

**1 – PRODUCT IDENTIFICATION****Product identifier used on the label:** Savvy Quick Solv**Other means of Identification:** 2128; 18788645,299995; 18788147, 299997; 18787799, 318040; 18788956, 300608**Recommended use of the chemical and restrictions on use:** For professional use only.

Manufacturer/Supplier: Cloverleaf Chemical Company
Address: 192 S Locust Street
Manteno, IL 60950
www.cloverleafchemical.com
Telephone: 1-815-932-0060
Packaged By: VisionCorps Product Division: Skilcraft
244 North Queen Street
Lancaster, PA 17603-3585

24 Hr. Emergency Tel. #: CHEMTREC – 1-800-424-9300**2 – HAZARDS IDENTIFICATION****GHS Classification and Label Elements:**

Health	Physical	Environmental
Serious eye damage/eye irritation (2A) Skin corrosion/irritation (2) Skin sensitization (1)	Flammable liquids (3)	None

Hazard Statements:

H226: Flammable liquid and vapor
H315: Causes skin irritation
H320: Causes eye irritation
H317: May cause an allergic skin reaction

Precautionary Statements:**Prevention**

P210: Keep away from heat/sparks/open flames/hot surfaces
P240: Ground/bond container and receiving equipment
P241: Use explosion proof electrical/ventilating/lighting/equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P260: Do not breathe mist or vapor
P264: Wash thoroughly after handling
P280: Wear protective gloves/eye protection/face protection.

Response

P302+P361+P352: IF ON SKIN: Take off immediately all contaminated clothing. Wash with plenty of water
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a poison center/doctor
P363: Wash contaminated clothing before reuse
P370+P378: In case of fire: Use appropriate method to extinguish.

Storage

P233: Keep container tightly closed

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

P501: Dispose of contents and container to an approved waste disposal plant

Signal Word: Warning



3 – COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS number(s)	Concentration, %
Proprietary Blend	Proprietary	5-15
D-Limonene	5989-27-5	1-10
2-Butoxyethanol	111-76-2	5-10

4 – FIRST-AID MEASURES

Description of first-aid measures

General advice: Show this material safety data sheet to medical personnel. Do not leave affected person unattended. Isolate exposed apparel for laundry before re-use.

Eye contact: Rinse eyes with water. Remove any contact lenses, and continue flushing eyes with running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eyes and lids with water. Seek medical attention if irritation develops or persists.

Skin contact: Take off contaminated clothing and shoes immediately. Wash affected areas with plenty of water. Seek medical attention if irritation develops or persists.

Ingestion: Rinse mouth with water.

Inhalation: Remove from area to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Risks: The most important known symptoms and effects are described in the labeling (section 2.2) and/or in section 11. Corrosive effects. Symptoms may include stinging, tearing, redness, swelling and blurred vision. Permanent eye damage including blindness could result. Prolonged or repeated skin contact may aggravate existing skin conditions. Inhalation of mists may aggravate existing chronic respiratory conditions such as asthma, emphysema or bronchitis.

Indication of any immediate medical attention and special treatment needed

Note to physician: All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. Treat symptomatically.

5 – FIRE-FIGHTING MEASURES

Flash Point and Method: 131F (Closed Cup: ASTM-D93-Rev. 2002a)

Extinguishing media

Suitable extinguishing media: Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO₂)

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the

	fire.
Special hazards arising from the substance or mixture	
Special hazards during fire fighting:	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed. Container may rupture on heating
On combustion or on thermal decomposition:	May include carbon oxides
Advice for firefighters	
Special protective equipment for firefighters:	As in any fire, wear NIOSH/MSHA approved, pressure-demand self-contained breathing apparatus and full protective gear.
Specific firefighting methods:	No special methods required. Move containers from area if it can be done without risk. Cool fire-exposed containers with water from side. Contain the extinguishing fluids by diking.

6 – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. Spill area may be slippery. Wear appropriate protective equipment (See Section 8).

Environmental precautions

Avoid contact of spilled material and runoff with soil and surface waterways

Methods and material for containment and cleaning up

Recovery:	Stop leak if safe to do so. Absorb spills with vermiculite, fuller's earth, or sand. Shovel up and place in a non-metal waste container for disposal. Dike large spills with soil or sandbags to contain it and prevent its spread. Keep in suitable, properly labeled, closed containers for disposal.
Decontamination/ cleaning:	Wash non-recoverable remainder with large amounts of water. Clean contaminated surfaces thoroughly. Recover the cleaning water for subsequent disposal.
Disposal:	Dispose of in accordance with local regulations
Additional advice:	Spill area may be slippery

Reference to other sections

No information available

7 – HANDLING and STORAGE

Precautions for safe handling

Technical measures:	Use only in well ventilated area.
Advice on safe handling and usage:	Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not get this material in contact with eyes. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Avoid release to the environment. Wear appropriate protective equipment. Handle in accordance with good industrial hygiene and safety practice

Conditions for safe storage, including any incompatibilities

Technical measures for storage:	Keep away from heat, sparks, and flame. Store containers in a cool well-ventilated place. Keep container closed when not in use.
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Storage conditions

Recommended: Keep container tightly closed. Keep away from heat, and sunlight. Storage temperature range 5-30C (41-86F). Flash point is 131F. If material freezes, gently thaw prior to use. Mild agitation may be required.

Incompatible products: Hazardous reactions may occur on contact with certain chemicals. Refer to the list of incompatible materials section 10: "Incompatible materials"

Specific end use(s)

No information available

8 – EXPOSURE CONTROLS / PERSONAL PROTECTION
Introductory remarks:

These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should be handled in accordance with Section 13: Disposal considerations.

Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers

Control parameters

Components with workplace control parameters

Components	OSHA TWA	ACGIH TWA
D-Limonene	165.5 mg/m ³ 30 ppm	N/A
2-Butoxyethanol	240 mg/m ³ 50ppm (Skin)	20ppm

Exposure controls**Control measures**

Engineering measures: Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product. Respiratory protection is not required if good ventilation is maintained.

Personal protective equipment

Respiratory protection: In operations where mists are generated, wear a NIOSH/MSHA approved respirator that has been selected by a technically qualified person for the specific work conditions.

Hand protection: Wear long chemical resistant gloves. Observe instructions regarding permeability and breakthrough time provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion and contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye protection: Wear chemical splash goggles.

Skin and body protection: Wear footwear protecting against chemicals, and impervious clothing. Choose body protection according to the amount and concentration of the substances in the workplace.

Hygiene measures: Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:

	<p>1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.</p> <p>2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.</p> <p>3) Wash exposed skin promptly to remove accidental splashes or contact with material.</p>
Protective measures:	<p>Ensure that eyewash stations and safety showers are close to the workstation location, and that emergency equipment is immediately accessible with instructions for use.</p> <p>The protective equipment must be selected in accordance with current local standards and in following proper use instructions from the supplier of the protective equipment.</p> <p>Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the potential hazards, and/or risks that may occur during use.</p>

9 – PHYSICAL / CHEMICAL PROPERTIES

Physical and chemical properties listed represent typical properties and should not be considered product specifications.

Information on basic physical and chemical properties

Appearance:	Liquid
Odor:	Mild citrus
Odor Threshold:	No data available
pH	6.2
Freezing point:	No information available
Melting point/range:	No information available
Boiling point/boiling range:	No information available
Flash point:	131F (Closed cup, ASTM-D93)
Evaporation rate:	No information available
Flammability (solid, gas):	No information available
Flammability/Explosive limit:	No information available
Auto-ignition temperature:	No information available
Vapor pressure:	No information available
VOC %:	21.0%
Density:	8.15 lbs/gal
Solubility:	Water solubility: soluble
Solubility in other solvents:	Alcohols: soluble
Partition Coef.: n-octanol/water:	Not applicable Surface-Active
Thermal decomposition:	No information available
Viscosity:	Semi-viscous
Explosive properties:	No information available
Oxidizing properties:	Not considered as oxidizing, Structure-activity relationship (SAR)

Other information

Ionic character:	Anionic
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10 – STABILITY and REACTIVITY

Reactivity:	No information available
Chemical stability:	Stable and non-reactive under normal conditions of use, storage and transport
Possibility of hazardous reactions:	No information available
Conditions to avoid:	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Flash point is 131F.

Incompatible materials: Strong oxidizing agents
Hazardous decomposition products: Oxides of carbon

11 – TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity d-Limonene

Acute oral: LD₅₀ *Rat* >5,000 mg/kg
Acute dermal: LD₅₀ *Rabbit* >5,000 mg/kg
Acute toxicity (other): No information available

Acute toxicity 2-Butoxyethanol

Acute oral: LD₅₀ *Rat* 470mg/kg
Acute inhalation: LC₅₀ *Rat* 10-20 mg/kg
Acute toxicity (other): ATE: Oral 500 mg/kg, Dermal 1100 mg/kg, Inhalation vapor 11mg/

Skin corrosion/irritation

Skin irritation: Causes skin irritation

Serious eye damage/eye irritation

Eye irritation: Causes eye irritation

Respiratory or skin sensitization

Sensitization: May cause an allergic skin reaction

Mutagenicity

Genotoxicity in vitro: No information available
Genotoxicity in vivo: No information available

Carcinogenicity

Carcinogenicity: This product does not contain any ingredient designated as probable or suspected human carcinogens by IARC, ACGIH **Toxicity for reproduction and development**

Toxicity to reproduction/fertility: No information available

Developmental toxicity/teratogenicity: No information available

Specific Target Organ Toxicity (STOT)

STOT-single exposure: No information available
STOT-repeated exposure: No information available

Aspiration toxicity

Aspiration toxicity: No information available

12 – ECOLOGICAL INFORMATION

Ecological Information: No Information Available

13 – DISPOSAL CONSIDERATIONS

Waste treatment methods

RCRA Waste Code: Not regulated under RCRA 40CFR261
Product disposal: Observe all applicable federal, state, and local regulations
Packaging: Remove all residue when emptying

14 – TRANSPORTATION INFORMATION

DOT Hazard Classification: Not regulated (non-bulk packaging)

15 - REGULATIONS

Contents of this SDS comply with the OSHA Hazard Communication Standard 29CFR 1910.1200

State regulations

California Prop 65 Components. Carcinogens & Reproductive Toxicity (CRT):
None listed

16 – OTHER INFORMATION

NFPA-Classification		HMIS-Classification	
Health	1 Slight	Health	1 Slight
Flammability	2 Slight	Flammability	2 Slight
Instability or Reactivity	0 insignificant	Reactivity	0 insignificant
		HMIS PPE	B
		B=Safety glasses, Gloves	

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