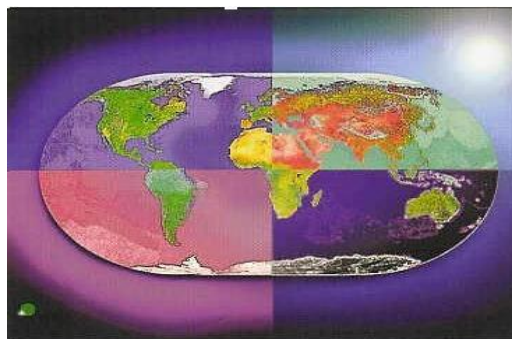


# KLEENKUT 2050

## TECHNICAL DATA SHEET

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### DESCRIPTION

Kleenkut 2050 is a vegetable oil and petrouleum oil (less than 42 wt.%) based shear spray lubricant, which is diluted with water and sprayed onto shear blades to provide cooling and lubrication. Kleenkut 2050 is different from other shear lubricant in that it does not contain animal oil. Kleenkut 2050 requires that some special precautions be taken to ensure optimal performance. The most important of these is to utilize water with a hardness of less than 35 ppm of calcium, if possible. **Detailed application info on reverse side.**

### ADVANTAGES

**BIODEGRADABLE**  
**CONTAINS NO ANIMAL OIL**  
**EXCELLENT COOLING AND LUBRICATION OF SHEAR BLADES**  
**MINIMIZE SHEAR MARKS**  
**ECONOMICAL (1000 TO 1 DILUTION RATIO)**  
**PROLONG SHEAR BLADE LIFE**  
**EXCELLENT CORROSION PROTECTION**  
**ELIMINATE BUILD-UP ON SHEAR BLADES**  
**AND MECHANISMS**

### TYPICAL PROPERTIES

|                                 |                       |
|---------------------------------|-----------------------|
| Appearance                      | Clear, yellow liquid  |
| Odor                            | Bland                 |
| Specific Gravity at 25°C / 77°F | 0.9 g/cc              |
| Flash Point - COC               | 300°C / 572°F Minimum |
| Free Fatty Acid                 | 0.03% maximum         |
| Viscosity at 40°C               | 27.1 cSt.             |
| Viscosity at 100°C              | 5.82 cSt.             |
| Viscosity Index                 | 165                   |
| Pour point:                     | -17°C / 1.4°F         |

### HANDLING & PRECAUTIONS

Refer to Material Safety Data Sheet for Kleenkut 2050

### SHELF LIFE

36 months in a sealed container at room temperature

# OPERATING YOUR SHEAR SPRAY SYSTEM

## DILUTION RATIO

**Recommend mixing 1250 parts of water with 1 part Kleenkut 2050 [ +/- 200 ].**

[We recommend a dilution ratio of between 800 to 1200 parts of water to 1 part of Kleenkut 2050. However, various glass plants use Kleenkut at either stronger or weaker concentrations than recommended.]

## WATER QUALITY

**Kleenkut 2050 requires treated water low in hard water salts for optimum performance.**

**Recommend maintaining hard water salts [calcium] below 35 ppm.**

**Recommend Deionization System rather than water softener.**

A water softener replaces hard water salts (calcium & magnesium) with the more water soluble sodium and potassium salts. However, this method is not recommended because the level of Total Dissolved Solids is not reduced. This can cause build-up (and therefore problems) over time; especially in re-circulating systems.]

## PH

**pH should be kept between 7.0 and 8.5.**

This is important to avoid problems of bacterial growth and also to avoid problems of corrosion. Many plants add chlorox (sodium hypochlorite) which is locally available in many countries. We also offer a very effective product called Aquasol 2 which is a pH promoter and bactericide specially designed for use with Kleenkut 2050.

## KLEENKUT 2050 EMULSION TEMPERATURE

**Recommend water temperature to be between 5°and 40°C [41°and 104°F].**

[Water hotter or colder than the temperature range recommended above may have a negative effect on operating performance.]

## CARE OF NEAT KLEENKUT 2050

**Maintain temperature of neat Kleenkut 2050 above -10°C [14°F].**

[Below -10°C (14°F) , Kleenkut 2050 will solidify. For this reason, the drums should be kept indoors in a warm place when received. Solidification does not render the product useless. Reliquified Kleenkut 2050 is as good as the original material. However, care should be taken to insure that all the material has reliquified. Sometimes this requires heating the material to between 25°and 35°C [77°and 95°F.]

## SPRAY SYSTEM

There are several state-of-the-art Shear Spray Systems available which were specifically designed for Kleenkut 2050. Two examples are the **Emhart** and the **Graphoidal** Shear Spray Systems.

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