



We know what we talk about

Surface Activae SA

[www.surfaceactivae.com](http://www.surfaceactivae.com)

## ACTIVAE DGR-648

### CLEANER AND DEGREASER

#### Product Description

- An optimized surfactant system developed for RTU and Dilutable hard surface cleaners and degreasers
- Highly effective at removing fats, oils, greases and pigments on hard surfaces in acidic, neutral and alkaline conditions
- Replaces and delivers a better cleaning effect than solvent cleaners, especially if fats and oils are mixed with dust and pigments
- Offers formulators the ability to remove co-solvents used in their systems such as D-Limonene and Glycol Ethers
- Designed to be the only surfactant mixed with electrolytes (chelating, alkaline and dispersing agents)

#### Product Applications

- HI&I Hard Surface Cleaning (Acidic, Neutral & Alkaline)
- Vehicle Cleaning
- Engine Cleaning
- Oil Field Cleaning
- Marine Cleaning
- Heavy Duty Industrial Cleaning

#### Solubility

- Water
- 2-propanol
- Ethanol
- Propylene glycol

#### Key Benefits

- Effective water-based cleaner/degreaser where no mechanical action is possible
- Exceptional total cleaning of fats, oils, greases and pigments on hard surfaces
- Provides self hydrotroping properties in moderately built systems resulting in much higher cloud points for finished formulations
- Can often replace solvents in cleaning, hence, lower cost and more environmentally friendly
- Easy to handle delivering consistent quality

#### Specifications

	Limits	Method
Cloud Point in Formulation	min. 40°C	Formulation test (provided upon request)
pH 1% in water	5-8	Measurement with pH meter

#### Typical Data

<b>Water Content:</b>	40%
<b>Appearance @ 20°C:</b>	Clear transparent liquid
<b>Clear Point:</b>	-7°C
<b>Color:</b>	<7 Gardner
<b>Density @ 20°C:</b>	1010 kg/m <sup>3</sup>
<b>Flash Point:</b>	>100°C
<b>Pour Point:</b>	-10°C
<b>Foam ht., Ross Miles, @50°C (in 0.05% solution):</b>	70 mm immediate, 20 mm after 5 min.



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Suggested Alkaline Formulation			
Water	81%	78%	81%
EDTA 40% min	-	7%	7%
TKPP	6%	3%	-
Na-Metasilicate 5H <sub>2</sub> O	4%	3%	3%
<b>Activae DGR-648</b>	<b>9%</b>	<b>9%</b>	<b>9%</b>
Cp°C (upper limit)	>60°C	>60°C	>60°C
pH 10% solution	11.7	11.6	11.6
Dilution*	Up to 1-50	Up to 1-50	Up to 1-50

Car Cleaning Formulations for Traffic Film Remover			
KOH	-	-	6.5%
NaOH	2%	3%	-
HEDP	4%	4%	5%
EDTA 40% min.	18%	10%	10%
TKPP	4%	4%	-
Na-Metasilicate 5H <sub>2</sub> O	-	-	4%
<b>Activae DGR-648</b>	<b>8%</b>	<b>9%</b>	<b>8%</b>
H <sub>2</sub> O	64%	70%	66.5%
pH 2% solution**	10.6	12.9	13.1
Cp°C (upper limit)	43°C	>60°C	>60°C

\*depending on the application of the cleaners

\*\* dilution factor: 2% - 3% in water

## IMPORTANT:

- Tolerant up to 20% maximum of Sodium Hydroxide (NaOH)
- Use as the only surfactant
- Check the cloud point upper limit
- Deviating from the suggested measurements, will impact the standard cloud point

## Formulation Guidelines

1. Add water
2. Dissolve electrolytes (salt)
3. Add **Activae DGR-648**
4. Mix until homogeneous and transparent
5. Check the cloud point upper limit (very important quality control check)

## Regulatory & Transportation Information

- All components are on TSCA list
- REACH compliant with EU Detergent Regulation (EC No 648/2004)
- No components on California Prop 65
- IATA and ADR class: not regulated/classified



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## Handling

It may be necessary to homogenize or ensure uniformity of **Activae DGR-648** before use especially if the material meets any of these criteria:

- The product is stored at a cool temperature (less than 6°C)
- The product sits for an extended period of time
- The drum/package is partially used