
Material Safety Data Sheet

Product Name: **Red Indicating Liquid**

Product Part Number: **2992**

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:C₂H₂Br₄
Percent of Mixture (by volume).....95%
Manufacturer..... ICL-IP Terneuzen (formerly Broomchemie B.V.)
Distributor..... Morre-Tec Industries, Inc.
MSDS.....Attached

Chemical Ingredient No. 2

Common Name:Heptyl Alcohol
Chemical Name:..... 1-Heptanol, 98%
Chemical Formula:n/a
Percent of Mixture (by volume).....5%
Manufacturer.....Acros Organics
Distributor.....Pfaltz & Bauer
MSDS.....Attached

Chemical Ingredient No. 3

Common NameSolvisol Red Dye
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 King Engineering Corporation.



MATERIAL SAFETY DATA SHEET

| | | |
|---------------|-------------------------------|-------------|
| Product Name | Tetrabromoethane (TBE) | |
| Product id | 2360 | |
| Revision date | 21/10/2010 | Revision: 7 |
| Supersedes | 14/02/2008 | |

1. Identification of the substance & the company

| | |
|-------------------------|---|
| Chemical name | 1,1,2,2-Tetrabromoethane |
| Synonym(s) | Acetylene tetrabromide, Ethane, 1,1,2,2-tetrabromo- |
| Chemical formula | $C_2H_2Br_4$ |
| Molecular weight | 345.7 |
| Type of product and use | For use in polymer/polyester fiber industry and for mineral separation |
| Supplier | ICL-IP America Inc. 95 MacCorkle Ave. SW, South Charleston, WV 25303-1411, USA Tel: (304) 720-3950 Fax: (304) 746-3101 |
| Emergency Telephone | Chemtrec (800)424-9300 |

2. Hazards identification

| | |
|---------------------------------|--|
| Emergency overview | <i>Colourless to yellowish liquid with a sweet pungent odour. Very toxic by inhalation Irritant to eyes, skin and mucous membranes TBE is a central nervous system depressant and a hepatotoxin.</i> |
| Potential Health Effects: | |
| - Eye Contact | Irritant |
| - Skin contact | 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 bilirubinuria, monocytosis, pulmonary edema, liver and kidney damage. |
| - Ingestion | Irritant to mucous membranes Symptoms as of inhalation. |
| Chronic effects/Carcinogenicity | Prolonged exposure may cause liver and kidney damage. |



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NFPA Ratings (Scale 0-4) Health = 3, Fire = 0, Reactivity = 1.

3. Composition / information on ingredients

| Components | CAS No. | Weight % |
|--------------------------|---------|----------|
| 1,1,2,2-TETRABROMOETHANE | 79-27-6 | 98.6 |

4. 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 skin thoroughly with mild soap and plenty of water for at least 15 minutes. 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. Keep him quiet and warm. Apply artificial respiration if necessary and get medical attention immediately.

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

NOTE: Never give an unconscious person anything to drink.

Notes to the physician No specific antidote. Treat symptomatically and supportively. In case of ingestion DO NOT induce vomiting. Signs and symptoms of toxicity are primarily referable to the CNS, respiratory tract .



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5. Fire - fighting measures

Suitable extinguishing media Material is not 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.

6. Accidental release measures

Personal precautions Evacuate area.
Full protective clothing, including self-contained breathing apparatus, must be used.

Methods for cleaning up Absorb on sand or vermiculite and place in closed container for disposal.
Ventilate area and wash spill site after material pickup is complete.

7. 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").

8. Exposure controls / personal protection

Exposure Limits :

| Components | ACGIH-TLV Data | OSHA (PEL) Data |
|-------------------------------------|----------------|-----------------------------|
| 1,1,2,2-TETRABROMOETHANE 79-27-6 | 0.1 ppm | 1 ppm, 14 mg/m ³ |

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Ventilation requirements Mechanical exhaust required.
Ventilation must be sufficient to maintain atmospheric concentration below recommended exposure limit.

Personal protective equipment:

| | |
|----------------------------|---------------------------------|
| - Respiratory protection | Approved respirator |
| - Hand protection | Protective gloves |
| - Eye protection | Chemical safety goggles |
| - Skin and body protection | Body covering clothes and boots |

Hygiene measures Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking.
Safety shower and eye bath should be provided.

9. Physical and chemical properties

| | |
|-----------------------------------|---|
| Appearance | Colourless to yellowish liquid with a sweet pungent odour. |
| Boiling point/range | 119°C (15mmHg) & 150°C (50 mmHg) |
| Melting point/range | 1 °C ±1°C |
| Flash point | None |
| Flammable/Explosion limits | Not flammable |
| Auto-ignition temperature | 335°C |
| Vapour pressure | 0.04 mmHg (24°C) |
| Evaporation rate (ether=1) | Not available |
| Vapor density | 11.92 |
| Viscosity | Not determined |
| Solubility: | |
| - Solubility in water | 0.063 g/100ml at 20°C 0.28 gr/100ml at 80°C |
| - Solubility in other solvents | Soluble in most organic solvents |
| Specific gravity | 2.96 |
| pH | Not available |
| Decomposition temperature | 239°C |
| Explosive properties | Not available |
| Oxidising properties | Not available |
| Particle size: | Not applicable Substance is a liquid, thus test not relevant |



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10. Stability and reactivity

| | |
|---|---|
| Stability | Stable under normal conditions. |
| Materials to avoid | Reacts with chemically active metals or strong caustics. In the presence of steam, contact with hot iron, aluminium and zinc may cause formation of toxic vapours. Softens or destroys most plastics and rubbers. |
| Conditions to avoid | Heating above decomposition temperature |
| Hazardous decomposition products | Hydrogen bromide, bromine and carbonyl bromide |
| Hazardous polymerization | Will not occur |

11. Toxicological information

| | |
|------------------------------|---|
| Acute toxicity: | |
| - Rat oral LD50 | 1200 mg/kg |
| - Rat dermal LD50 | 5250 mg/kg |
| - Rat inhalation LC50 | 549 mg/m ³ /4 hour |
| Chronic toxicity | Prolonged exposure may cause liver and kidney damage. |
| Mutagenicity | Mutagenic by the Ames Test Was found mutagenic in DNA repair test with E. coli. Was found clastogenic in sister chromatid exchange test with Chinese hamster ovary cells. |
| Carcinogenicity | Not classified by IARC Not included in NTP 11th Report on Carcinogens |
| Reproductive toxicity | No information available |

12. Ecological information

| | |
|----------------------------------|--|
| Aquatic toxicity : | Aquatic toxicity : |
| - LC50, fish | 19 mg/l, 48 Hours (orange red-killifish) |
| - BOD % of TOD | 29% (2 weeks) |
| Bioaccumulative potential | BCF 0.5~7.0 (10 ug/l, 6 weeks) BCF <2.9~8.2 (1 ug/l, 6 weeks) |



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13. Disposal considerations

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

14. Transportation information

| | |
|------------------|---|
| UN No. | 2504 |
| DOT | Proper shipping name: TETRABROMOETHANE Packing Group: III Class: 6.1 - Poisons Marking: Marine Pollutant Label: TOXIC (6.1) Emergency Guide No.159 |
| IMO | Proper shipping name: TETRABROMOETHANE Class: 6.1 Toxic substances Label: TOXIC (6.1) Marking: Marine Pollutant Packing Group: III |
| ICAO/IATA | Proper shipping name: TETRABROMOETHANE Class: 6.1 Hazard Label (s): Toxic Packing group: III |

15. Regulatory information

| | |
|---|-------------------------------------|
| USA | Reported in the EPA TSCA Inventory. |
| - Massachusetts right-to-know list | Listed |
| - New Jersey right-to-know list | Listed |
| - Pennsylvania right to know list | Listed |
| - Illinois toxic substances list | Listed |
| - Rhode Island right-to-know list | Listed |



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| | |
|------------------------------|---|
| Canada | Listed in DSL |
| -WHMIS hazard class | D1B toxic materials D2A very toxic materials |
| EU | Reported in EINECS |
| EC No. | 201-191-5 |
| Japan | ENCS No. 2-77 ISHL No. 2-77 |
| Australia | Listed in AICS |
| New Zealand Inventory | Listed in NZIoC |
| China inventory | Listed |
| Korea | Listed in ECL (KE-33261) |
| Philippines | Listed in PICCS |
| Switzerland | Listed in Giftliste 1 (G-2914) |



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16. Other information

This data sheet contains changes from the previous version in section(s)
9, 13

Health, Safety & Environment Policy

We will strive to ensure that our operations and products meet the needs of the present global community without compromising the ability of future generations to meet their needs
We accept that the success of our business is dependent on the supply of products and services that will benefit society whilst ensuring human safety and protection of the environment and natural resources
Within the framework of our commitment to the Responsible Care program, we will provide a healthy and safe work environment for employees and will responsibly manage our products at all stages of their life cycle in order to protect human health and the environment whilst maintaining high production standards of operation

TO MEET THIS COMMITMENT WE WILL:

- Comply with or exceed applicable national and international regulatory requirements and other requirements to which we subscribe
- Communicate openly and actively encourage dialogue with employees, customers and community concerning our products and operations
- Implement documented management systems consistent with and for promotion of the Responsible Care ethics
- Develop and supply products that can be manufactured, transported, used and disposed of safely whilst best meeting the needs of our customers
- Regularly assess, continually improve and responsibly manage health, safety and environmental risks associated with products and processes throughout their life-cycles
- Share knowledge and expertise with others and seek to learn from and incorporate improved practices into our own operations
- Educate and train employees, contractors and customers to improve their HSE performance
- Communicate up-to-date information to enable our workers, customers and other interested parties to handle our products in a safe and environmentally responsible manner
- Endeavor to work with customers, suppliers, distributors and contractors to foster the safe use, transport and disposal of our chemicals
- Support Product Stewardship programs in cooperation with customers, distributors and transporters

Although the information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof, Bromine Compounds Ltd. makes no representations as to the completeness or accuracy thereof.

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In an event of discrepancy between the contents of this MSDS and the English version of it, the English version shall prevail.

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End of safety data sheet

SAFETY DATA SHEET

Revision Date 16-Nov-2010

Revision Number 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Description: 1-Heptanol
Cat No. 120360000; 120360010; 120360050; 120362500
Synonyms Heptyl alcohol

Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Laboratory chemicals
Uses advised against No Information available

Details of the supplier of the safety data sheet

Company

Acros Organics BVBA
Janssen Pharmaceuticaaan 3a
2440 Geel, Belgium

E-mail address begel.sdsdesk@thermofisher.com

Emergency Telephone Number

For information in the US, call: 800-ACROS-01
For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99
Emergency Number, US: 201-796-7100

CHEMTREC Phone Number, US: 800-424-9300
CHEMTREC Phone Number, Europe: 703-527-3887

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

REGULATION (EC) No 1272/2008

| | |
|------------------------------------|-------------|
| Acute dermal toxicity | Category 4 |
| Acute Inhalation Toxicity - Vapors | Category 4 |
| Serious Eye Damage/Eye Irritation | Category 2A |

Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R phrases mentioned in this Section, see Section 16

Symbol(s) Xn - Harmful
R -phrase(s) R36 - Irritating to eyes
Risk Combination Phrases R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed

Label Elements

(Too many files)

(Too many files)

Signal Word Warning

Hazard Statements

H312 - Harmful in contact with skin
 H319 - Causes serious eye irritation
 H332 - Harmful if inhaled

Precautionary Statements - EU (§28, 1272/2008)

P280 - Wear protective gloves/protective clothing/eye protection/face protection
 P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
 P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 P280 - Wear protective gloves/protective clothing/eye protection/face protection
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Other Hazards

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Component | EC No. | Weight % | CAS-No | Classification | GHSCLAS | REACH Reg. No. |
|------------------------------|-----------|----------|----------|--------------------------|--|----------------|
| n-Heptyl alcohol 111-70-6 | 203-897-9 | 98 | 111-70-6 | Xn; R20/21/22 Xi; R36 | Eye Irrit. 2 (H319) Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332) | - |

For the full text of the R phrases mentioned in this Section, see Section 16

4. FIRST AID MEASURES

Description of first aid measures

| | |
|---------------------------|--|
| Eye Contact | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes Obtain medical attention |
| Skin Contact | Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes Obtain medical attention |
| Ingestion | Do not induce vomiting Clean mouth with water Get medical attention |
| Inhalation | Remove from exposure, lie down Move to fresh air If breathing is difficult, give oxygen If not breathing, give artificial respiration Obtain medical attention |
| Notes to Physician | Treat symptomatically |

5. FIRE-FIGHTING MEASURES

Extinguishing media**Suitable Extinguishing Media**

Carbon dioxide (CO₂) Dry chemical Use water spray to cool unopened containers chemical foam Do not use a solid water stream as it may scatter and spread fire

Extinguishing media which must not be used for safety reasons

No information available.

Special hazards arising from the substance or mixture

Combustible material Flammable

Advice for fire-fighters

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

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation

Environmental precautions

Prevent further leakage or spillage if safe to do so

Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust) Keep in suitable and closed containers for disposal

7. HANDLING AND STORAGE**Precautions for Safe Handling**

Avoid contact with skin and eyes Do not breathe dust Do not breathe vapors or spray mist

Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place Keep container tightly closed Keep away from heat and sources of ignition

Specific End Uses**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Control parameters****Exposure limits**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL)

No information available.

Predicted No Effect Concentration (PNEC)

No information available.

Exposure controls**Engineering Measures**

Ensure adequate ventilation, especially in confined areas Ensure that eyewash stations and safety showers are close to the workstation location

Personal protective equipment**Ey e Protection**

Goggles

Hand Protection

Protective gloves

Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure

Respiratory Protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice

Environmental exposure controls

No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|----------------------------|---------------------------|
| Physical State | Liquid |
| Appearance | Clear |
| odor | slight |
| pH | No information available. |
| Vapor Pressure | 0.5 mbar @ 20 °C |
| Vapor Density | 3.9 |
| Boiling Point/Range | 176°C / 348.8°F@ 760 mmHg |
| Melting Point/Range | -35°C / -31°F |
| Flash Point | 73°C / 163.4°F |
| Water Solubility | 2.85 g/L (100°C) |
| Specific Gravity | 0.822 |
| Molecular Formula | C7 H16 O |
| Molecular Weight | 116.2 |

10. STABILITY AND REACTIVITY

Reactivity

Chemical Stability

Stable under normal conditions.

Possibility of Hazardous Reactions

Hazardous Polymerization

Hazardous polymerization does not occur.

Hazardous Reactions .

No information available.

Conditions to Avoid

Incompatible products.

Incompatible Materials

Strong oxidizing agents, Strong acids, Acid anhydrides, Acid chlorides.

Hazardous Decomposition Products

Carbon monoxide (CO). Carbon dioxide (CO₂).

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity

Product Information

No acute toxicity information is available for this product

Component Information

Component

n-Heptyl alcohol

| LD50 Oral | LD50 Dermal | LC50 Inhalation |
|-------------------|-------------------|-----------------|
| 500 mg/kg (Rat) | 2 g/kg (Rabbit) | |

Chronic Toxicity

Carcinogenicity

There are no known carcinogenic chemicals in this product

| | |
|--|---|
| Sensitization | No information available. |
| Mutagenic Effects | No information available |
| Reproductive Effects | No information available. |
| Developmental Effects | No information available. |
| Target Organs | No information available. |
| Other Adverse Effects | The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information |
| Endocrine Disruptor Information | None known |

12. ECOLOGICAL INFORMATION

Toxicity

Ecotoxicity effects Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants

| Component | Freshwater Algae | Freshwater Fish | Microtox | Water Flea |
|------------------|------------------|------------------------|----------|------------|
| n-Heptyl alcohol | | 33.1-36 mg/L LC50 96 h | | |

Persistence and degradability

No information available

Bioaccumulative potential

No information available.

Mobility in soil

No information available.

Results of PBT and vPvB assessment

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from Residues / Unused Products Dispose of in accordance with local regulations

Contaminated Packaging

Empty containers should be taken for local recycling, recovery or waste disposal

14. TRANSPORT INFORMATION

IMDG/IMO

| | |
|-----------------------------|--------------------------------|
| UN-No | UN2810 |
| Hazard Class | 6.1 |
| Packing Group | III |
| Proper Shipping Name | TOXIC LIQUIDS, ORGANIC, N.O.S. |

ADR

Not regulated

IATA

| | |
|----------------------|--------|
| UN-No | UN2810 |
| Hazard Class | 6.1 |
| Packing Group | III |

14. TRANSPORT INFORMATION

Proper Shipping Name TOXIC LIQUIDS, ORGANIC, N.O.S.

15. REGULATORY INFORMATION**Safety, health and environmental regulations/legislation specific for the substance or mixture****International Inventories**

| Component | EINECS | ELINCS | NLP TSCA | DSL | NDSL | PICCS | ENCS | CHINA | AICS | KECL |
|------------------|-----------|--------|----------|-----|------|-------|------|-------|------|---------------|
| n-Heptyl alcohol | 203-897-9 | - | | X | X | - | X | X | X | KE-18302 X |

Legend**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory**EINECS/ELINCS** - European Inventory Lists**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List**PICCS** - Philippines Inventory of Chemicals and Chemical Substances**ENCS** - Japan Existing and New Chemical Substances**CHINA** - China Inventory of Existing Chemical Substances**AICS** - Inventory of Chemical Substances**KECL** - Existing and Evaluated Chemical Substances**Chemical Safety Assessment****16. OTHER INFORMATION****Text of R phrases mentioned in Section 2-3**

R36 - Irritating to eyes

R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed

Revision Date 16-Nov-2010

Revision Summary Not applicable

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text

End of Safety Data Sheet