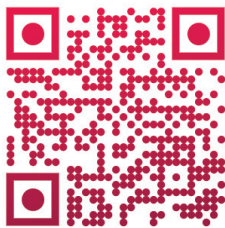


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METAL WORKING FLUIDS (MWF) & LUBRICANTS

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Metal Working Fluids (MWF) & Lubricants							
FATTY AMINES ETHOXYLATES							
NAME	CAS.NO	BRAND NAME	APPEARANCE	TOTAL AMINE VALUE mg KOH/g	% PRIMARY AMINE	IODINE ALUE, gl2/100g	APPLICATION
Coco amine	61788-46-3	IAL CAD	Colorless to pale yellow liquid	270 – 290	99 Min	12 Max	Hydraulic friction modifier & Additives for lubricating oil
Lauryl amine	124-22-1	IAL LAD	Color less to pale yellow liquid	295 – 304	99.0 min	3.0 Max	Polyurethane grease & Lubricating oil additive
Oleyl amine	1213789-63-9	IAL OAD	Colourless to pale yellow liquid	200 – 215	99.0 Min	80 Min	Friction modifier, Anti-corrosion & Neutralizer - Driveline & engine oil
Stearyl amine	124-30-1	IAL SAD	Solid / Flakes - white	200 – 215	99.0 Min	3.0 Max	Polyurethane grease & filming - Anti-corrosion lubricity & reduce friction
Tallow amine	68037-95-6	IAL TAD	White to pale yellowish pasty liquid	205 – 220	99.0 Min	40 – 55	Friction modifier, Lubricity and Anti-corrosion - Driveline & engine oil
FATTY DIAMINES							
NAME	CAS.NO	BRAND NAME	APPEARANCE	TOTAL AMINE VALUE mg KOH/g	DIAMINE CONTENT	IODINE ALUE, gl2/100g	APPLICATION
Coco Diamine	61791-63-7	IAL CDA	Yellow to amber Pasty liquid	400 – 445	90.0 Min	12.0 Max	Friction modifier, corrosion inhibitor & chain lube
Lauryl diamine	5538-95-4	IAL LDA	Yellow Pasty liquid	432 – 456	90.0 Min	-----	Lubricating oil additve
Oleyl diamine	7173-62-8	IAL ODA	Pale Liquid to yellow paste	320 – 340	90.0 Min	60.0 Min	Friction modifier, corrosion inhibitor & chain lube
Tallow diamine	61791-55-7	IAL TDA	Yellow to amber Pasty Solid	325 – 355	90.0 Min	30.0 Min	Friction modifier, corrosion inhibitor & chain lube
POLYETHERS							
NAME	CAS.NO	BRAND NAME	APPEARANCE	%, MOISTURE CONTENT (By KF)	HYDROXYL VALUE, mgKOH/g	pH (1 % Aq. SOLUTION)	APPLICATION
Polyethylene glycol 200	25322-68-3	IAL PEG-200	Color less to pale yellow viscous liquid	0.5 Max	535 – 590	4.5 – 7.5	Lubricants - manufacturing, solubilizer, dispersant & mold release agent
Polyethylene glycol 400	25322-68-3	IAL PEG - 400	Color less to pale yellow viscous liquid	0.5 Max	267 - 295	4.5 – 7.5	Lubricant - metal working
Polyethylene glycol 600	25322-68-3	IAL PEG - 600	Color less to pale yellow viscous liquid	0.5 Max	181 – 194	4.5 – 7.5	Grinding effect & Gloss retention - metal surface
Polyethylene glycol 4000	25322-68-3	IAL PEG-4000	White to creamy white wax like solid or flake	0.5 Max	20 – 35	4.5 – 7.5	Lubricant modifier
Proprietary Blend	-----	TCI 100	Clear yellow to brown viscous liquid	0.5 Max	-----	5.5 – 7.5	Mold releasing agent
DIALKYL AMINES							
NAME	CAS.NO	BRAND NAME	APPEARANCE	TOTAL AMINE VALUE mg KOH/g	TERTIARY AMINE %	%,MOISTURE CONTENT (By KF)	APPLICATION
Di coco amine	61789-76-2	IAL DICA	Colorless to yellowish solid	140 – 155	-----	1.0 Max.	Engine oil & Drive line - Intermediate
Di stearyl amine	112-99-2	IAL DSA	Yellowish pasty solid	98 -107	-----	1.0 Max	Diesel fuel -Intermediate
Lauryl di -methyl amine	112-18-5	IAL LDMA	Clear colorless to pale liquid	252 – 265	98.0 Min	0.5 Max	Friction modifier - Drive line

QUATERNARY AMMONIUM SALTS							
NAME	CAS.NO	BRAND NAME	APPEARANCE	FREE AMINE, %	pH (1 % Aq. SOLUTION)	ACTIVE CONTENT %	APPLICATION
Di(hydrogenated tallow) dimethyl ammonium chloride -75%	61789-80-8	IAL QUAT 2HT-75	Colorless to pale yellowish pasty solid	1.5 max	6.0 - 9.0	74 – 77	Diesel fuel - Anti stat
Cetyl Trimethyl Ammonium chloride -30%	112-02-7	IAL QUAT P-30	Colorless to Pale Yellow liquid	1 Max	6.0- 8.5	27 – 30	Metal Degreaser
Cetyl Trimethyl Ammonium chloride - 50%	112-02-7	IAL QUAT P-50	Colorless to Pale Yellow liquid	1 Max	6.0- 8.5	49 – 52	Metal Degreaser
Lauryl dimethyl Amine oxide 30%	1643-20-5	IAL LDMAO 30 %	Colorless to pale yellow liquid	1 Max	6 – 8	29 – 31	Metal deactivators or metal sequestrants
Dicoco Dimethyl Ammonium Chloride -75	61789-77-3	IAL QUAT 2C-75	Colorless to Pale Yellow pasty liquid	3.0 Max	6.0 – 9.0	74 – 77	Diesel fuel - Anti stat & Metal working corrosion inhibitors
ESTERS							
NAME	CAS.NO	BRAND NAME	APPEARANCE	COLOR (GARDNER)	SAONIFICATION VALUE, mg KOH /g	HYDROXYL VALUE , mgKOH/g	APPLICATION
Methyl Oleate	112-62-9	IAL MO	A clear. Pale yellow to yellowish liquid	-----	175 – 200	-----	Non-fluorescing slurry lubricant
Methyl Soyate	68919-53-9	METHYL SOYATE	A clear. Pale yellow to yellowish liquid	-----	175 – 200	-----	Lubricity additive - metal fabrication
Sorbitan Mono Laurate	1338-39-2	IAL SML	Amber viscous liquid	7 Max	158 – 170	330 – 358	Emulsifier & lubricity additive
Sorbitan Mono Oleate	1338-43-8	IAL SMO HO	Amber Viscous liquid	5.0 Max.	145 - 160	190 - 210	Emulsifier ,corrosion inhibitor & lubricity additive
ETHOXYLATES							
NAME	CAS.NO	BRAND NAME	APPEARANCE	COLOR (GARDNER)	SAONIFICATION VALUE, mg KOH /g	pH (1 % Aq. SOLUTION)	APPLICATION
Castor oil 5 EO	61791-12-6	IAL CO-5	Yellow viscous liquid	6 Max	128 – 138	6.0 – 8.0	Emulsifier & Co - Emulsifier
Castor oil 16 EO	61791-12-6	IAL CO-16	Yellow viscous liquid	6 Max	98 – 108	6.0 – 8.0	Emulsifier & Co - Emulsifier
Castor oil 30 EO	61791-12-6	IAL CO 30	Yellow viscous liquid	6 Max	70 - 80	6.0 – 8.0	Emulsifier & Co - Emulsifier
Hydrogenated Castor oil 5 EO	61788-85-0	IAL HCO 5	Pale yellow liquid	5.0 Max	140 – 150	6.0 – 8.0	Emulsifier
Hydrogenated Castor oil 16 EO	61788-85-0	IAL HCO 16	Pale yellow liquid	3 Max	90 – 110	6.0 – 8.0	Emulsifier
Nonyl Phenol Based							
NAME	CAS.NO	BRAND NAME	APPEARANCE	COLOR (APHA)	HYDROXYL VALUE, mgKOH/g	pH, 5 % in DISTILLED WATER	APPLICATION
Nonyl Phenol 3 EO	9016-45-9	IAL NP 3	Color less to pale yellow viscous liquid	50 Max	150 – 165	6.0 – 8.0	Emulsifier & dispersant
Nonyl Phenol 4 EO	9016-45-9	IAL NP 4	Color less to pale yellow viscous liquid	50 Max	132 – 150	6.0 – 8.0	Emulsifier & dispersant
Nonyl Phenol 5 EO	9016-45-9	IAL NP 5	Color less to pale yellow viscous liquid	50 Max	118 – 128	6.0 – 8.0	Degreaser , emulsifier & dispersant
Nonyl Phenol 6 EO	9016-45-9	IAL NP 6	Color less to pale yellow viscous liquid	50 Max	110 – 125	6.0 – 8.0	Wetting agent & emulsifier
Nonyl Phenol 7 EO	9016-45-9	IAL NP 7	Color less to pale yellow viscous liquid	50 Max	101 – 111	6.0 – 8.0	Wetting agent & emulsifier
Nonyl Phenol 8 EO	9016-45-9	IAL NP 8	Color less to pale yellow viscous liquid	50 Max	90 – 103	6.0 – 8.0	Degreaser , emulsifier & dispersant
Nonyl Phenol 10 EO	9016-45-9	IAL NP 10	Color less clear viscous liquid	50 Max	80 – 88	6.0 – 8.0	Degreaser & emulsifier
Nonyl Phenol 12 EO	9016-45-9	IAL NP 12	Color less to pale yellow viscous liquid	50 Max	70 – 80	6.0 – 8.0	Emulsifier
Nonyl Phenol 14 EO	9016-45-9	IAL NP 14	Liquid to paste	50 Max	60 – 75	6.0 – 8.0	Emulsifier
Coco Amine Based							
NAME	CAS.NO	BRAND NAME	APPEARANCE	COLOR (GARDNER)	TOTAL AMINE VALUE mg KOH/g	pH (1 % Aq. SOLUTION)	APPLICATION
Coco amine 2 EO	61791-14-8	INDOEMUL CA 2	Yellowish to brown viscous liquid	3 Max	187 – 199	8.0 - 11.0	Friction modifier - engine oil
Oleyl amine 2 EO	26635-93-8	INDO EMUL OA-2	Yellowish to brown viscous liquid	8 Max	145 – 155	8.0 - 11.0	Metal working (lubricity, cleaning),Friction modifier - engine oil & lubricity additive - Marine Fuel

Stearyl Amine 2 EO	90367-28-5	INDOEMUL SA 2	Yellow to Brown solid	6 Max	152 - 162	8.0 - 11.0	
Stearyl Amine 6 EO	61790-82-7	INDOEMUL SA 6	Yellow to Brown semi liquid / Paste	-----	100 – 110	8.0 – 11.0	Emulsifier & lubricity additive
Stearyl Amine 8 EO	61790-82-7	INDOEMUL SA 8	Yellow to brown viscous liquid	-----	85.0 – 95.0	8.0 – 11.0	Emulsifier & lubricity additive
Tallow amine 2 EO	61791-26-2	INDOEMUL TA 02	Yellow to brown paste	6 Max	150 – 160	8.0 – 11.0	Friction modifier - engine oil & drive line & lubricity additive - Marine Fuel & Metal working lubricity, iron control
Tallow amine 5 EO	61791-26-2	INDOEMUL TA 05	Yellowish to brown viscous liquid	12 Max	115 – 125	8.0 – 11.0	Rolling oil iron control, corrosion inhibitor, emulsifier
OTHERS							
NAME	CAS.NO	BRAND NAME	APPEARANCE	SAPONIFICATION VALUE, mgKOH/g	HYDROXYL VALUE, mgKOH/g	%, MOISTURE CONTENT (By KF)	APPLICATION
Lauric Acid	143-07-7	IAL LACD	White to Off white powder / flakes	279 - 283	-----	0.3 Max	Lubricant - Rolling oil
Oleic Acid 70%	112-80-1	IAL SPL 70	Colorless to yellow liquid	196 – 206	-----	0.20 Max	Mineral oil -Thickener
Polysorbate 60	9005-67-8	IAL PSB 60	Oily light yellow to amber color viscous, Opaque liquid	45 - 55	81 - 96	2.0 Max	Lubricant Additive
3-DIMETHYL AMINO PROPYL AMINE	109-55-7	3-DIMETHYL AMINO PROPYL AMINE	Clear colorless to pale yellowliquid	20 Max	0.4 Max	99.5 Min	Building block -Lube oil depressant & corrosion inhibitor
3-Butoxy propyl amine	16499-88-0	3-BUTOXY PROPYL AMINE	Colorless to pale yellowish liquid	20 Max	0.5 Max	99 Min	Multipurpose additive for synthetic and semi- synthetic formulations
N-aminopropylmorpholine	123-00-2	IAL APM	Clear liquid, substantially free of foreign matter	50 Max	0.5 Max	98 Min	Lubricating Agent
Phenoxyethanol 5 ppm	122-99-6	IAL 2PENOL 5	Colorless clear Viscous Liquid	20 Max	0.5 Max	99.5 Min	Stripping agent & Degreaser - Metal surface treatment
Phenoxyethanol 10 ppm	122-99-6	IAL 2PENOL 10	Colorless clear Viscous Liquid	20 Max	0.5 Max	99.5 Min	Stripping agent & Degreaser - Metal surface treatment
Phenoxyethanol 20 ppm	122-99-6	IAL 2PENOL 20	Colorless clear Viscous Liquid	20 Max	0.5 Max	99.5 Min	Stripping agent & Degreaser - Metal surface treatment
Phenoxyethanol 25 ppm	122-99-6	IAL 2PENOL 25	Colorless clear Viscous Liquid	20 Max	0.5 Max	99.5 Min	Stripping agent & Degreaser - Metal surface treatment
Phenoxyethanol 100ppm	122-99-6	IAL 2PENOL-C	Colorless clear Viscous Liquid	50 Max	0.5 Max	90 Min	Stripping agent & Degreaser - Metal surface treatment
3-Methoxy Propyl amine	5332-73-0	3-MPA	Clear colorless Liquid	10 Max	0.3 Max	99.5 Min	Corrosion inhibitor
Linear calcium alkyl benzene sulphonate	26264-06-2	INDO BA 6 IB	Light brown to golden yellow, sparkling clear viscous liquid	12 Max	5.0 – 7.0	60	Metal working (lubricity),hydraulic fluid
Linear calcium alkyl benzene sulphonate	26264-06-2	INDO BA 6 NB	Light brown to golden yellow clear viscous liquid	12 Max	5.0 – 7.0	59 – 61	Metal working (lubricity),hydraulic fluid
Linear calcium alkyl benzene sulphonate	26264-06-2	INDO BA 7 IB	Light brown to golden yellow, sparkling clear viscous liquid	12 Max	5.0 – 7.0	69 – 71	Metal working (lubricity),hydraulic fluid
Linear calcium alkyl benzene sulphonate	26264-06-2	INDO BA7 NB	Light brown to golden yellow, sparkling clear viscous liquid	12 Max	5.0 – 7.0	69 – 71	Metal working (lubricity),hydraulic fluid
Cocoamido propyl betaine -36%	61789-40-0	COCOAMIDO PROPYL BETAINE-36%	Colourless to light yellow liquid	2 Max	-----	29 – 31	Raw material - Bio based lubricant
Cocoamido propyl betaine - 44%	61789-40-0	COCOAMIDO PROPYL BETAINE-44%	Colourless to light yellow liquid	150.0 Max (APHA)	-----	36 – 38	Raw material - Bio based lubricant