



Cola[®] Solv IES & OES

COLA[®]SOLV IES: Isostearyl Ethylimidazolium Ethosulfate, **CAS # 67633-57-2**, EINECS # 266-775-4

Global Inventories: TSCA, DSL, EINECS, AICS

COLA[®]SOLV OES: Oleyl Ethylimidazolium Ethosulfate, **CAS # 68039-12-3**, EINECS # 268-232-7

Global Inventories: TSC, DSL, EINECS, AICS

DESCRIPTION

Ionic liquids are compounds that are liquids at low temperatures and functions as solvents, yet they have no VOC content and are environmentally safe. In addition these ionic liquids are categorized as salts that remain as liquids below 100°C

This class of compounds is fast gaining recognition as regulatory and environmental concerns close the door on traditional organic surfactants

Ionic Liquids represent a new technology with potential for use as solvent replacements. Their low vapor pressure makes them potential substitutes for highly volatile organic solvents, thus reducing the amount of pollution caused through solvent evaporation. Their non-flammable nature reduces the risk of fire hazard.

Cola[®]Solv IES and **Cola[®]Solv OES** are ionic liquids offering unique solvent capabilities and useful as replacements for some polar solvents. Both **Cola[®]Solv IES** and **Cola[®]Solv OES** are compatible with anionic surfactants and can aid in foam stabilization.

Cola[®]Solv IES and **Cola[®]Solv OES** are 100% active, liquid quaternary compound in addition to their solvent capability offer excellent antistatic, lubricating, fiber softening and corrosion inhibiting properties in aqueous and non-aqueous systems.

TYPICAL PROPERTIES

Chemical Composition	Quaternized Alkyl Imidazoline
pH (10% in water)	5.5 – 7.5
Activity	100%
Physical Form	Amber liquid
Specific Gravity	1.03 at 25oC
Solubilities @ 10% conc. in:	
• Water	Clearly Soluble
• Ethanol	Clearly Soluble
• Butyl Cellosolve (U.C.C.)	Clearly Soluble
• Aromatic Hydrocarbons	Clearly Soluble
• Chlorinated Hydrocarbons	Clearly Soluble

- Fluorinated Hydrocarbons Clearly Soluble
- Terpenes and diterpenes Clearly Soluble
- Mineral acids Clearly Soluble
- Dibasic Esters Limited
- Isoparaffins Insoluble
- Mineral Oils Insoluble

TEXTILE APPLICATION

The unusual lubricating, antistatic, fiber softening and corrosion inhibiting properties suggest the use of **Cola®Solv IES** and **Cola®Solv OES** in synthetic coolants and lubricants, plastics, textile softeners and fiber lubricants. Inclusion of either product as surface treatments can aid significantly in static charge reduction.

INDUSTRIAL APPLICATIONS

Cola®Solv IES and **Cola®Solv OES** can be used in cleaners to reduce the static charge on glass and metallic surfaces. Formulations with **Cola®Solv IES** and **Cola®Solv OES** allow water to be more freely rinsed from surfaces. The more uniform surfaces created by **Cola®Solv IES** and **Cola®Solv OES** rinse quicker and help prevent re-soiling or re-deposition.

FORMULATIONS

High Foaming Aluminum Brightener

<u>Compound</u>	<u>Weight</u>
Water	45.00
Cola®Solv IES or OES	30.00
Phosphoric Acid – 88%	10.00
Ammonium Bifluoride	5.00
Cola®Teric HFA	<u>10.00</u>
	100.00
Appearance:	Clear Liquid
pH as is:	1.5
Use level:	5% - 20% in water
Foam:	High

“Green” Acid Wash

<u>Compound</u>	<u>Weight</u>
Water	45.00
Cola®Solv IES or OES	25.00
Lactic acid – 88%	10.00
Citric acid – 100%	10.00
Cola®Teric 2COSF	<u>10.00</u>
	100.00
Appearance:	Clear Liquid
pH:	1.5
Use level:	5% - 20% in water
Foam:	Moderate

Metal Degreasing

<u>Compound</u>	<u>Weight</u>
Water	55.00
Cola®Solv IES or OES	25.00
Cola®Teric 2COSF	10.00
Cola®Cap MA 257	<u>10.00</u>
	100.00
Appearance:	Clear Liquid
pH as is:	7.5
Use level:	5% - 20% in

Masonry Cleaning

<u>Compound</u>	<u>Weight</u>
Water	45.00
Cola®Solv IES or OES	30.00
Cola®Teric MSC	10.00
Cola®Cap MA 257	5.00
Disodium EDTA	5.00
Sodium Citrate	<u>5.00</u>
	100.00

Foam:	water Moderate	Appearance: pH: Use level: Foam:	Clear Liquid 8.0 5% - 20% in water Low
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WARRANTY

Colonial Chemical guarantees that its products meet published specifications. No other warranties or guarantees are expressed or implied because the use of this material is beyond the control of Colonial Chemical.

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