



NEODOL™ 23-2

TECHNICAL DATASHEET

Primary Alcohol Ethoxylate

Updated: November 2020
SICC Product Code: V2597

Description:

- NEODOL 23-2 is a blend of C12 and C13 high purity, lightly branched, primary alcohols with an average of approximately 2 moles of ethylene oxide per mole of alcohol. NEODOL 23-2 alcohol ethoxylate biodegrades fast, as measured in the OECD 301 test.

| Typical Chemical Properties ^a | Property | Unit | Value | Method |
|--|-----------------------|----------|-------------------|------------|
| | Hydroxyl Number | mg KOH/g | 194 - 204 | SMS 1848 |
| | Molecular Mass | g/mol | 275 - 289 | SMS 1848 |
| | Color, Pt-Co | | < 30 | ASTM D1209 |
| | Water | %m/m | < 0.1 | ASTM E1064 |
| | Ash | %m/m | < 0.2 | ASTM D482 |
| | Polyethylene Glycol | %m/m | < 1 | SMS 1528 |
| | Appearance | | LCSH ^b | Visual |
| | Acid Number | mg KOH/g | 0.05 - 0.20 | SMS 2912 |
| | EO/Alcohol Mole Ratio | | 1.8 - 2.2 | SMS 1848 |
| | Residual EO | mg/kg | < 6 | SMS 2957 |
| | 1,4 - Dioxane | mg/kg | < 1 ^c | SCG 893 |

a: An official sales specification is available from your local Shell Chemicals representative.

b: Liquid, Clear to Slightly Hazy

c: Method Detection Limit 0.3 mg/kg

d: Typical Value by water titration

| Typical Physical Properties | Property | Unit | Value | Method |
|-----------------------------|----------------------------|---------------------|-----------------|-------------------------|
| | Density @ 40°C | kg/l | 0.891 | ASTM D4052 |
| | Cloud Point | ml H ₂ O | 23 ^d | SMS 1664 |
| | Flashpoint | °C | 152 | ASTM D56/D92/D93 |
| | Pour Point | °C | 0 | ASTM D5949/D97 |
| | HLB | Number | 6.5 | Griffin's Method (1954) |
| | Kinematic Viscosity @ 40°C | mm ² /s | 14 | ASTM D445 |

Storage and Handling

Advice on the storage and handling of NEODOL alcohol ethoxylates can be found in the Safety Data Sheet on our website at www.shell.com/business-customers/chemicals/safe-product-handling-and-transportation/safety-data-sheets or by contacting your local Shell Chemicals Representative.

Hazard Identification

NEODOL alcohol ethoxylates exhibit low oral, skin and respiratory toxicity. Generally, these alcohols are slightly to moderately irritating to the eyes and skin. Prolonged or repeated skin contact with undiluted alcohols may lead to defatting of the skin and ultimately cause dermatitis.

Emergency Helpline

For emergency telephone numbers refer to the Safety Data Sheet relevant for your company's country and language.

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