

CHEMICAL NAME IES: Isostearyl Ethylimidazolium Ethosulfate OES: Oleyl Ethylimidazolium Ethosulfate
CAS NUMBER IES: 67633-57-2 (EINECS # 266-775-4) OES: 68039-12-3 (EINECS # 268-232-7)
LISTINGS BOTH: TSCA (USA), DSL (Canada), EINECS (EU), AICS (Australia)

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.

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.

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 Oils	Insoluble

FORMULATIONS

High Foaming Aluminum Brightener

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

“Green” Acid Wash

Ingredients	%
Water	to 100.00
Cola®Solv IES or OES	25.00
Lactic acid – 88%	10.00
Citric acid – 100%	10.00
Cola®Teric 2COSF	10.00
Appearance: Clear Liquid pH as is: 1.5 Use level: 5% - 20% in water Foam: Moderate	

Metal Degreasing

Ingredients	%
Water	to 100.00
Cola®Solv IES or OES	25.00
Cola®Teric 2COSF	10.00
Cola®Cap MA 257	10.00
Appearance: Clear Liquid pH as is: 7.5 Use level: 5% - 20% in water Foam: Moderate	

Masonry Cleaning

Ingredients	%
Water	to 100.00
Cola®Solv IES or OES	30.00
Cola®Teric MSC	10.00
Cola®Cap MA 257	5.00
Disodium EDTA	5.00
Sodium Citrate	5.00
Appearance: Clear Liquid pH as is: 8.0 Use level: 5% - 20% in water Foam: Low	

STORAGE AND HANDLING

Cola®Solv IES and Cola®Solv OES should be stored in closed containers. Frozen material may be thawed in a warm room, venting drums while warming. Shelf life is 12 months from date of manufacture. A Safety Data Sheet is available upon request.

PACKAGING

Cola®Solv IES and Cola®Solv OES are shipped in 55 gal. open-head steel drums.

Colonial Chemical, Inc.

225 Colonial Drive · South Pittsburg, TN 37380 · Phone: 423-837-8800 · Fax: 423-837-3888 · www.colonialchem.com

Technical information contained herein is believed to be accurate. However, it is furnished without charge or obligation and is given and accepted at the recipient's sole risk. No guarantee of the accuracy of the information is made and the products discussed are sold without conditions or warranties expressed or implied. No warranties beyond the guarantee that Colonial Chemical products are manufactured to specs are expressed or implied, since the use of material is beyond our control. Purchasers should make their own tests and determine suitability of the product for their particular purposes. Nothing contained herein shall be considered a recommendation for any use that may infringe upon patent rights. Safety information regarding this product is contained in its Material Safety Data Sheet.