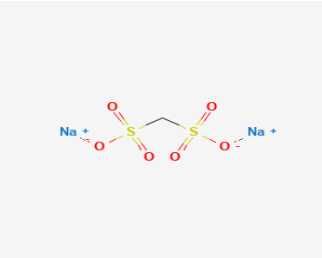
# Summary Technical Data Sheet

# MDSA - Na Salt

**Product Name:** MDSA - Na Salt
**Synonyms:** Methane Disulphonic Acid, Disodium Salt
**CAS Number:** 5799-70-2
**Formula:** $CH_2Na_2O_6S_2$
**Molecular weight:** 220.13 g/mol



## Typical Properties

- Appearance: white powder
- Odor: odorless
- Solubility: 10% easily soluble in water

## Product Specifications

| Properties | Specifications |
|---|---|
| Assay | ≥ 99 % |
| Chloride | < 5 ppm |
| Sulphate | < 50 ppm |
| Moisture | < 0.5% |

### MDSA - Na Salt

Methane Disulfonic Acid, Disodium Salt is used as a catalyst in Hard Chrome Plating, which offers longer solution life for lower running costs with higher productivity. In the literature, this is often referred to as high-speed, non-etch, proprietary bath. In the conventional single - catalyst bath with sulphuric acid for the sulphate ions the efficiency is very low; around 10 to 12% efficiency, however the fluoride mixed-catalyst bath that contains sulphate ions and fluoride ions the efficiency improves to 20% plus. The third type of bath uses the MDSA - Na salt or MDSA - K salt, which is the proprietary bath and it yields the highest efficiency around 25% plus.

The performance of the proprietary catalyst bath using MDSA-Na/K Salt has many advantages of the fluoride - mixed catalyst bath without the fluoride ions such as; good coverage, good activation, and better throwing power than the single - catalyst bath. It has the highest efficiency of the three baths at 25% plus, and can plate at a high rate. It demonstrates excellent hardness, wear-ability, and corrosion resistance. The microcrack structure count per surface area is highest for this bath under certain conditions, which is responsible for improved corrosion resistance and spread out deposit stresses more evenly over the deposit. The more microcracks the better oil and lubricant absorption in the bearings and piston shafts for hardness and wear-ability.

**Storage and Handling**: Store in cool, well ventilated area. Keep container tightly closed. Avoid contact with water or humidity.

**Packaging:** 22 lb./10 kg, 55 lb/25 kg, and 110 lb./50 kg

**Transport Regulations:** Not regulated.

*The above information, while not guaranteed, reflects our analysis and believed to be accurate. It is the end user's responsibility, prior to use of the above mentioned product to determine the suitability of the product. Aqua Bond shall not be, directly or indirectly responsible for damages of any nature whatsoever resulting from the use or reliance upon the above information.*

**PO Box 63635, Toronto, Ontario M1V 5K2** **Phone: 416-754-7211**

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