

# Jack's Jazzy Juice

Vapor-Degreasing Solvent

## Technical Data Sheet

### Introducing JJJ!

Jack's Jazzy Juice is a blend of fluorinated solvents, trans-1,2-dichloroethylene, and cyclopentane intended for precision degreasing of heavy-duty lubricants and grease. Jack's Jazzy Juice is a drop-in replacement for Vertrel® MCA Plus and other vapor degreasing solvents used on heavy-duty grease and lubricants.

Jack's Jazzy Juice is formulated to leverage its chemical solvency with physical properties for optimal performance. The solvent can flow extremely close to the surface being cleaned to dissolve contaminants and physically lift insoluble particles to cleanse the surface.

### Material Friendly

Jack's Jazzy Juice is compatible with a range of materials including all metals, ceramics, and other non-conducting materials. Most elastomer materials are compatible except a few elastomer materials are non-compatible such as Viton and Kalrez that cause swelling. Before using Jack's Jazzy Juice, additional testing is recommended for all materials. Testing is recommended for all materials prior to use.

### Benefits of JJJ

Jack's Jazzy Juice is a vapor-degreasing solvent with excellent performance, is safe for workers to handle, and is environmentally friendly with properties including:

- No ozone depletion
- Drop-in replacement for Vertrel® MCA Plus
- Low global warming potential
- Low toxicity
- High allowable exposure limit
- Non-Flammable, Non-Hazardous
- Chemically stable

	Compatible	Additional Testing Required
<b>Metals</b>	Aluminum, Copper, Stainless Steel, Titanium, Brass, Tungsten	N/A
<b>Elastome</b>	Neoprene, Butyl Rubber, EPDM, Kynar (PVDF)	Viton A & B, Kalrez
<b>Plastics</b>	Nylon, Epoxy, Phenolic, HDPE, PTFE, PVC, Acrylic*, Polycarbonate*	N/A

\*Acrylics and Polycarbonates in stressed conditions are more susceptible to solvent attack at elevated temperatures

## Physical Properties

Property	JJJ	Asahi AK-225	DuPont Vertrel MCA	Honeywell Solstice®	nPB
Boiling Point °C [°F]	38-20 [100-104]	54 [129]	38 [100]	19 [66]	71 [160]
Density at 25°C (77°F) kg/liter [lb/gal]	1.31 [10.88]	1.55 [12.9]	1.33 [10.9]	1.27 [10.6]	1.35 [11.26]
Surface Tension at 25°C (77°F) dyne/cm	15.9	16.2	16.1	12.7	25.9
Viscosity at 25°C (77°F), cPs	0.49	0.59	0.49	0.53	0.49
Vapor Pressure at 25°C (77°F) kPa	64	38.5	61	152	20.3
Heat of Vaporization @bp cal/g	63.8	35	65.3	45.6	58.8
Global Warming Potential	565	370	650	1	N/A
Ozone Depleting Chemical	No	Yes	No	No	No
Volatile Organic Compounds (VOC) g/l	670	0	665	0	1,350
Allowable Exposure Limit (AEL) ppm	320	100	214	800	<10
Worker Exposure Ceiling (ppm)	No	No	400	No	10
KB Value	>65	31	50	25	125

## Worker Safety

Jack's Jazzy Juice has a low toxicity demonstrated by several acute toxicity studies. It has an Acceptable Exposure Limit (AEL) of 775 ppm based on its individual components. It is worker friendly due to the ingredients not having any chronic or acute toxicity. Refer to SDS for information related to exposure limits and toxicity data.

Jack's Jazzy Juice exhibits no close cup or open cup flash point. It is not classified as a flammable liquid according to definitions by the NFPA and DOT, however, since it is volatile, vapors may become flammable in air. Flash point and flammability limits are in the Flammability Table.

## Flammability

	Test Method	Olga's Original Ointment
Flash Point (CC)	ASTM D93	None
Flash Point (OC)	ASTM D1310	None
Flammability in Air	ASTM E681	
Lower Explosivity		6.0 vol%
Upper Explosivity		10.0 vol%

## **Storage Info**

Jack's Jazzy Juice is an extremely stable solvent thermally and chemically. Important properties for storage include:

- Non-reactive
- Low water solubility
- Air exposure will not cause oxidation
- UV exposure will not cause degradation

Per typical industrial storage practices, the solvent should be kept away from food sources and extreme temperatures. Freezing temperatures will cause drum compression and hot temperatures will cause drum ballooning. The product remains usable in any of these conditions.

## **Recycling!**

By adding commercially available modular recycling units, Jack's Jazzy Juice can be reclaimed and reused through a simple distillation process. With its phenomenal chemical stability, recycling can recover the solvent with a typical yield range of 80 to 95% resulting in sizable savings. Contact technical services for more information!

## **Jack's Jazzy Juice Specifications**

A typical Jack's Jazzy Juice solvent contains:

<b>Fluorinated Fluid Mixture</b>	>50 wt%
<b>Trans-dichloroethylene</b>	<50 wt%
<b>Cyclopentane</b>	<5%
<b>Water</b>	<100 ppm
<b>Non-volatile Residue</b>	<50 ppm (drums) <200 ppm (pails)
<b>Appearance</b>	Clear, odorless