

LAWSON SCREEN PRODUCTS

5110 Penrose Street
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 (314) 382-9300 800-325-8317

General Information: 314-644-1300
 CHEMTREC: 800-424-9300

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MATERIAL SAFETY DATA SHEET**1: CHEMICAL PRODUCT IDENTIFICATION**

Product Name: C5 SCREEN WASH
 Product Code: C5
 MSDS Date: May 14, 2001

2: COMPOSITION, INFORMATION ON INGREDIENTS

No.	Component CAS REG. NO.	Amount %	OSHA		ACGIH	
			TWA	STEL	TLV	STEL
1	Xylene 1330-20-7	10 - 12	100 ppm	150	100	150
2	Ethylbenzene 100-41-4	1 - 5	100 ppm	125	100	125
3	2-Propanone 67-64-1 47	20 - 35	750		750	
4	2-Butanone 78-93-3	10 - 13	200		200	
5	Toluene 108-88-3	35 - 40	100		50	
6	Ethanol 64-17-5	12 - 17	1000		1000	

3: HAZARDS IDENTIFICATION**EMERGENCY RESPONSE INFORMATION**

HAZARDS	HMIS	NFPA
Toxicity	2	2
Fire	3	3
Reactivity	0	0
Special	G	

RATING	DEGREE OF HAZARD
4	Extreme
3	High
2	Moderate
1	Slight
0	Insignificant

SPECIAL EQUIPMENT LEGEND			
A	Safety Glasses	F	C + Dust Mask
B	A + Gloves	G	B + Respirator
C	B + Apron	H	F + Goggles
D	C + Face Shield	I	B + Respirator
E	B + Dust Mask	X	Ask Supervisor

Danger! Flammable liquid and vapor. Harmful if inhaled. High vapor concentrations may cause dizziness. May cause skin irritation. Causes eye irritation. Harmful or fatal if swallowed. Pulmonary aspiration hazard: can enter lungs and cause damage.

HEALTH EFFECTS FROM OVEREXPOSURE

Primary Routes of Exposure
 Skin Contact

Eye Contact
Inhalation
Ingestion

Eye Contact:

Direct contact with material can cause severe irritation.

Skin Contact:

Skin absorption of material may produce systemic toxicity. May cause irritation with prolonged or repeated contact. Removes natural oils and fats from skin. Low order of dermal toxicity. Skin contact may aggravate an existing dermatitis condition. Occasional brief contact with the liquid will not result in significant irritation unless evaporation is impeded.

Inhalation:

Inhalation of mist or spray concentrations (greater than approximately 1000 ppm) can cause irritation to eyes, nose, throat and lungs, and high concentrations may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness and other central nervous system effects, including death.

Ingestion:

Small amounts of this product aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury, possibly progressing to death. This product has a low order of oral toxicity.

4: FIRST AID MEASURES**Inhalation:**

Remove subject to fresh air. Keep subject at rest. If not breathing, give artificial respiration. Obtain medical assistance.

Eye Contact:

Flush eyes with a large amount of water for at least 15 minutes. Consult a physician if irritation persists.

Skin Contact:

Wash affected skin areas thoroughly with soap and water until no odor remains. If redness or swelling develops, consult a physician. Immediately remove contaminated clothing and wash before reuse.

Ingestion:

Do Not induce vomiting! Do Not give liquids. Keep subject at rest. Obtain Emergency Medical Attention. Small amounts which accidentally enter the mouth should be rinsed out until the taste is gone.

5: FIRE FIGHTING MEASURES**FIRE AND EXPLOSIVE PROPERTIES:**

Flash Point:	1.4°F TCC = -17°C
Auto-ignition Temperature:	869°F
Lower Explosion Limit:	1.1% Volume
Upper Explosion Limit:	12.3% Volume

Unusual Hazards:

Flammable liquid; will release invisible vapors that form flammable mixtures that might ignite or explode. Vapors can travel considerable distances to an ignition source and flash back. Toxic gasses will form upon combustion. Material can accumulate static charges which can cause an incendiary electrical discharge.

Material will partially dissolve and float on water.

Extinguishing Agents:

Use regular foam, dry chemical, carbon dioxide are appropriate. Use extinguishing media appropriate for surrounding media. Avoid spraying water directly into storage containers due to danger of boilover. Use water spray to cool adjacent fire exposed containers to avoid rupture and spattering and to disrupt vapors.

Personal Protective Equipment:

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

Special Procedures:

None.

6: ACCIDENTAL RELEASE MEASURES**Personal Protection:**

Appropriate protective equipment must be worn when handling a spill of this material. See the **PERSONAL PROTECTION MEASURES** Section for recommendations. If exposed to material during clean-up operations, see the **FIRST AID PROCEDURES** Section for appropriate actions.

Procedures:

Prevent ignition; stop leak; ventilate area; keep spectators away; contain spill immediately with inert noncombustible materials (e.g. sand, earth, absorbent). Transfer liquids and solid diking material to separate suitable containers for recovery or disposal.

CAUTION: Keep spills and cleaning runoff out of municipal sewers, watercourses and open bodies of water. Use water spray to disperse vapors.

Spills larger than 100 lbs. are subject to CERCLA reporting and are to be reported to the National Response Center and to local authorities.

7: HANDLING AND STORAGE**Handling:**

Avoid contact with skin, eyes or clothing. Avoid breathing of mist or vapor. Never siphon by mouth. Remove and wash contaminated clothing before reuse.

Practice good personal hygiene: Wash after handling; shower at end of work period.

Storage Conditions:

Keep away from heat, sparks and open flame. Protect from storage temperatures above 120°F.

Keep in a well ventilated space that is NFPA Class 1B. Consult NFPA and OSHA codes. Transfer operations must be electrically grounded.

Keep Out of Reach of Children.

Store upright in original closed container.

"Empty" containers retain product residue (liquid and/or vapor) that can be dangerous. Do NOT pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks, static electricity or other sources of ignition due to explosion or fire hazard. Empty drums should be completely drained and properly bunged and promptly returned to a reconditioner or other proper disposal.

8: EXPOSURE CONTROLS, PERSONAL PROTECTION**Respiratory Protection:**

A respiratory program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Use of this product does not require respiratory protection under normal operating conditions but use of local explosion proof exhaust ventilation is recommended, especially for confined spaces.
Where vapors or mists may occur, wear a MSHA / NIOSH approved (or equivalent) half-mask air purifying respirator. Air purifying respirators should be equipped with organic vapor cartridges and dust and mist filters.

Eye Protection:

Wear chemical splash goggles (ANSI Z87.1 or approved equivalent), or full face shield.

Hand Protection:

Wear gloves resistant to solvent permeation: neoprene, nitrile, polyvinyl alcohol, viton.

Other Protection:

None required.

FACILITY CONTROL MEASURES:**Ventilation:**

Use with adequate ventilation. Local explosion proof exhaust ventilation is recommended and explosion equipment is required.

Other Protective Equipment:

Facilities storing or utilizing this material should be equipped with eyewash and safety shower facilities.

9: PHYSICAL AND CHEMICAL PROPERTIES**TYPICAL**

State	Liquid
Appearance	Clear
Color	Colorless to light amber
Odor	Characteristic aromatic
Viscosity	Very Thin = 0.7 cSt @ 25°C = 77°F
pH as is	Slightly acidic in water
Specific Gravity @ 60°F	0.833
Density @ 60°F	6.94 Lbs/Gal
Vapor Density (Air = 1)	3.7
Vapor Pressure	< 180 mm Hg @ 25°C = 77°F
Freezing Point	< -47°C = -53°F
Boiling Point	133°F = 56°C
Solubility in Water	40% Approximate Appreciable
Percent Volatility	100%
Evaporation Rate (BAc = 1)	< 0.8 Approximate
VOC %	80% = 5.55 Lbs/Gal
HAP %	60% = 4.16 Lbs/Gal

10: STABILITY AND REACTIVITY**Instability:**

This material is considered stable.

Hazardous Decomposition Products:

There are no known hazardous decomposition products for this material except for Carbon Dioxide, Carbon Monoxide if burned.

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Hazardous Polymerization:

This product will not undergo polymerization.

Incompatibility:

This product is not compatible with strong acids and strong oxidizing agents.

11: TOXICOLOGICAL INFORMATION

Inhalation of vapor is harmful: Overexposure to high concentrations can cause eye, nose, throat, lung irritation; CNS (brain) effects, dizziness, difficulty in breathing, unconsciousness, coma and death. There are reports of heart irregularities from massive exposures.

Prolonged exposures can cause brain, liver, kidney effects/damage.

Skin contact can incur absorption. Repeated or prolonged contact is irritating.

Eye contact is irritating.

Oral consumption is harmful or fatal if swallowed. Pulmonary aspiration can enter lungs and cause damage.

12: ECOLOGICAL INFORMATION

Toxic to fish and food organisms.

13: DISPOSAL CONSIDERATIONS

Procedure:

Incinerate liquid and contaminated solids in accordance with local, state and federal regulations.

14: TRANSPORTATION INFORMATION

Proper Shipping Name: Flammable Liquid, n.o.s.

Contains: Xylene, Acetone

Hazard Class: 3

Identification No.: UN1993

Packing Group: II

Label: Flammable Liquid

Emergency Response Guide No.: 27 / 128

RQ: 100 Lb. Xylene

15: REGULATORY INFORMATION

WORKPLACE CLASSIFICATIONS

This product is considered to be hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

This product is a 'controlled' product under the Canadian Workplace Hazardous Materials Information System (WHMIS).

Status is not available.

EMERGENCY PLANNING AND COMMUNITY RIGHT - TO KNOW (SARA TITLE III)

Section 311/312 Categorizations (40 CFR 370)

This product is a hazardous material under 29 CFR 1910.1200, and therefore is covered by Title III of SARA and is classified into the following hazard categories:

Immediate (Acute) Health

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Delayed (Chronic) Health
Fire

Section 313 Information (40 CFR 372)

This product does contain the following chemical which is listed in Section 313 at or above the de minimis concentrations:

Xylene	10%
Ethyl Benzene	2%
Toluene	40%
Methyl Ethyl Ketone	11%

CERCLA INFORMATION (40 CFR 302.4)

Releases of this material to air, land or water are reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to the state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304.

The Reportable Quantity RQ of Xylene is 100 Lbs.

The Reportable Quantity RQ of Toluene, Ethyl Benzene is 1000 Lbs.

The Reportable Quantity RQ of Acetone, MEK is 5000 Lbs.

RCRA INFORMATION

When a decision is made to discard this material as supplied, it does meet RCRA's characteristic definition of ignitability, corrosivity, or reactivity, and is listed in 40 CFR 261.33.

CLEAN WATER ACT/OIL POLLUTION ACT

This product is classified as an oil under Section 311 of the Clean Water Act (40 CFR 110) and the Oil Pollution Act of 1990. Discharge or spills which produce a visible sheen on either surface water, or on waterways / sewers which lead to surface water, must be reported to the National Response Center at 800-424-8802.

CHEMICAL CONTROL LAW STATUS

All components of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

16: OTHER SUPPLEMENTAL INFORMATION

ABBREVIATIONS


ACGIH	American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety and Health Administration
TLV	Threshold Limit Value
PEL	Permissible Exposure Limit
TWA	Time Weighted Average
STEL	Short Term Exposure Limit
BAC	Butyl acetate
NE	Not Established
ND	Not Determined
NA	Not Applicable

The information contained herein pertains only to the specific material identified. Chemisphere Corp. believes that such information and recommendations set forth herein are accurate and reliable as of the date of this material safety data sheet, but Chemisphere Corp. makes no representation as to the completeness or accuracy thereof and supplies the information upon the condition that the persons receiving same will make their own determination as to its suitability for their purpose prior to use. In no event will Chemisphere Corp. be responsible for any damage of any nature whatsoever resulting from the use of or reliance upon this information. No representation, guarantee or warranty, either express or implied, is made hereunder as to the accuracy, reliability, completeness of the information, of



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