, 1 h,

Eye irritation: rabbit, Moderately irritating,

Skin irritation: rabbit, Practically non irritating to skin (rabbit), 4 h

Skin sensitization: guinea pig, This material did not produce skin sensitization in laboratory animals.

Repeat dose toxicity: rat, gavage, 28 days, No adverse treatment related effects.

Repeat dose toxicity: rat, inhalation, 90 day, Produced effects on body weight, serum enzymes and/or organ weights in repeat dose studies. Repeated inhalation exposure produces nasal tissue damage. Minor changes in male fertility parameters, i.e. hormone measurements, sperm number or reproductive organ weights, observed in the absence of a change in reproductive performance.

Rodents are more susceptible to reported effect than humans.

Target organs affected -nose

Developmental toxicity: rat, inhalation, , No effects on offspring observed in laboratory animals in the presence of maternal toxicity.

Reproductive toxicity: rat, inhalation, 1 generation, Signs of generalized toxicity (reduced body weight and/or reduced weight gain) were observed in parental animals and offspring with no effect on fertility or reproduction.

Mutagenicity: No genetic effects were observed in standard tests using bacterial cells and whole animals. Genetic effects were observed in standard tests with animal cells.

Components

Data from Cytec studies and/or the available scientific literature on the components of this material which have been identified as hazardous chemicals under the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200) or the Canadian Hazardous Products Act are discussed below.

Slightly toxic following oral administration.

Practically nontoxic after skin application in animal studies.

Moderately irritating to eyes (rabbit).

Practically non irritating to skin (rabbit).

CYCLIC AMINE

TWAEV / TLV 10ppm / 40mg/m3 (skin) – AIHA WEEL; recommended value

Workplace Environmental Exposure Level (WEEL): 8-hr Time weighted Average (TWA) 10 ppm, skin.

Effects, Chronic Exposure

General prolonged exposure may cause severe dermatitis

Sensitising: not a sensitiser in humans or animals

Carcinogen/Tumorigen: not considered a tumorigen or a carcinogen in humans or animals

Reproductive Effect: no known effect in humans; effects only seen in doses causing maternal toxicity

Mutagen: no known effect on humans or animals

Synergistic With NMP enhances skin absorption of other substances

LD50 3900mg/kg (oral, rat), 3500mg/kg (oral, rabbit), 4400mg/kg (oral, guinea pig),

5300mg/kg (oral, mouse); 8000mg/kg (skin, rabbit)

LC50 not known

NOTE: LD50 & LC50 test data vary widely between species. Relevance to human toxicity should not be assumed.

Lactic Acid Ethyl Ester

ORAL (LD50): Acute: >5000 mg/kg [Rat]. 2500 mg/kg [Mouse].

DERMAL (LD50): Acute: >5000 mg/kg [Rabbit].

Potential Acute Health Effects: Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation (lung irritant). Slightly hazardous in case of skin contact (permeator).

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

Repeated or prolonged exposure is not known to aggravate medical condition

Triethanolamine

Triethanolamine LD50 Oral – Rabbit 5000 mg/kg LD50 Dermal – Rabbit > 2000 mg/kg

LC50 Inhalation – N/A

Diethanolamine LD50 Oral – Rabbit 2200 mg/kg LD50 Dermal – Rabbit 12200 mg/kg

LC50 Inhalation – N/A

Triethanolamine/ Diethanolamine is not listed a carcinogen by ACGIH, NTP, and OSHA. International Agency for Research on Cancer (IARC) lists Triethanolamine/ Diethanolamine as Group 3. Group 3 is defined as The agent is not classifiable as to carcinogenicity in humans.

3-ETHOXYPROPANOIC ACID, ETHYL ESTER

MFG suggests (TWA): 50 ppm

Effects, Chronic Exposure

| | |
|-------------------------------|---|
| General | prolonged exposure may cause dermatitis & skin cracking; may damage liver & kidneys |
| Sensitising | not a sensitiser in humans or animals |
| Carcinogen/Tumorigen | not considered a tumorigen or a carcinogen in humans or animals |
| Reproductive Effect | no known effect in humans or animals |
| Mutagen | no known effect on humans or animals |
| Synergistic With | not known |
| LD ₅₀ (oral) | 5000mg/kg (rat) |
| LD ₅₀ (skin) | 9500mg/kg (rabbit) |
| LC ₅₀ (inhalation) | not known |

12. Ecological Information

No Data Available..

13. Disposal Considerations

Dispose of spilled material in accordance with state and local regulations for waste that is non-hazardous by Federal definition. Note that this information applies to the material as manufactured; processing, use, or contamination may make this information inappropriate, inaccurate, or incomplete.

Note that this handling and disposal information may also apply to empty containers, liners and rinsate. State or local regulations or restrictions are complex and may differ from federal regulations. This information is intended as an aid to proper handling and disposal; the final responsibility for handling and disposal is with the owner of the waste.

14. Transport Information

COMBUSTIBLE LIQUID, N.O.S., N.A. 1993, PG III

15. Regulatory Information

Environmental Regulations

SARA 311:

| | | | |
|----------------------|-----|------------------------------------|----|
| Acute health: | Yes | Chronic health: | No |
| Fire: | Yes | Sudden release of pressure: | No |
| Reactive: | No | | |

SARA 313: Title III of the 1986 Super fund Amendments and Reauthorization Act (SARA) and 40 CFR PART 372.
None Listed

All the chemicals used in this product are TSCA listed.
Check with your local regulators to be sure all local regulations are met.

16. Other Information

Hazard ratings This information is intended solely for the use of individuals trained in the NFPA and/or HMIS systems.

NFPA: Health: 2 Flammability: 2 Reactivity: 0

HMIS: Health: 2 Flammability: 2 Reactivity: 0

RATING: 4-EXTREME 3-HIGH 2-MODERATE 1-SLIGHT 0-INSIGNIFICANT

Note:

For industrial use only. The information contained herein is accurate to the best of our knowledge. We do not suggest or guarantee that any hazards listed herein are the only ones which exist. Chemical Solvents Inc makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances. Effects can be aggravated by other materials and/or this material may aggravate or add to the effects of other materials. This material may be released from gas, liquid, or solid materials made directly or indirectly from it. User has the sole responsibility to determine the suitability of the materials for any use and the manner of use contemplated. User must meet all applicable safety and health standards. Possession of an MSDS does not indicate that the possessor of the MSDS was a purchaser or user of the subject product.

Distributed By :

MachinableWax.com

1302 S. West Silver Lake Road

Traverse City, MI 49685

231-275-7000