Tetrabromoethane

Company Information

Sunchem Co.,Ltd.

Add: A-11F, 186 Yangtzi Middle Road, Yangzhou, China.

Tel:+86 514 87851548

Fax:+86 514 87872867

Email: info@sunchemgroup.com

Product Identification

[Product Name]

1,1,2,2-Tetrabromoethane

[Synonyms]

1,1,2,2-Tetrabromoethane Muthmans liquid sym-Tetrabromoethane

[CAS]

79-27-6

[Formula]

C2H2Br4

[Molecular Weight]

345.7

[EINECS]

201-191-5

[RTECS]

KI8225000

[RTECS Class]

Tumorigen; Mutagen; Primary Irritant

[Merck]

```
12,9328
```

[Beilstein/Gmelin]

1098321

[Beilstein Reference]

4-01-00-00162

[EC Index Number]

602-016-00-9

[EC Class]

Very toxic; Irritant; Dangerous for the Environment

Physical and Chemical Properties

[Appearance]

Pale-yellow liquid with a pungent odor similar to camphor or iodoform. A solid below 0 deg c.

[Solubility in water]

650 mg/L

[Melting Point]

-1

[Boiling Point]

244

[Vapor Pressure]

0.05 (25 C)

[Density]

2.9656 g/cm3 (20 C)

[Partition Coefficient]

3.67

[Heat Of Vaporization]

46.1 kJ/mol

[Usage]

Separating minerals by specific gravity, solvent for fats, oils, and waxes, solvent in mic roscopy.

[Saturation Concentration]

26 ppm at 20 C (calculated)

[Vapor Density]

11.9

[Refractive Index]

1.63263 (20 C)

First Aid Measures

[Ingestion]

Induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Nev er give anything by mouth to an unconscious person. Get medical aid.

[Inhalation]

Get medical aid immediately. Remove from exposure to fresh air immediately. If not br eathing, give artificial respiration. If breathing is difficult, give oxygen.

(Skin)

Get medical aid immediately. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.

[Eyes]

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Handling and Storage

[Storage]

Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from

incompatible substances. Keep away from metals.

[Handling]

Wash thoroughly after handling. Use with adequate ventilation. Avoid contact with eye s, skin, and clothing. Avoid ingestion and inhalation.

Hazards Identification

[Ingestion]

Causes gastrointestinal irritation with nausea, vomiting and diarrhea. May cause liver a nd kidney damage.

[Inhalation]

Causes respiratory tract irritation. May cause liver and kidney damage. May cause lun g damage. May cause headache, loss of appetite, nausea, fatigue, abdominal pain, da rkened urine and jaundice..

[Skin]

May be absorbed through damaged or abraded skin in harmful amounts. Exposure may cause irritation and possible burns. Causes symptoms similar to those of inhalation.

[Eyes]

Contact with eyes may cause severe irritation, and possible eye burns.

[Hazards]

Containers may explode when heated.

[EC Risk Phrase]

R 26 36 52/53

[EC Safety Phrase]

S 24 27 45 61

[UN (DOT)]

2504

Exposure Controls/Personal Protection

[Personal Protection]

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Stan dard EN166. Skin: Wear appropriate gloves to prevent skin exposure. Clothing: Wear appropriate protective clothing to minimize contact with skin.

[Respirators]

Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

[Exposure limit(s)]

OSHA PEL: TWA 1 ppm (14 mg/m3) NIOSH REL: See Appendix D NIOSH IDLH: 8 ppm

[Poison Class]

2

Fire Fighting Measures

[Flash Point]

97

[Autoignition]

335

[Fire Fighting]

Wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approve d or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Runoff from fire control o r dilution water may cause pollution. Extinguishing media: Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.

[Upper exp. limit]

24.5

[Fire Potential]

May burn but does not ignite readily.

Accidental Release Measures

[Small spills/leaks]

Absorb spill with inert material, (e.g., dry sand or earth), then place into a chemical w aste container. Avoid runoff into storm sewers and ditches which lead to waterways. C lean up spills immediately, using the appropriate protective equipment. Provide ventilati on.

Stability and Reactivity

[Stability]

Stable under normal shipping and handling conditions.

[Incompatibilities]

Strong oxidizers, strong bases, and metals such as aluminum, magnesium, and zinc in the presence of steam. Will attack some forms of plastics, rubber, and coatings.

[Decomposition]

Irritating and toxic fumes and gases, hydrogen bromide, bromine fumes, carbonyl brom ide.

[Combustion Products]

When heated, it emits highly toxic fumes of carbonyl bromide.

Transport Information

[UN Number]

2504

[Hazard Class]

6.1

[Packing Group]

Ш

[HS Code]

2903 30 36