
Material Safety Data Sheet

Product Name: **Red-X Indicating Liquid**

Product Part Numbers: **1122, 1178, 3392, 3374 & 1844-28, -38, -49, -59, -70, -74, -240**

This product is a mixture of two or more chemicals as defined under O.S.H.A. standard 29 CFR 1910.1200. An individual MSDS for each chemical ingredient which comprises 1% or greater of the mixture (for Carcinogens concentrations of 0.1% or greater) is included with and is considered as part of the complete material safety data sheet.

Chemical Ingredient No. 1



Common Name:	Tetrabromoethane (TBE)
Chemical Name:	1,1,2,2-Tetrabromoethane
Chemical Formula:	C ₂ H ₂ Br ₄
Percent of Mixture (by volume)	95%
Manufacturer	Broomchemie B.V.
Distributor	Spectrum Laboratory Products, Inc.
MSDS	Attached

Chemical Ingredient No. 2

Common Name:	DuPont Oil Red
Percent of Mixture (by volume)	Less than 1%

The information herein is provided in good faith, but no warranty, either expressed or implied, is made by Petro-Meter Corporation.

Material Safety Data Sheet

NFPA 	HMIS <table border="1"> <tr> <td style="background-color: #00FFFF;">Health Hazard</td> <td style="text-align: center;">2</td> </tr> <tr> <td style="background-color: #FFCCCC;">Fire Hazard</td> <td style="text-align: center;">1</td> </tr> <tr> <td style="background-color: #FFFF00;">Reactivity</td> <td style="text-align: center;">0</td> </tr> </table>	Health Hazard	2	Fire Hazard	1	Reactivity	0	Personal Protective Equipment  See Section 15.
Health Hazard	2							
Fire Hazard	1							
Reactivity	0							

Section 1. Chemical Product and Company Identification		Page Number: 1
Common Name/Trade Name	1,1,2,2-Tetrabromoethane	Catalog Number(s). T1021, T1022
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248	CAS# 79-27-6
Commercial Name(s)	Not available.	RTECS KI8225000
Synonym	sym-Tetrabromoethane; TBE; Tetrabromacetylene; s-Tetrabromoethane; Acetylene tetrabromide	TSCA TSCA 8(b) inventory: 1,1,2,2-Tetrabromoethane
Chemical Name	Ethane, 1,1,2,2-tetrabromo-	CI# Not applicable.
Chemical Family	Alkylated hydrocarbon. (Aliphatic.)	IN CASE OF EMERGENCY CHEMTREC (24hr) 800-424-9300 CALL (310) 516-8000
Chemical Formula	C2-H2-Br4	
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248	

Section 2. Composition and Information on Ingredients					
Name	CAS #	Exposure Limits			% by Weight
		TWA (mg/m ³)	STEL (mg/m ³)	CEIL (mg/m ³)	
1) {1,1,2,2-}Tetrabromoethane	79-27-6	14			100
Toxicological Data on Ingredients 1,1,2,2-Tetrabromoethane: ORAL (LD50): Acute: 1200 mg/kg [Rat]. 269 mg/kg [Mouse]. 400 mg/kg [Rabbit]. DERMAL (LD50): Acute: 5250 mg/kg [Rat].					

Section 3. Hazards Identification	
Potential Acute Health Effects	Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator). Severe over-exposure can result in death.
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to kidneys, liver, skin. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

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Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. WARM water MUST be used. Get medical attention.
Skin Contact	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Serious Inhalation	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
Serious Ingestion	Not available.

Section 5. Fire and Explosion Data

Flammability of the Product	May be combustible at high temperature.
Auto-Ignition Temperature	335°C (635°F)
Flash Points	Not available.
Flammable Limits	Not available.
Products of Combustion	These products are carbon oxides (CO, CO ₂), halogenated compounds.
Fire Hazards in Presence of Various Substances	Slightly flammable to flammable in presence of open flames and sparks, of heat.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
Special Remarks on Fire Hazards	When heated to decomposition it emits highly toxic fumes of carbonyl bromide and bromide. Decomposes at 190 deg. C to also liberate flammable and highly toxic vapors of hydrogen bromide and carbon monoxide
Special Remarks on Explosion Hazards	Not available.

Section 6. Accidental Release Measures

Small Spill	Absorb with an inert material and put the spilled material in an appropriate waste disposal.
Large Spill	Poisonous liquid. Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7. Handling and Storage

Precautions	Keep locked up.. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as metals, alkalis.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8. Exposure Controls/Personal Protection

Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.
Personal Protection	Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Exposure Limits	TWA: 1 (ppm) from ACGIH (TLV) [United States] TWA: 1 (ppm) from OSHA (PEL) [United States] TWA: 14 (mg/m ³) from OSHA (PEL) [United States] TWA: 1 (ppm) from NIOSH [United States] TWA: 1 STEL: 1.5 (ppm) [Canada] TWA: 0.5 (ppm) [United Kingdom (UK)] TWA: 7.2 (mg/m ³) [United Kingdom (UK)] Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical state and appearance	Liquid.	Odor	Camphor and Iodoform
Molecular Weight	345.65 g/mole	Taste	Not available.
pH (1% soln/water)	Not available.	Color	Colorless to light yellow.
Boiling Point	243.5°C (470.3°F)		
Melting Point	0°C (32°F)		
Critical Temperature	Not available.		
Specific Gravity	2.9656 (Water = 1)		
Vapor Pressure	0 kPa (@ 20°C)		
Vapor Density	11.9 (Air = 1)		
Volatility	Not available.		
Odor Threshold	Not available.		
Water/Oil Dist. Coeff.	Not available.		
Ionicity (in Water)	Not available.		
Dispersion Properties	See solubility in water, diethyl ether, acetone.		
Solubility	Soluble in acetone. Very slightly soluble in cold water, hot water. Miscible in ethanol, ether, chloroform, aniline, acetic acid. Soluble in benzene. slightly soluble in carbon tetrachloride. Solubility in Water: 678 mg/l @ 25 deg. C; 0.065 g/100 ml @ 30 deg. C; 0.28 g/100 g @ 80 deg. C.		

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Section 10. Stability and Reactivity Data

Stability	The product is stable.
Instability Temperature	Not available.
Conditions of Instability	Excess heat, incompatible materials
Incompatibility with various substances	Reactive with metals, alkalis.
Corrosivity	Non-corrosive in presence of glass.
Special Remarks on Reactivity	Incompatible with active metals, reducing metals such as aluminum, magnesium and zinc, strong caustics, hot iron, or zinc in the presence steam.
Special Remarks on Corrosivity	Not available.
Polymerization	Will not occur.

Section 11. Toxicological Information

Routes of Entry	Absorbed through skin. Eye contact. Ingestion.
Toxicity to Animals	WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 269 mg/kg [Mouse]. Acute dermal toxicity (LD50): 5250 mg/kg [Rat]. Acute toxicity of the vapor (LC50): 549 mg/m ³ 4 hours [Rat].
Chronic Effects on Humans	MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast. May cause damage to the following organs: kidneys, liver, skin.
Other Toxic Effects on Humans	Hazardous in case of skin contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator).
Special Remarks on Toxicity to Animals	Lethal Dose/Conc 50% Kill: LD50[Guinea Pig] - Route: Oral; Dose: 400 mg/kg
Special Remarks on Chronic Effects on Humans	May affect genetic material (mutagenic). May cause cancer based on animal test data
Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects: Skin: Causes moderate skin irritation. It can be absorbed through the skin and cause systemic effects. Eyes: Causes mild to moderate eye irritation with pain and slight irritation of the conjunctiva. It may cause superficial, transitory corneal injury which disappears within 24 hours. Inhalation: Inhalation of high concentrations of mist or vapor can cause upper respiratory tract irritation. It can affect behavior/central nervous system with symptoms such as central nervous system depression, headaches, fatigue, lightheadness, dizziness, drowsiness, seizures, fainting. It may cause pulmonary edema. It may also cause stomach pain, nausea, and vomiting, and anorexia and affect the liver, kidneys, and blood (monocytosis). Yellowing of the skin can result from liver damage, and dark urine can result from kidney damage. Ingestion: Harmful if swallowed. It can cause nausea, stomach pain, vomiting and other symptoms similar to that of acute inhalation. It may affect behavior/central nervous system (symptoms similar to that of acute inhalation) Chronic Potential Health Effects: Inhalation: Prolonged or repeated inhalation may affect the lungs and may cause liver damage (liver function tests impaired, fatty liver degeneration, hepatitis) and kidney damage. It may also affect metabolism and cause weight loss. Skin: Prolonged or repeated skin contact may cause drying and cracking of the skin.


Section 12. Ecological Information

Ecotoxicity	Ecotoxicity in water (LC50): 19 mg/l 48 hours [Fish (Orange-red killifish)].
BOD5 and COD	Not available.
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation	The products of degradation are as toxic as the product itself.
Special Remarks on the Products of Biodegradation	Not available.

Section 13. Disposal Considerations

Waste Disposal	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
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Section 14. Transport Information

DOT Classification	CLASS 6.1: Poisonous material.
Identification	: Tetrabromoethane UNNA: 2504 PG: III
Special Provisions for Transport	Marine Pollutant
DOT (Pictograms)	

Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations	Illinois toxic substances disclosure to employee act: 1,1,2,2-Tetrabromoethane Rhode Island RTK hazardous substances: 1,1,2,2-Tetrabromoethane Pennsylvania RTK: 1,1,2,2-Tetrabromoethane Minnesota: 1,1,2,2-Tetrabromoethane Massachusetts RTK: 1,1,2,2-Tetrabromoethane Massachusetts spill list: 1,1,2,2-Tetrabromoethane New Jersey: 1,1,2,2-Tetrabromoethane California Director's List of Hazardous Substances: 1,1,2,2-Tetrabromoethane TSCA 8(b) inventory: 1,1,2,2-Tetrabromoethane
California Proposition 65 Warnings	California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: No products were found. California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: No products were found.
Other Regulations	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances (EINECS No. 201-191-5). Canada: Listed on Canadian Domestic Substance List (DSL). China: Listed on National Inventory. Japan: Listed on National Inventory (ENCS). Korea: Listed on National Inventory (KECI). Philippines: Listed on National Inventory (PICCS). Australia: Listed on AICS.
Other Classifications	WHMIS (Canada) CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC). CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

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DSCL (EEC)

R26- Very toxic by inhalation.
 R36- Irritating to eyes.
 R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S24- Avoid contact with skin.
 S27- Take off immediately all contaminated clothing.
 S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
 S61- Avoid release to the environment. Refer to special instructions/Safety data sheets.

HMIS (U.S.A.)

Health Hazard	2
Fire Hazard	1
Reactivity	0
Personal Protection	h

National Fire Protection Association (U.S.A.)

Health  Flammability
 Reactivity
 Specific hazard

WHMIS (Canada) (Pictograms)



DSCL (Europe) (Pictograms)



TDG (Canada) (Pictograms)



ADR (Europe) (Pictograms)



Protective Equipment



Gloves.



Lab coat.



Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.



Splash goggles.

Section 16. Other Information**MSDS Code** T3180**References** Not available.**Other Special Considerations** Major Uses: Separating minerals by specific gravity (liquid in specific gravity separation of solids-EG, ores); solvent for fats, oils, and waxes; solvent in microscopy; mercury substitute in gauges and balances; catalyst or catalytic initiator in synthetic fibers; polymer additive in flame-proof, flame-retardant polystyrenes, polyurethanes, and polyolefins; catalyst in production of Terephthalic acid from p-Xylene; level in sight gauges

Validated by Sonia Owen on 10/19/2006.

Verified by Sonia Owen.

Printed 10/19/2006.

CALL (310) 516-8000

Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.



MATERIAL SAFETY DATA SHEET

Product

Tetrabromoethane (TBE)

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MSDS code: 2360

Version: 1

Date 24/04/1995

Identification of the substance & the company

Chemical Name	1,1,2,2-Tetrabromoethane
Chemical formula	C ₂ HBr ₄
CAS number	79-27-6
Molecular weight	345.7
Type of product and use	For use in polymer/polyester fiber industry and for mineral separation
Company identification	Broomchemie B.V.
Address and telephone	P.O. Box 318, 4530 AH Terneuzen, The Netherlands, Tel. (0931) 1150-89000
Emergency telephone number: -For USA	Chemtrec (800)424-9300

Composition/information on ingredients

Hazardous component(s)	1,1,2,2-Tetrabromoethane - 98.6%
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Physical and chemical properties

Appearance	Colourless to yellowish liquid with a sweet pungent odour.
Melting point/range	1°C +-1°C
Boiling point/range	119°C (at 15 mmHg) 150°C (at 50 mm Hg)
Specific gravity	2.96
Vapour pressure	0.04 mm Hg at 24°C
Relative vapour density (air=1)	11.92
Evaporation rate (ether = 1)	>100
Solubility:	
- Solubility in water	0.063 gr/1000ml at 20°C 0.28 gr/1000ml at 80°C
-Solubility in other Solvents	Soluble in most organic solvents
Thermal decomposition	From ca. 239°C

Hazards identification

Adverse human health effects	Very toxic by inhalation TBE is central nervous system depressant and a hepatotoxin. Irritant to eyes, skin and mucous membranes
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Fire - fighting measures

Flash point	None
Auto-ignition temperature	335°C

MATERIAL SAFETY DATA SHEET

Product
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Flammable/Explosion limits	Non flammable
Extinguishing media	Material is non combustible. Use extinguishing media appropriate to surrounding fire conditions.
Fire fighting procedure	Cool containers with water spray. In closed stores, provide fire-fighters with self-contained breathing apparatus in positive pressure mode.
Unusual fire and explosion hazards	Will decompose from ca. 239°C releasing poisonous and corrosive fumes of Hydrogen bromide, bromine and carbonyl bromide.

Toxicological information

Toxicity:

-Rat oral LD50	1200 mg/kg
-Rat dermal LD50	5250 mg/kg
-Rat inhalation LC50	549 mg/m ³ /4 hour

Effects of overexposure:

-Ocular	Irritant
-Dermal	Irritant
- Inhalation	Irritant to upper respiratory tract. Symptoms of overexposure may include headache, abdominal cramps, vomiting, anorexia, drowsiness, yellowing of the skin, dark urine and unconsciousness in severe cases. May cause bilirubinrla, moncytosis, pulmonary edema, liver and kidney damage.
-Ingestion	Irritant to mucous membranes. Symptoms as of inhalation.
Carcinogenicity	Not classified by IARC. Not included in NTP 7th Annual Report on Carcinogens.
Mutagenicity	Mutagenic by the Ames Test Was found mutagenic in DNA repair test with E. coli. Was found clastogenic in sister chromatid exchange with Chinese hamster ovary cells.
Chronic toxicity	Prolonged exposure may cause liver and kidney damage.

First-aid measures

Eye contact	Holding the eyelids apart, flush eyes promptly with copious flowing water for at least 20 minutes. Get medical attention immediately.
Skin contact	Remove contaminated clothing. Wash clothing before re-use. Get medical attention immediately.
Inhalation	In case of mist inhalation or breathing fumes released from heated material, remove person to fresh air.

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Ingestion

Keep him quiet and warm. Apply artificial respiration if necessary and get medical attention immediately.

If swallowed, wash mouth thoroughly with plenty of water and give water or milk to drink. Get medical attention immediately.

NOTE: Never give an unconscious person anything to drink.

Ecological information

Information on ecological effects

-LC50, fish

-BOD

Bioaccumulative potential

TBE is classified by IMO as a Marine Pollutant

19mg/l, 48 Hours (orange red-killifish)

29.0% (2 weeks)

BCF 0.5 ~ 7.0 (10 ug/l, 6 weeks)

BCF <2.9~8.2 (ug/l, 6 weeks)

Stability and reactivity

Stability

Materials to avoid

Conditions to avoid

Hazardous decomposition

-products

Hazardous polymerization

Stable under normal conditions

Reacts with chemically active metals or strong caustics.

In the presence of steam, contact with hot iron, aluminum and zinc may cause the formation of toxic vapours.

Softens or destroys most plastics and rubbers.

High temperatures

Hydrogen bromide, bromine and carbonil bromide

Will not occur

Accidental release measures

Personal precautions

After spillage/leakage

Evacuate area.

Full protective clothing, including self-contained breathing apparatus, must be used.

Absorb on sand or vermiculite and place in closed container for disposal.

Ventilate area and wash spill site after material pickup is complete.

Disposal considerations

Waste disposal

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Observe all federal, state and local environmental regulations when disposing of this material.

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Exposure controls/personal protection

Exposure limits:

-TLV-TWA 1ppm (14mg/m³)

Ventilation requirements Mechanical exhaust required.
Ventilation must be sufficient to maintain atmospheric concentration below TLV.

Personal protection equipment:

-Respiratory protection Approved respirator

- Gloves Protective gloves

- Eye protection Chemical safety goggle

- Others Body covering clothes and boots

industrial hygiene Safety shower and eyebath should be provided. Do not eat, drink or smoke until after-work showering and changing clothes

Handling and storage

Handling Keep containers tightly closed.

Avoid breathing vapours and any other bodily contact.

Storage Store in a dry, cool, well-ventilated area away from incompatible materials (see "materials to avoid")

Transportation information

UN No. 2504

IMO-IMDG code Proper shipping name: TETRABROMOETHANE

Class: 6.1 - Toxic substances

Packing Group: III

Label: Toxic (6)

Marking: MARINE POLLUTANT
(IMDG CODE - 6263, amdt.27-94)

ICAO/IATA Class:6.1

Packing Group: III

US DOT Proper shipping name: TETRABROMOETHANE

Class: 6.1 - Poisons

Packing Group: III

Label: HARMFUL - Stow Away from Foodstuffs (6)
or POISON (6) OR TOXIC (6)

Marking: MARINE POLLUTANT

REGULATORY INFORMATION

USA

Reported in the EPA TSCA Inventory

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