



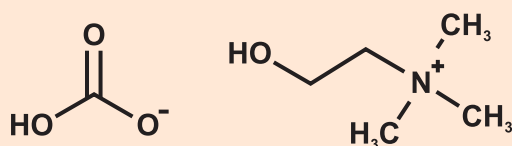
Sarex Overseas (A division of Sarex Organics Pvt. Ltd.)

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STELLAR-2041

1. STRUCTURE



2. PRODUCT NAME & DETAILS

Choline bicarbonate (Stellar-2041)

Product Code	: 010918
CAS No.	: 78-73-9
HS Code	: 2923.10.00
Molecular formula	: C ₆ H ₁₅ NO ₄
Molecular weight	: 165.19

3. REGULATORY INFORMATION

Chemical name	Common names and synonyms	CAS number	EC number
Choline bicarbonate	2-hydroxyethyl(trimethyl)azanium, 2-hydroxy-N,N,N-trimethylethanaminium hydrogencarbonate	78-73-9	201-137-0
European Inventory of Existing Commercial Chemical Substances (EINECS)			Listed
EC Inventory			Listed
United States Toxic Substances Control Act (TSCA) Inventory			Listed
China Catalog of Hazardous chemicals 2015			Not listed
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)			Listed
Korea Existing Chemicals List (KECL)			Not listed
Canadian Domestic Substance List (DSL)			Not listed
Canadian Non-Domestic Substance List (NDSL)			Listed
Japanese Existing and New Chemical Substances Inventory (ENCS)			Not listed

4. SPECIFICATION

Physical Appearance	: Clear Pale Yellow Liquid
Assay	: NLT 75%
Apha Colour	: 0-50
Heavy Metals	: NMT 20 ppm
Chlorides	: NMT 20 ppm

Disclaimer

Typical properties should not be considered as specification.
Product covered by valid patents are not offered or supplied for commercial use. The Patent position should be verified by the customer.
Products will not be supplied to countries where they could be in conflict with existing patents.
Products currently covered by valid US patents are offered for R&D use in accordance with 35 USC 271 (e) (I)
Above information is given in good faith and without warranty.



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4. SPECIFICATION

Ethylene Glycol	: 0-1%
Trimethylamine	: 0-0.01%

5. APPLICATION

- Used as cationic surface wetting agent.
- Used as the chemical additive in the CMP polishing slurry compositions.
- Used to formulate metal surface treatment products (including those for galvanizing and electroplating), non-metal surface treatment products, hydraulic fluids, processing aids (i.e. pH regulators, flocculants, and precipitants).
- Laboratory chemicals, plant protection products, pharmaceuticals, flux coating/core welding and soldering products, and as a clay stabilizer for fracturing in the mining industry.
- Choline, a water soluble essential nutrient, is used by the body to make phosphatidylcholine phosphatides and neurotransmitter such as acetylcholine.
- Choline is used to study a wide range of biological processes from stem cell development to neurological disease studies. Also, An alkaline intermediate useful for preparing salt.

6. HAZARD CLASSIFICATION

: Non-Hazardous Substance.



Irritant

7. ANNUAL CAPACITY

: 100 MT.

8. STORAGE CONDITION

: Store at 2-8°C in dry place.

9. PACKING DEATILS

: 180 Kg in HDPE narrow mouth drum.

10. SHELF LIFE

: 6 months.

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