

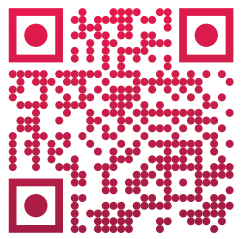


**INDO
AMINES
AMERICAS LLC**



OIL AND GAS

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Corrosion Inhibitors | Emulsifiers | Surfactants | Biocide

OIL AND GAS PORTFOLIO

FATTY AMINES

NAME	CAS.NO	BRAND NAME	APPEARANCE	TOTAL AMINE VALUE mg KOH/g	% PRIMARY AMINE	IODINE VALUE, gl2/100g	APPLICATION
Oleyl amine distilled	1213789-63-9	IAL OAD	Colorless to pale yellow liquid	200 – 215	99.0 Min	80.0 Min	Emulsifier
Stearyl amine distilled	90640-32-7	IAL SAD	Solid / Flakes	195 – 215	99.0 Min	3.0 Max	Emulsifier

FATTY DIAMINES

NAME	CAS.NO	BRAND NAME	APPEARANCE	TOTAL AMINE VALUE mg KOH/g	% PRIMARY AMINE	IODINE VALUE, gl2/100g	APPLICATION
Coco Diamine	61791-63-7	IAL CDA	Yellow to amber Pasty liquid	400 – 445	90.0 Min	12.0 Max	Secondary corrosion inhibitor & Biocide
Tallow Diamine	61791-55-7	IAL TDA	Yellow to amber Pasty Solid	325 – 355	90.0 Min	30.0 Min	Secondary corrosion inhibitor
Oleyl Diamine	7173-62-8	IAL ODA	Yellow to amber Liquid paste	320 – 340	90.0 Min	60.0 Min	Secondary corrosion inhibitor

FATTY AMINES ETHOXYLATES

NAME	CAS.NO	BRAND NAME	APPEARANCE	COLOR (GARDNER)	TOTAL AMINE VALUE mg KOH/g	pH (1 % Aq. SOLUTION)	APPLICATION
Tallow amine 10 EO	61791-26-2	INDOEMUL TA 10	Amber Color Clear Liquid	10 Max	72 - 80	8.0 – 11.0	Corrosion inhibitor

FATTY ALCOHOL ETHOXYLATES

NAME	CAS.NO	BRAND NAME	APPEARANCE	COLOR (APHA)	HYDROXYL VALUE, mgKOH/g	pH, 5 % in DISTILLED WATER	APPLICATION
Nonyl Phenol 4 EO	9016-45-9	IAL NP 4	Color less to Pale yellow viscous liquid	50 Max	132 – 150	6 – 8	Oil -based mud additive -Secondary emulsifier
Nonyl Phenol 10 EO	9016-45-9	IAL NP 10	Color less to Pale yellow viscous liquid	50 Max	80 – 88	6 – 8	Emulsifier for Water/ Oil - based mud additive - Wetting agent
Nonyl Phenol 12 EO	9016-45-9	IAL NP 12	Color less to Pale yellow viscous liquid	50 Max	70 – 80	6 – 8	Water-based mud additive - Emulsifier

OTHERS

NAME	CAS.NO	BRAND NAME	APPEARANCE	MOISTURE CONTENT, % (By KF)	""% PURITY(By GC)	APPLICATION
Dodecyl benzene sulphonic acid	27176-87-0	DDBSA	Dark brown viscous liquid	2.0 Max	-----	Paraffin inhibitor & Demulsifier
Morpholine	110-91-8	MORPHOLINE	Clear colorless liquid	0.5 Max	99.0 Min	Corrosion inhibitor
Cyclohexyl amine	108-91-8	CYCLOHEXYL AMINE	Colorless to pale yellowish liquid	0.5 Max	99.0 Min	pH control and Corrosion inhibitor
Methyl ethyl ketone	78-93-3	METHYL ISOBUTYL KETONE	Clear Colorless liquid	0.3 Max	99.0 Min	Solvent - Wax from petroleum
Diethylene glycol	111-46-6	IAL DEG	Clear colorless liquid	0.2 Max	-----	Solvent
N-Methyl diethanol amine	99105-59-9	INDO MDEA	Colorless to pale yellow liquid	0.5 Max	99.0 Min	Corrosion inhibitor - drilling equipment