

# **REACH Physico-Chemical Data Report**

*Property Measured/Assessed: 7.2 Melting/Freezing Point*

|                                          |                                                                                           |
|------------------------------------------|-------------------------------------------------------------------------------------------|
| Substance (registration name)            | <b>Olefines, polymer, oxidized, hydrolyzed, distn. residues, from C20 alcohols manuf.</b> |
| Test Material                            | <b>NAFOL 22+</b>                                                                          |
| Batch / Lot no.                          | <b>03820/MA</b>                                                                           |
| Data Owner:                              | <b>Sasol Germany GmbH</b>                                                                 |
| Company Study no.                        | <b>#7854</b>                                                                              |
| Test Institute                           | <b>Sasol Germany GmbH Laboratory Brunsbüttel</b>                                          |
| Report no.                               | <b>REACH22+0003, melting/freezing point</b>                                               |
| Date of Analysis                         | <b>2011-02-24</b>                                                                         |
| Guideline                                | <b>OECD Guideline 102</b>                                                                 |
| Test Method<br>If other (please specify) | <b>method to determine freezing temperature</b>                                           |

## **RESULTS**

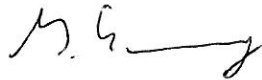
|                                            |                                               |
|--------------------------------------------|-----------------------------------------------|
| Melting/freezing point<br>at Atm. Pressure | <b>62,4 unit ° C</b><br><b>1023 unit mBar</b> |
| Decomposition<br>at Decomp. temp.          | <b>no</b><br><b>unit</b>                      |
| Sublimation<br>at Sublim. temp.            | <b>no</b><br><b>unit</b>                      |
| Remarks on results                         |                                               |

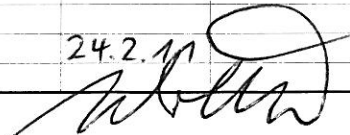
## COMMENTS/ADDITIONAL INFORMATION:

Analyst Name (print): M. Sprung

Date Signed: 2011-06-30

Analyst Name (sign):

A handwritten signature in black ink, appearing to read 'M. Sprung', written over a horizontal line.

|                                        |                                                                                  |                                                                                     |           |           |
|----------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------|-----------|
| <b>Sample</b>                          |                                                                                  |                                                                                     |           |           |
| Name                                   | NAFOL 22+                                                                        |                                                                                     |           |           |
| EINECS                                 | Olefines,polymer,oxidized,hydrolyzed,<br>distn.residues,from C20 alcohols manuf. |                                                                                     |           |           |
| EINECS no.                             | 936-122-4                                                                        |                                                                                     |           |           |
| CAS.-no                                |                                                                                  |                                                                                     |           |           |
| Lot No.                                | 03820/MA                                                                         |                                                                                     |           |           |
| LIMS code                              | REACH22+0003,0001                                                                |                                                                                     |           |           |
| Reference Number LIMS                  | 20110195527                                                                      |                                                                                     |           |           |
| <b>Method</b>                          |                                                                                  | OECD Guideline 102 Melting Point                                                    |           |           |
| <b>Equipment</b>                       |                                                                                  |                                                                                     |           |           |
| Type of melting point apparatus        | Mettler FP90 with FP81HT based on a light transmission method                    |                                                                                     |           |           |
| Serial Number                          | 5115107752                                                                       |                                                                                     |           |           |
| Melting point tubes                    | Mettler ME-18552                                                                 |                                                                                     |           |           |
| used thermometer                       | Pt100                                                                            |                                                                                     |           |           |
| <b>Measurement parameters</b>          |                                                                                  |                                                                                     |           |           |
| Transmission value                     | 20%                                                                              |                                                                                     |           |           |
| heating rate                           | 1°C/min                                                                          |                                                                                     |           |           |
| <b>Date/Operator</b>                   |                                                                                  |                                                                                     |           |           |
| Date of measurement                    | 24.02.2011                                                                       |                                                                                     |           |           |
| Operator                               | J.Wolter                                                                         |                                                                                     |           |           |
| <b>Calibration</b>                     |                                                                                  |                                                                                     |           |           |
| Date of calibration                    | 24.02.2011                                                                       |                                                                                     |           |           |
| Operator                               | J.Wolter                                                                         |                                                                                     |           |           |
| calibration material                   | Benzophenone                                                                     |                                                                                     |           |           |
| Lot no. of calibration material        | 1322818 42507215                                                                 |                                                                                     |           |           |
| melting point (theory)                 | °C                                                                               | 47,6 (+0,2)                                                                         |           |           |
| Melting point (experimental)           | °C                                                                               | 47,6                                                                                |           |           |
| <b>Measurement</b>                     |                                                                                  |                                                                                     |           |           |
| initial temperature                    | °C                                                                               | 45                                                                                  | 45        | 45        |
| final temperature                      | °C                                                                               | 70                                                                                  | 70        | 70        |
| Melting point                          | °C                                                                               | 62,1                                                                                | 62,6      | 62,5      |
| Melting range                          | °C                                                                               | 58,3-62,3                                                                           | 58,2-61,7 | 58,2-62,3 |
| atmospheric pressure ( weatherstation) | mbar                                                                             | 1023                                                                                | 1023      | 1023      |
| remarks of results                     |                                                                                  |                                                                                     |           |           |
| Date Signed                            |                                                                                  | 24.2.11                                                                             |           |           |
| Analyst Signed                         |                                                                                  |  |           |           |