

ABSOLUTE STANDARDS, INC.

44 Rossotto Dr. Hamden, CT 06514

800-368-1131

Material Safety Data Sheet (MSDS)

May be used to comply with OSHA's Hazard Communication Standard 29 CFR 1910.1200., Section (g)(c)(1). Standard must be consulted for specific requirements. Contact name below for further information.

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072



00001

IDENTITY	CAS #	<i>Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.</i>
Benzene	00071-43-2	

Section I

Manufacturer's Name ABSOLUTE STANDARDS INC	Emergency Telephone Number 1-800-368-1131
Address (Number, Street, City, State, and ZIP Code) 44 Rossotto Dr., Hamden CT, 06514	Telephone Number for Information 1-203-281-2917
	Date Prepared 7/1/94
	Signature of Preparator (optional) Jack Criscio

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity, Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Benzene (Benzol, Phenyl hydride, Coal Naphtha).	3 mg/m3 = 1 ppm	0 mg/m3 = 1 ppr	LD50 (oral-rat)(mg/kg)=4884	> 97
See Attached Certified Weight Report For Other Analytes Present At Trace Quantities.				

Section III - Physical/Chemical Characteristics

Boiling Point	80°C	Specific Gravity (H2O = 1)	0.88
Vapor Pressure (mm Hg)	74.6	Melting Point	6°C
Vapor Density (AIR = 1)	2.77	Evaporation rate (Butyl Acetate = 1)	NA
Solubility in Water 100%			

Appearance and Odor

CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC AROMATIC ODOR.

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) (CLOSED CUP) -11°C	Flammable Limits Auto Ignition Temperature: NA	LEL 1.3%	UEL 8.0%
--	--	--------------------	--------------------

Extinguishing Media

USE ALCOHOL FOAM, DRY CHEMICAL OR CARBON DIOXIDE. (Water may be ineffective)

Special Firefighting Procedures

Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode. Move containers from fire area if it can be done without risk. Use water to keep fire-exposed containers cool. Explosion Data-Sensitivity to Static Discharge: None Identified.

Unusual Fire and Explosion Hazards

Vapor may form along surfaces to distant ignition sources and flash back. Contact with strong oxidizers may cause fire.

Toxic gases produced may include: Carbon monoxide, Carbon dioxide.

Section V - Reactivity Data

Stability	Unstable	Conditions to Avoid
	Stable	X Heat, Flame, Other ignition sources.
Incompatibility (Materials to Avoid) Strong oxidizing agents, Strong acids.		
Hazardous Decomposition or By-products Carbon monoxide, Carbon dioxide.		
Hazardous Polymerization	May Occur	Conditions to Avoid
	Will Not Occur	X Heat, Flame, Other ignition sources.

ABSOLUTE STANDARDS, INC.

44 Rossotto Dr. Hamden, CT 06514

800-368-1131

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation? YES	Skin? YES	Ingestion? YES
Health Hazards (Acute and Chronic)	Chronic effects of overexposure may include central nervous system depression. Kidney damage, Liver damage.		
Target Organs	Respiratory system, lungs, eyes, skin, blood, central nervous system, bone marrow.		
Warning State of California	This product is a chemical known to the state of California to cause cancer.		
Carcinogenicity:	NTP? YES	IARC Monographs? YES	OSHA Regulated? NO
Reproductive Effects	NA		
Signs and Symptoms of Exposure:	Inhalation and ingestion are harmful and may be fatal. Inhalation and ingestion may cause headache, nausea, vomiting, dizziness, lower blood pressure, irritation of respiratory tract, coma, gastrointestinal irritation and unconsciousness. Contact with skin or eyes may cause irritation. Prolonged skin may result in dermatitis. Eye contact may result in temporary corneal damage. Inhalation of vapors may cause severe irritation or burns of the respiratory system, pulmonary edema, or lung inflammation. Irreversible injury to blood forming tissue may result from chronic low level exposure.		
Medical Conditions	Generally Aggravated by Exposure NA		
Emergency and First Aid Procedure	Call a physician. If swallowed, do NOT induce vomiting. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult give oxygen. In case of contact, immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.		

Section VII - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled:	Wear self-contained breathing apparatus and full protective clothing. Shut off ignition sources: no flares, smoking or flames in area. Stop leak if you can do so without risk. Use water spray to reduce vapors. Take up with sand or other non-combustible material and place into container for later disposal. Flush area with water.		
Waste Disposal Method	Dispose in accordance with all applicable federal, state and local environmental regulations. EPA Hazardous Waste Number: D019 (Toxic Waste)		
Hazard Class	Flammable liquid		
Precautions to be Taken in Handling and Storage	Bond and ground containers when transferring liquid. Keep containers tightly closed. Store in a cool, dry, well-ventilated, flammable liquid storage area.		
Other Precautions	Use general or local exhaust ventilation to meet TLV requirements. Storage color code Red Stripe (store separately)		

Section VIII - Control Measures

Respiratory Protection (Specify Type)	Respiratory protection required if airborne concentration exceeds TLV. At concentrations above 200 ppm, a self contained breathing apparatus is advised.		
Ventilation	Local Exhaust	Special	NA
	Mechanical (General)	Other	NA
Protective Gloves	YES		
Other Protective Clothing or Equipment	SAFETY GOGGLES		
Work/Hygienic Practices	GOOD LABORATORY PRACTICES		

Note: NA = Not Applicable or Not Available.

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and the Canadian Workplace Hazardous Materials Information System. This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC. DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-800-368-1131 for assistance.