

MATERIAL SAFETY DATA SHEET

Bromine Index Number Titration Solvent

SECTION 1 . Product and Company Identification

Product Name and Synonym: Bromine Index Number Titration Solvent

Product Code: 1366

Material Uses:

Manufacturer: Science Stuff
1104 Newport Ave

Austin, TX 78753
(512) 837-6020

Entry Date : 5/28/2013

Print Date: 5/28/2013

24 Hour Emergency Assistance : Chemtrec 800-424-9300
Canutec 613-996-6666

Health:	3
Flammability:	2
Reactivity:	1
Hazard Rating:	
Least	Slight
0	1
2	3
4	4
NA=Not Applicable NE=Not Established	

SECTION 2 HAZARD IDENTIFICATION

Causes severe irritation and burns. Harmful if swallowed. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

SECTION 3 MIXTURE COMPONENTS

SARA 313	Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
<input checked="" type="checkbox"/>	1,1,1-Trichloroethane	CAS# 71-55-6	13.4%	V/V	350 ppm OSHA TWA, 450 ppm OSHA STEL
<input type="checkbox"/>	Acetic Acid, Glacial	CAS# 64-19-7	71.4%	V/V	10 ppm OSHA TWA, 15 ppm OSHA STEL
<input type="checkbox"/>	Mercuric Chloride	CAS# 7487-94-7	0.1 - 0.2%	W/V	OSHA TWA 0.1 mg/mf
<input checked="" type="checkbox"/>	Methanol (Methyl Alcohol)	CAS# 67-56-1	13.4%	V/V	OSHA TWA 200 ppm, ACGIH STEL 250 ppm
<input type="checkbox"/>	Potassium Bromide	CAS# 7758-02-3	0.2 - 0.3%	W/V	None Established
<input checked="" type="checkbox"/>	Sulfuric Acid	CAS# 7664-93-9	<0.5%	V/V	OSHA TWA 1 mg/mf, ACGIH STEL 3 ppm
<input type="checkbox"/>	Water, Deionized ASTM Type II	CAS# 7732-18-5	~1%	V/V	None Established

SECTION 4 FIRST AID MEASURES

Causes severe irritation and burns. Harmful if swallowed. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes.

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Wash thoroughly after handling. Keep container closed.

FIRST AID: CALL A PHYSICIAN. SKIN: In case of contact, immediately flush skin with water for at least 15 minutes while removing contaminated clothing and shoes. Thoroughly clean clothing and shoes before reuse.

EYES: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

INGESTION: Give several glasses of milk or water. Vomiting may occur spontaneously, but DO NOT INDUCE! Never give anything by mouth to an unconscious person.

SECTION 5 FIRE FIGHTING MEASURES

Fire Extinguisher Type: Carbon Dioxide, dry chemical powder or appropriate foam

Fire / Explosion Hazards: Vapor may travel considerable distance to source of ignition and flash back.

Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Absorb spill with inert material, then place in a chemical waste container. Dispose of in a manner consistent with federal, local law.

SECTION 7 HANDLING AND STORAGE

Store in a cool, dry, well-ventilated place away from incompatible materials. Wash thoroughly after handling.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: NIOSH/MSHA-approved respirator

Ventilation

Local Exhaust

Mechanical

Protective Gloves: NIOSH Approved Gloves

Eye Protection: Goggles and Face Shield

Other Protective Equipment: Wear appropriate clothing to prevent skin exposure

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Melting Point:	Information not available	Percent Volatile by Volume:	>95
Boiling Point:	Information not available	Evaporation Rate	Information not available
Vapor Pressure:	Information not available	Evaporation Standard	
Vapor Density:	Information not available	Auto Ignition Temp	Information not available
Solubility in Water:	Soluble	Lower Flamm. Limit in Air	Information not available
Appearance /Odors:	Clear liquid with vinegar	Upper Flamm. Limit in Air	Information not available

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odor available

Flash Point: Not established

Specific Gravity: Information not available

SECTION 10 STABILITY AND REACTIVITY INFORMATION

Stability: Stable

Conditions to Avoid: Avoid contact with heat, sparks, flames, or incompatible substances.

Materials to Avoid: Oxidizing agents, metals, bases, amines.

Hazardous Decomposition Products: CO_x, phosgene, chloride fumes, Mercury compounds

Hazardous polymerization: Will Not Occur

Conditions to Avoid: None known

SECTION 11 Toxicological Information

SECTION 12 Ecological Information

SECTION 13 Disposal Considerations

SECTION 14 Transport Information

DOT Classification: Corrosive Liquid, Flammable, n.o.s., (Acetic Acid, Methanol), 8, (3), UN2920, PG II

DOT Regulations may change from time to time. Please consult the most recent D.O.T. regulations.

SECTION 15 Regulatory Information

SECTION 16 Additional Information

Corrosive! Lachrymator! Toxic Properties! Harmful or fatal by inhalation, ingestion or skin contact. Conditions aggravated: Heart rhythm disorders, liver and kidney disease. Acute: Severe irritation or burns to skin, eyes, respiratory system, digestive tract. Central nervous system effects. Circulatory and respiratory effects. Chronic: Dermatitis, eye damage. Target organs: Liver, kidneys, sensitizes the heart to epinephrine.

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Flammability

Health

Reactivity

Revisions

NFPA

0.2

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