

**Typical chemical and physical properties** Water-based anti-wear additive for formulating aqueous metalworking fluids. Water-soluble and readily biodegradable product.

**Blend of surfactants, coupling agents and organic amides.**

|                   |                    |
|-------------------|--------------------|
| Appearance        | Liquid             |
| Solubility        |                    |
| Water             | Miscible           |
| Odour             | Barely perceptible |
| Density at 25°C   | 1,13 - 1,18 g/ml   |
| pH at 23°C        | 5 - 8              |
| Viscosity at 25°C | ≤50 mPa·s          |

*This information is intended as a guideline only. For specifications please consult the Certificate of Analysis.*

**Application and treat level**

|                          |                                                                                                                                                                                                                                           |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Markets                  | Industrial machinery<br>Automotive industry                                                                                                                                                                                               |
| Applications             | Metal working fluids (emulsions, water based systems, water based PAG systems)<br>Cutting and grinding fluids (water based)<br>Hydraulic fluids (HF-C, HF-A, water based systems including PAG)<br>De-icing fluids<br>Automotive coolants |
| Recommended dosage/usage | 1 - 5% based on application and formulation<br><b>Suitable as Food contact material</b>                                                                                                                                                   |

**Key benefits**

- Readily biodegradable -- Biobased -- APEO/NPEO free -- PFAS Free -- Free of MOSH/MOAH -- Free of silicone oils -
- Easy to handle liquid.
- Does not contain phosphorus, sulphur or halogens.
- Offers excellent solubility in water.
- It does not affect paints and coatings (no blistering or stripping of the coating is observed).
- The additive can be added to media, which exhibit pH range between 4 to 13.
- Non-foaming.

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| <b>Safety and Handling</b>   | Please read Safety Data Sheet (SDS) before handling.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Product Specification</b> | This information is available on request through our local representative.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Packaging</b>             | This information is available on request through our local representative.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Storage</b>               | The product should be stored at a temperature of no less than 10 °C and no more than 25 °C and away from light. For more safety details read the Safety Data Sheet (SDS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Quality Policy</b>        | <p>The objective of our quality policy is the continuous fulfillment of the internal and external requirements agreed upon with our partners with regards to everybody's performance.</p> <p><input type="checkbox"/> The Quality System of ADDAPT® Chemicals BV is based on the principles of the NEN - EN - ISO - Standard 9001:2015.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Liabilities</b>           | <p><i>All recommendations for the use of our products, whether given by us in writing, orally, or to be implied from the results of tests carried out by us, are based on the current state of our knowledge. Notwithstanding any such recommendations, buyer or user remains responsible for satisfying himself that the products as supplied by us are suitable for his intended process or purpose. Since we cannot control the application, use or processing of the products, we cannot accept responsibility thereof. Buyer has to ensure that the intended use of the products will not infringe any third party's intellectual property rights. We warrant that our products are free from defects in accordance with, and subject to, our general conditions of sale and supply.</i></p> |

ADDAPT Chemicals BV  
Speltdijk 1  
5704 RJ Helmond  
The Netherlands  
Tel: + 31 (0)492 597575  
E-mail: [info@addapt-chem.com](mailto:info@addapt-chem.com)  
Home page: <http://www.addapt-chem.com>

