

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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PRODUCT NAME: CASCADE SC-10

PRODUCT NUMBER: SC10

PREPARED BY: Mike Rooney

DATE PREPARED: 1/30/96

SYNONYMS: Hydrocarbon blend

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS	OSHA PEL	ACGIH TLV	Weight %
Xylene	1330-20-7	100 ppm	100 ppm	40-44
Ethyl benzene	100-41-4	100 ppm	50 ppm (skin)	8-10
n-Butanol	71-36-3	50 ppm	50 ppm	48-52

3. HAZARDOUS IDENTIFICATION

EMERGENCY OVERVIEW:

DANGER! Flammable liquid and vapor. Harmful or fatal if swallowed. Vapor harmful.

POTENTIAL HEALTH EFFECTS

EYE CONTACT: Liquid is moderately irritating to the eyes. High vapor concentrations may also be irritating.

INHALATION: Vapors may be irritating to the nose, throat, and respiratory tract. High vapor concentrations may cause central nervous system (CNS) depression.

INGESTION: Liquid is moderately toxic and may be harmful if swallowed, may produce CNS depression. Ingestion of product may result in vomiting; aspiration (breathing) of vomitus into the lungs must be avoided as even small quantities may result in aspir. pneumonitis.

SKIN CONTACT: Liquid is moderately irritating to the skin. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash)

SIGNS AND SYMPTOMS OF EXPOSURE:

Early to moderate CNS depression may be evidenced by giddiness, headache, dizziness, and nausea, in extreme cases, unconsciousness and death may occur. Aspiration pneumonitis may be evidenced by coughing, labored breathing and cyanosis

4. FIRST AID MEASURES

EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. If irritation persists, get medical attention.

INHALATION: Remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

INGESTION: Do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Call poison control center or get medical attention immediately.

SKIN CONTACT: Remove contaminated clothing/shoes. Flush skin with water. Follow by washing with soap and water. If irritation occurs, get medical attention. Do not reuse clothing until cleaned.

AGGRAVATED MEDICAL CONDITIONS:

Preexisting eye, skin and respiratory disorders may be aggravated by exposure to this product. Impaired function from preexisting disorders may be aggravated by exposure to this product.

SUPPLEMENTAL HEALTH INFORMATION:

Near fatal exposures may result in congestive effects to a wide variety of organs.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT: 10 **FLASH POINT METHOD USED:** Tag Closed Cup

AUTOIGNITION: NDA **FLAMMABLE LIMITS:** LEL: 0.80% UEL: 11.20%

EXTINGUISHING MEDIA:

Use water fog, "alcohol" foam, dry chemical, or CO2.

SPECIAL FIRE-FIGHTING PROCEDURES:

WARNING. Flammable Liquid. Clear fire area of unprotected personnel. Do not enter confined fire space without full bunker gear, including a positive pressure NIOSH approved SCBA. Cool fire exposed containers with water.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

When heated above the flash point this material emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mist or spray may be flammable at temperatures below the flash point.

COMBUSTION PRODUCTS:

Carbon monoxide and unidentified organic compounds may be formed during combustion.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED:

Remove all sources of ignition and provide ventilation. Wear protective equipment as given in Section 8. Dike around large spills to prevent spreading. Absorb small spills with inert material (clay, sand). Prevent contamination of surface waters.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Keep away from heat, sparks, and flame. Surfaces that are hot may ignite even liquid product in the absence of sparks or flame. Extinguish pilot lights, cigarettes and turn off other sources of ignition prior to use and until all vapors are gone.

OTHER PRECAUTIONS:

Empty containers retain product residue and 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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION (Specify Type):

If exposure may or does exceed occupational exposure limits (Sec. 2) use a NIOSH approved respirator to prevent overexposure. In accord with 29 CFR 1910.134 use either an atmosphere-supplying respir. or an air-purifying respir. for organic vapors.

VENTILATION:

Provide exhaust ventilation sufficient to keep the airborne concentration of this product below its exposure limits. Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination.

PROTECTIVE GLOVES:

Test data indicate the best protection is provided by neoprene, nitrile, and natural rubber gloves.

EYE PROTECTION:

Use chemical safety goggles and/or full face shield where splashing is possible. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work areas.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

Where splashing is possible, full chemically resistant protective clothing (e.g., acid suit) and boots are required.

WORK/HYGIENIC PRACTICES:

Use good personal hygiene when handling this product. Wash hands after use, before smoking, or using the toilet.

ENGINEERING CONTROLS:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

EXPOSURE GUIDELINES

May be harmful or fatal if swallowed. May irritate body tissues. Use with adequate ventilation. Avoid breathing vapor. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES**APPEARANCE AND ODOR:**

Clear, colorless liquid with pungent odor

SOLUBILITY IN WATER:

Complete solubility with most hydrocarbon solvents, partial solubility with water

BOILING POINT: 244-279

VAPOR PRESSURE: 4.1 - 7 mmHg @ 20 C

SPECIFIC GRAVITY: 0.84

MELTING POINT: NDA

FREEZING POINT: NDA

EVAPORATION RATE: Slower than ether

VAPOR DENSITY: Heavier Than Air

PERCENT VOLATILE: 100

PH: N/A

MOLECULAR WEIGHT: N/A

POUNDS PER GALLON: 7.05

OTHER PROPERTIES:

10. STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID:

Stable under normal conditions.

INCOMPATIBILITY:

strong oxidizers.

HAZARDOUS DECOMPOSITION OR BY PRODUCTS:

None

HAZARDOUS POLYMERIZATION: Will Not Occur

CONDITIONS TO AVOID:

N/A

11. TOXICOLOGICAL INFORMATION

This product may contain benzene (CAS No. 71-43-3) at a concentration less than 10 ppm.

12. ECOLOGICAL INFORMATION

Prevent uncontrolled releases of this material. Where spills are possible, a comprehensive spill response plan should be developed and implemented.

13. DISPOSAL CONSIDERATIONS

The preferred options for disposal are to send to licensed reclaimers, or to permitted incinerators. Any disposal practice must be in compliance with federal, state, and local regulations. Do not dump into sewers, ground, or any body of water

14. TRANSPORT INFORMATION

DOT CLASS: Flammable Liquid N.O.S.

HAZARD CLASS: 3

UN NUMBER: UN 1993

PACKING GROUP: II

GUIDE NUMBER: 27

PROPER SHIPPING NAME: Flammable Liquid, n.o.s. (xylene, butyl alcohol)

15. REGULATORY INFORMATION

This product is a mixture and each component is listed in the TSCA Inventory of Chemical Substances

16. OTHER INFORMATION

HMIS INFORMATION: HEALTH: 2 FLAMMABILITY: 3 REACTIVE: 0 PROTECTION: 11

SARA TITLE III DATA

N-Butanol (CAS No. 71-36-3), xylene (1330-20-7), and ethyl benzene (100-41-4) are listed as toxic chemicals under Sec. 313 of SARA Title III. Under Sec. 311/312, this product should be reported as an immediate (acute) health hazard, delayed (chronic) health hazard, and a fire hazard.

OTHER ADDITIONAL INFORMATION:

N/A = Not applicable; NDA = No data available

The information contained herein is based on the data available to us and is believed to be accurate. However, Tarr, Incorporated makes no warranty, expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Tarr, Inc. assumes no responsibility for injuries from the use of the product described herein.

Tarr

PRODUCT DATA

COMMITTED TO "RESPONSIBLE DISTRIBUTION"

XYLENE

Gravity:

API	31.3
Specific860
Pounds/Gallon	7.24
Flash Point, TCC °F	81
Distillation Range: °F	
IBP	137.7
10%	137.7
50%	138.0
90%	138.8
DP	139.5
Aniline Pt. °F	50
KB Value	98
Aromatic Content, %	100

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