

## Evaluation Report for Category B, Subcategory 1.1 Application

**Application Number:** 2022-6494  
**Application:** Changes to Technical Grade Active Ingredient (Product Chemistry) - New source (site), same registrant  
**Product:** TOLCIDE PS75  
**Registration Number:** 28878  
**Active ingredient (a.i.):** Tetrakis(hydroxymethyl)phosphonium sulfate  
**PMRA Document Number:** 3557629

### Purpose of Application

The purpose of this application was to amend the registration of TOLCIDE PS75 to add a new manufacturing site.

### Chemistry Assessment

Common Name: tetrakis(hydroxymethyl)phosphonium sulfate  
IUPAC\* Chemical Name: bis[tetrakis(hydroxymethyl)phosphonium] sulfate  
CAS† Chemical Name: phosphonium, tetrakis(hydroxymethyl)-, sulfate (2:1)

\* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

TOLCIDE PS75 has the following properties:

Property	Result
Colour and physical state	Colourless liquid
Nominal concentration	75.0%
Odour	Aldehyde-like odour
Density	1.37 – 1.41 g/cm <sup>3</sup> at 25°C
Vapour pressure	3559.7 Pa (26.7 mm Hg) at 25°C
pH	3.2
Solubility in water	Miscible with water
n-Octanol/water partition coefficient	log K <sub>ow</sub> <0

The required chemistry data for TOLCIDE PS75 have been provided, reviewed, and found to be acceptable.

### **Health, Environmental and Value Assessments**

Health, environmental and value assessments were not required for this application.

### **Conclusion**

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information acceptable to add a new manufacturing site for TOLCIDE PS75.

## References

<b>PMRA Document Number</b>	<b>Reference</b>
3417975	2022, Tetrakis(hydroxymethyl)phosphonium sulfate (THPS) Detailed Production Process Description and Discussion of Impurities, DACO: 2.11,2.11.1,2.11.2, 2.11.3,2.11.4,2.12,2.12.1 CBI
3417976	2022, Tolcide PS75: 5-Batch Analysis, DACO: 2.13,2.13.1,2.13.2,2.13.3 CBI
3450665	2023, QC Analysis of [CBI Removed] in Production Batches of Tolcide PS75 by 31P NMR spectroscopy, DACO: 2.13.4 CBI

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