

COLA[®]SOLV IES & COLA[®]SOLV TES IONIC LIQUIDS

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

Global Inventories: TSCA, DSL, EINECS, AICS

COLA[®]SOLV TES: Oleyl Ethylimidazolium Ethosulfate, CAS # 58039-12-3, EINECS # 268-232-7

Global Inventories: TSC, DSL, EINECS, AICS

Ionic liquids are compounds that are salts that are liquids at low temperatures and functions as solvents, yet has no VOC content and are environmentally safe.

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.

DESCRIPTION

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

Cola[®]Solv IES and Cola[®]Solv TES 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 25°C
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 Oil	Insoluble

TEXTILE APPLICATION

The unusual lubricating, antistatic, fiber softening and corrosion inhibiting properties suggest the use of Cola[®]Solv IES and Cola[®]Solv TES 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 TES can be used in cleaners to reduce the static charge on glass and metallic surfaces. Formulations with Cola[®]Solv IES and Cola[®]Solv TES allow water to be more freely rinsed from surfaces. The more uniform surfaces created by Cola[®]Solv IES and Cola[®]Solv TES rinse quicker and help prevent re-soiling or re-deposition.

BIODEGRADABILITY

Cola[®]Solv IES and Cola[®]Solv TES are fully biodegradable.

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