

## Evaluation Report for Category B, Subcategory 1.2 Application

**Application Number:** 2015-2585  
**Application:** New Technical Grade Active Ingredient Product Chemistry-New source (site) for a new registrant  
**Product:** Sharda Metaldehyde Technical  
**Registration Number:** 32392  
**Active ingredients (a.i.):** Metaldehyde  
**PMRA Document Number :** 2617368

### Purpose of Application

The purpose of this application was to register a new source of metaldehyde, Sharda Metaldehyde Technical (guarantee 99.36% metaldehyde), by a new registrant.

### Chemistry Assessment

Common Name: Metaldehyde  
 IUPAC\* Chemical Name: 2,4,6,8-tetramethyl-1,3,5,7-tetroxocane  
 CAS† Chemical Name: 2,4,6,8-tetramethyl-1,3,5,7-tetroxocane

\* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Sharda Metaldehyde Technical has the following properties:

Property	Result
Colour and physical state	White powder
Nominal concentration	99.36%
Odour	No obvious odour
Density	0.598 - 0.610 g/mL
Vapour pressure	4.6372 x 10 <sup>3</sup> mPa to 5.1523 x 10 <sup>3</sup> mPa
pH	6.98
Solubility in water	269.59 mg/L (pH 4) 286.19 mg/L (pH 7) 313.22 mg/L (pH 9)

Property	Result
n-Octanol/water partition coefficient	logK <sub>ow</sub> = -0.1237 (pH 4) logK <sub>ow</sub> = -0.2417 (pH 7) logK <sub>ow</sub> = -0.2419 (pH 9)

The required chemistry data for Sharda Metaldehyde Technical have been provided, reviewed, and found to be acceptable.

### Health Assessments

The health risk profile of Sharda Metaldehyde Technical is expected to be similar to a registered source of metaldehyde technical. Therefore, no new toxicology data were required.

Occupational and dietary exposure assessments were not required for this application.

### Environmental and Value Assessments

Environmental and value assessments were not required for this application.

### Conclusion

The PMRA has completed a review of all available information in support of Sharda Metaldehyde Technical and found it sufficient to support full registration.

### References

PMRA Document Number	Reference
2543567	2010, MSDS for [CBI removed], DACO: 2.11.2 CBI
2543571	2011, [CBI removed]: Determination of Physical Chemical Properties, DACO: 2.13.4 CBI
2543572	2011, Analytical Profile of Five Batches of Metaldehyde Technical, DACO: 2.12.1, 2.13.3, 2.13.4, 2.7, 2.8, 2.9 CBI
2543566	2011, MSDS for [CBI removed], DACO: 2.11.2 CBI
2543573	2011, Metaldehyde: Determination of Physical Chemical Properties, DACO: 2.14.1, 2.14.12, 2.14.2, 2.14.3, 2.14.4, 2.14.8, 2.16
2543568	2011, Method Validation Metaldehyde Technical, DACO: 2.13.1, 2.13.2
2543576	2012, Determination of Physico-Chemical Studies including Storage Stability and Shelf Life Specification Data for Metaldehyde Technical Material Stored at 35C for 12 weeks, in compliance with Good Laboratory Practice., DACO: 2.14.1, 2.14.11, 2.14.14, 2.14.15, 2.14.2, 2.14.3, 2.14.6, 2.14.7, 2.14.9, 2.16, 2.4, 2.5, 2.6, 2.7, 830.7000

2543577	2012, Determination of Physico-Chemical Studies including Storage Stability and Shelf Life Specification Data for Metaldehyde Technical Material Stored at 35C for 12 weeks, in compliance with Good Laboratory Practice., DACO: 2.14.1, 2.14.11, 2.14.14, 2.14.15, 2.14.2, 2.14.3, 2.14.6, 2.14.7, 2.14.9, 2.16, 2.4, 2.5, 2.6, 2.7, 830.7000
2543578	2012, Determination of Physico-Chemical Studies including Storage Stability and Shelf Life Specification Data for Metaldehyde Technical Material Stored at 35C for 12 weeks, in compliance with Good Laboratory Practice., DACO: 2.14.1, 2.14.11, 2.14.14, 2.14.15, 2.14.2, 2.14.3, 2.14.6, 2.14.7, 2.14.9, 2.16, 2.4, 2.5, 2.6, 2.7, 830.7000
2543579	2012, Determination of Physico-Chemical Studies including Storage Stability and Shelf Life Specification Data for Metaldehyde Technical Material Stored at 35C for 12 weeks, in compliance with Good Laboratory Practice., DACO: 2.14.1, 2.14.11, 2.14.14, 2.14.15, 2.14.2, 2.14.3, 2.14.6, 2.14.7, 2.14.9, 2.16, 2.4, 2.5, 2.6, 2.7, 830.7000
2543580	2012, Determination of Physico-Chemical Studies including Storage Stability and Shelf Life Specification Data for Metaldehyde Technical Material Stored at 35C for 12 weeks, in compliance with Good Laboratory Practice., DACO: 2.14.1, 2.14.11, 2.14.14, 2.14.15, 2.14.2, 2.14.3, 2.14.6, 2.14.7, 2.14.9, 2.16, 2.4, 2.5, 2.6, 2.7, 830.7000
2543581	2012, Determination of Physico-Chemical Studies including Storage Stability and Shelf Life Specification Data for Metaldehyde Technical Material Stored at 35C for 12 weeks, in compliance with Good Laboratory Practice., DACO: 2.14.1, 2.14.11, 2.14.14, 2.14.15, 2.14.2, 2.14.3, 2.14.6, 2.14.7, 2.14.9, 2.16, 2.4, 2.5, 2.6, 2.7, 830.7000
2543582	2012, Determination of Physico-Chemical Studies including Storage Stability and Shelf Life Specification Data for Metaldehyde Technical Material Stored at 35C for 12 weeks, in compliance with Good Laboratory Practice., DACO: 2.14.1, 2.14.11, 2.14.14, 2.14.15, 2.14.2, 2.14.3, 2.14.6, 2.14.7, 2.14.9, 2.16, 2.4, 2.5, 2.6, 2.7, 830.7000
2543574	2013, Analysis of a Metaldehyde Technical Material, in compliance with Good Laboratory Practice, DACO: 2.14.13, 2.16 CBI
2543575	2013, Phototransformation of Metaldehyde Technical in Water - Direct Photolysis [Preliminary Test], DACO: 2.16
2543570	2014, Analytical Profile of Five Batches of Metaldehyde Technical, DACO: 2.13.3, 2.13.4 CBI
2613837	2014, MSDS for [CBI removed], DACO: 2.11.2 CBI
2613836	2014, MSDS for [CBI removed], DACO: 2.11.2 CBI
2543563	2015, Applicant's Name and Office Address, Formulating Plant and address, Trade Name and Dissociation Constant for Sharda Metaldehyde Technical, DACO: 2.1, 2.14.10, 2.2, 2.3
2543564	2015, Applicant's Name and Office Address, Formulating Plant and address, Trade Name and Dissociation Constant for Sharda Metaldehyde Technical, DACO: 2.1, 2.14.10, 2.2, 2.3 CBI
2543569	2015, Manufacturing Dates of the Five Batches of Metaldehyde Technical in Report YV/11/010, DACO: 2.13.3 CBI
2543565	2015, Manufacturing Method for Sharda Metaldehyde Technical, DACO: 2.11.1, 2.11.2, 2.11.3, 2.11.4 CBI
2613835	2016, MSDS for [CBI removed], DACO: 2.11.2 CBI
2613839	2016, manufacturing process using catalysts for Metaldehyde TGAI, DACO: 2.11.1, 2.11.2, 2.11.3 CBI

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