

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifiers

Product name : TBPH, Uniplex FRP-45, Pyrionil 45
 Product number : BT1004
 CAS No. : 26040-51-7

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

Identified uses : Laboratory chemicals, Manufacture of substances

Details of the supplier of the safety data sheet

Supplier : Gojira Fine Chemicals, LLC
 5386 Majestic Parkway, Suite 7
 Bedford Heights, OH 44146
 Telephone : 216-650-3363
 Email : docsupport@gojiraafc.com
 Fax : 888-211-5523
 Emergency Phone # : 800-424-9300

2. Hazards identification

Physical state : Liquid.
Odor : Characteristic.
Color : Clear. Yellow.
Emergency overview : NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.
Routes of entry : Dermal contact. Eye contact. Inhalation. Ingestion.
Medical conditions aggravated by over-exposure : Pre-existing respiratory, skin and eye disorders and disorders involving any other target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

Potential acute health effects / Over-exposure signs/symptoms

Inhalation : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.
Skin : No known significant effects or critical hazards.
Eyes : No known significant effects or critical hazards.

Potential chronic health effects

Chronic effects : No known significant effects or critical hazards.
Carcinogenicity : No carcinogenic substances as defined by IARC, NTP and/or OSHA.

3. Composition/information on ingredients

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

<u>Name</u>	<u>CAS number</u>	<u>%</u>
No hazardous ingredient		

4. First aid measures

- Eye contact** : Check for and remove any contact lenses. In case of contact flush eyes with plenty of luke warm water. Get medical attention if symptoms occur.
- Skin contact** : Wash with plenty of soap and water. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Inhalation** : Move exposed person to fresh air. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
- Notes to physician** : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. Fire-fighting measures

Extinguishing media

- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** : None known.
- Special exposure hazards** : Treat as burning oil. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
halogenated compounds
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

- Personal precautions** : No action shall be taken involving any personal risk or without suitable training.
- Spill and Leak Procedures.** : Remove product layered on water by mechanical means. Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Cover spill with inert material (e.g. dry sand or earth) and collect for proper disposal.

7. Handling and storage

- Handling** : Product may congeal or stratify if cold. Warm to 30C (86F) and mix well before using. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.
- Storage** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection

No exposure limit value known.

Consult local authorities for acceptable exposure limits.

- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
- Engineering measures** : No special ventilation requirements.

8. Exposure controls/personal protection

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection

Respiratory : In case of insufficient ventilation, wear suitable respiratory equipment. NIOSH approved, air-purifying organic vapor respirator.

Hands : Permeation resistant gloves.

Eyes : splash goggles

Skin : Wear cloth work clothing including long pants and long-sleeved shirts. Suitable protective footwear.

9. Physical and chemical properties

Physical state : Liquid.

Flash point : Open cup: >265.56°C (>510°F)

Color : Clear. Yellow.

Odor : Characteristic.

Boiling/condensation point : >400°C (>752°F)

Specific gravity : 1.5

Vapor pressure : <0 hPa (20°C)

Solubility : Insoluble in the following materials: cold water.

10. Stability and reactivity

Chemical stability : The product is stable.

Conditions to avoid : Strong alkalis may cause hydrolysis and the release of bromine

Materials to avoid : No specific data.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

11. Toxicological information

Acute toxicity

No information available.

12. Ecological information

Aquatic ecotoxicity

No information available.

13. Disposal considerations

- Waste disposal** : Waste disposal should be in accordance with existing federal, state, provincial and/or local environmental controls. The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way.
- RCRA classification** : : If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	-	-	-	-		Not regulated.
IMDG Class	-	-	-	-		Not regulated.
IATA-DGR Class	-	-	-	-		Not regulated.

PG* : Packing group

RQ : 0 lbs

15. Regulatory information

HAZCOM Standard Status : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

SARA Section 311/312 Hazard Categories : None

<u>Ingredient name</u>	<u>CAS number</u>	<u>Concentration (%)</u>
: None		

SARA Title III Section 302 Extremely Hazardous Substances

<u>Ingredient name</u>	<u>CAS number</u>	<u>Concentration (%)</u>
: None		

SARA Title III Section 313 Toxic Chemicals : None

<u>Ingredient name</u>	<u>CAS number</u>	<u>RQ</u>

US EPA CERCLA Hazardous Substances (40 CFR 302.4) : None

State regulations

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections on the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

<u>Ingredient name</u>	<u>CAS number</u>	<u>State Code</u>	<u>Concentration (%)</u>

15. Regulatory information

1,2-Benzenedicarboxylic acid, 3,4,5,6-tetrabromo-, 1,2-bis(2-ethylhexyl) ester 26040-51-7 >96
 Benzoic acid, 2,3,4,5-tetrabromo-, 2-ethylhexyl ester 183658-27-7 <4
 Massachusetts Substances: MA - S
 Massachusetts Extraordinary Hazardous Substances: MA - Extra HS
 New Jersey Hazardous Substances: NJ - HS
 Pennsylvania RTK Hazardous Substances: PA - RTK HS
 Pennsylvania Special Hazardous Substances: PA - Special HS

California Prop. 65

To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

U.S. Toxic Substances Control Act : Listed on the TSCA Inventory.

16. Other information

Hazardous Material Information System	:		1
		Flammability	1
		Physical hazards	0

0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme
 *=Chronic

The customer is responsible for determining the PPE code for this material.

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



0= Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

Contact person : Product Safety and Regulatory Affairs
Date of issue : 02-21-2012
Date of previous issue : 02-21-2012
Version : 3

Further information

The above information is believed to be accurate and represents the best information currently available to Gojira Fine Chemicals. However, we make no warranty or merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Gojira Fine Chemicals be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Gojira Fine Chemicals has been advised of the possibility of such damages.