



COOLING

# THERMASOLV™ DC2

DIELECTRIC HEAT TRANSFER FLUID  
BOILING POINT: 26°C/79°F  
LIQUID AT AMBIENT TEMPERATURE

## BENEFITS

THERMASOLV DC2 is dielectric heat transfer fluid, dedicated for direct to chip cooling applications. The favorable characteristics of the product's viscosity, density and surface tension allows optimal surface contact, which contributes to a superior heat transfer performance.

THERMASOLV DC2 is specially formulated with an optimal boiling point of 26 °C (79 °F), allowing it to remain liquid at ambient temperatures for easier handling and filling, while still delivering highly efficient two-phase cooling.

It is compatible with all metals and alloys, including very sensitive ones. It has also good compatibility with most plastics & elastomers, however we recommend to test before use.

This product is formulated with safety in mind, resulting in a product that has no mentioning of any EUH-phrases, is non-flammable and no flash point. It is also a great sustainable solution as it has no ODP, ultra-low GWP and can be offered for recycling when needed.

PERFORMANCE	<ul style="list-style-type: none"> <li>Thermally and chemically stable in use</li> <li>Very low surface tension</li> <li>Excellent thermal performance</li> </ul>
COST	<ul style="list-style-type: none"> <li>Can be returned for recycling and re-use</li> <li>Allow processors to run at lower temperatures, extending lifetime.</li> </ul>
HSE	<ul style="list-style-type: none"> <li>Ultra-low GWP &amp; no ODP</li> <li>Non-flammable &amp; no flashpoint</li> <li>Low environmental impact: GREENWAY product</li> </ul>

## SPECIFICATIONS

SPECIFICATIONS	VALUES	METHODS
Aspect	Colorless, clear	Visual
Purity (%)	>99,5	BRY-MO-121

## CHARACTERISTICS

CHARACTERISTICS	VALUES
Flash point	No
Boiling point	26°C/79°F
Pour Point	-103°C/-153°F
Critical Temperature	n.a
Critical Pressure (mPa)	n.a.
Surface tension (dynes/cm <sup>2</sup> )	13
Kinematic Viscosity (cSt)	0.4
Liquid density (Kg/m <sup>3</sup> @ 20°C)	1346
Vapor pressure (kPa @20°C)	>70
Dielectric Constant @1 kHz	under evaluation
Thermal conductivity (W/m-K)	0.086
Heat Vaporization	163J.g-1
Specific heat Capacity (@20°C)	1210 J kg-1 K-1

## PROCESS RECOMMENDATION

The best process will depend on factors such as operating conditions & equipment. Our team is ready to advise you.

Although this product has very good compatibility properties, we cannot foresee all materials that could be exposed to the fluid. We strongly recommend testing before use.

### PROCESSES

The product can be used in the following processes:

- Direct to Chip application
- 2-phase immersion
- Specific manufacturing processes which need stable and uniform cooling

### TEMPERATURE LIMITS

2-phase system: Boiling Point: 26°C/79°F

## PACKAGING, STORAGE & SHELF LIFE

- Store products in their original, sealed packaging in a dry place, preferably at temperatures below 30°C/86°F to prevent packaging distortion and leaks. Keep packaging away from direct sunlight.
- Shelf life is minimum 5 years from production date when kept in recommended conditions. The shelf life provides a guarantee of delivering new product and proper storage (no packaging leakages, no accidentally contamination). Once the product is used in a process it is designed for, there is no degradation of quality or performance over time.

### AVAILABLE PACKAGING



5KG GLASS BOTTLE

Please verify the packaging details, including volume and availability, with your sales representative, as they may vary depending on the production facility where the product is manufactured.

## HEALTH, SAFETY & ENVIRONMENT

THERMASOLV DC2 is a **GREENWAY** product. More info on our Greenway concept via this [link](#).



### MAIN CONTRIBUTORS WHICH REDUCE IMPACT:

#### HUMAN HEALTH & SAFETY

- Non-flammable, no flashpoint & no EUH risk phrases: 100% safe for storage and when used in equipment
- Non-toxic, no corrosive impact & no S risk phrases

#### ENVIRONMENT PROTECTION & RESOURCES SAVINGS

- No environmental hazard: no H labelling regarding environment
- Can be returned for recycling and re-use: ECOPROGRAM
- Ultra-low GWP

PROPERTIES	DC2
Ozone Depleting Potential (ODP)	No
Global Warming Potential (GWP*)	20
Volatile Organic Compound (VOC)	No
Flashpoint	No

\*GWP based on FGASIII regulation

Contains no Reach Substances (on Candidate list, Annex XIV & XVII) / Contains no persistent organic pollutant (EC 850/2004) / Contains no Import/Export Hazardous substances (EU 649/ 2012). In accordance with the Annex II of Directive 2011/65/UE (RoHS), including its amendments, we certify that this product does not contains quantities above 0.1% of Hg, Pb, Cr VI, PBB, PBDE, DEHP, BBP, DBP, DIBP and above 0.01% of Cd.

Used polluted product can be returned to us for recycling if regulations permit. Please contact your local sales contact for more details on our **ECOPROGRAM**.

Please refer always to the Safety Data Sheet (SDS or MSDS) prior to use. Our SDS can be downloaded at [www.quickfds.com](http://www.quickfds.com). We will request to provide your email address, so we can automatically send you a new version of the SDS when a future update would occur.

## TECHNICAL SUPPORT

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Inventec has a worldwide dedicated Technical Support team to help you along the different stages of our cooperation. Depending on your request, we provide online or onsite support to:

- select the right product based on your specific needs
- assist you in your product qualification process
- guide you through the initial setup of your process at all worldwide manufacturing facilities
- provide a fast response to technical issues that may occur at any time during mass production

Contact our technical support via [contact@inventec.dehon.com](mailto:contact@inventec.dehon.com) or your local sales representative.

## ABOUT INVENTEC

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Inventec Performance Chemicals is a global B2B provider of Electronic Assembly Materials, Precision Cleaning Fluids, Protective Coatings and Thermal Management Fluids. For over 60 years we have shown leadership in innovation by putting HEALTH IMPACT, SUSTAINABILITY and RELIABILITY at the core of our product development.

With ISO 9001 & 14001 production sites in France, Switzerland, USA, Mexico, Malaysia and China we can guarantee a smooth and cost-effective supply chain across the globe. Trusted across many industries, our solutions excel in automotive, aerospace, semiconductor, energy, and medical applications where reliability matters most.

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COATING  
COOLING

This data is based on information that the manufacturer believes to be reliable and offered in good faith. In no event will INVENTEC PERFORMANCE CHEMICALS be responsible for special, incidental and consequential damages. The user is responsible to the Administrative Authorities (regulations for the protection of the Environment) for the conformity of his installation.

Inventec Performance Chemicals – 26 rue de Coulons. 94360 Bry-sur-Marne, France  
Limited company with capital of 600 000€ - 964 500 706 RCS Créteil