1 □□□□□□□□□□

□□□□□

ContraFlux BC

□□

□□□□□□□□□□□□□□□□

□□□□: kolb Cleaning Technology GmbH
□□□: Karl-Arnold-Str. 12
□□: D-47877 Willich
□□□□: +49-2154-947938 □□□□□:+49-2154-947947
□□□□□: info@kolb-ct.com
□□□: Christian Linker □□□□:+49-2324-97980
□□□□□: christian.linker@kolb-ct.com
□□□□□□□: www.kolb-ct.com
□□□□: Labor/ QS

□□□□□□□□□□□□□□□□□□: +49/ (0) 23 24/ 979817 (EU)
+61 4 19 809 805 (Australia)
+1 970 443 9233 (USA)
Schweiz: 145

□□□□□

Australia:
kolb Cleaning Technology AP PTY LTD
6/150 Canterbury Road
NSW 2200 Bankstown
Phone: +61 2 97900273
Mobile +61 4 19 809 805

USA:
kolb USA LLC
410 Sunset, Unit C
80501 Longmont – CO
Phone 001- 970-532-5100
Mobile: 001- 970-443-9233

2 □□□□□□□□□

□□□□□□□□□□□□

EC □□ No. 1272/2008

□□□□□□□□□□□:
□□□□□/□□□: □□□□□ 1
□□□□□□□□□□□□/□□□□: □□□□□□□□□/□□□ 1
□□□□□□□□:
□□□□□□□□□□□□□□□□
□□□□□□□□□

□□□□□

EC □□ No. 1272/2008

□□□□□□□□□□□□□□□□□□□□□□□
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether
2-aminoethanol; ethanolamine

□□□□□□: □□

□□□□□□□□:

□□□□□□□□

H314 □□□□□□□□□□□□□□□□

□□□□□

P280	□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
P302+P352	□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
P332+P313	□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
P362+P364	□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
P337+P313	□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
P305+P351+P338	□□□□□□□□□□□□□□□□□□□□

□□□□□□□□□

□□□□□□□□□□□□□□□□□□□□

□□□□□□□□□□□□□□□□□□□

□□□□□□□□□□□□□□□□□□□

□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ □□□□□□□□□□□□□□□□□□□□
□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ □□□□□□□□□□□□□□□□□□□□□□□
□□□□□□□ □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ □□□□□□□□□□□□□□□□□□□□

□□□:	□□□□□□□□□
□□□□:	□□□□□□□□□
□H□ (□ 20 °C):	13,4
□□□: (□ 40 °C)	21 mm²/s
□□□:	□□□□□□
□□□□□□□□□□	
□□□□□□□□□	
n-□□□□□□/□□□□□:	□□□□□□□□□
□□□:	□□□□□□□□□
□□ (□ 20 °C):	1,016 g/cm³
□□□□□□:	□□□□□□□□□

□□□□□□□

□□□□□□□□□□□□□□□□□□□

□□□□

□□□□□□□□□□□□: □□□□□□□□□□□

□□□□

□□□□□□□□□□□□: □□□□□

□□□□□□□□□□

□□□□:	□□□□□□□□□
□□□□□:	□□□□□□□□□

10 □□□□□□□□□

□□□

□□□□□□□□□□□

□□□□□□□

□□□

□□□□□□□□□□□□□

□□□□ □: □□ □□□□□□ □□□□□ □□□□□□□□□□□□□□□□□□□□

CAS□□	□□□				
	□□□□□	□□□	□	□□□□□	□□
112-34-5	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether				
	□□□	LD50(50%□□□) 5660 mg/kg			
	□□□	LD50(50%□□□) 2746 mg/kg			
141-43-5	2-aminoethanol; ethanolamine				
	□□□	LD50(50%□□□) 1089 mg/kg	□□□		
	□□□	LD50(50%□□□) 2504 mg/kg	□□□□□		
	□□□□□ □□	□□□□□□□□ 11 mg/l			
	□□□□□ □/□□□	□□□□□□□□ 1,5 mg/l			

□□□□□□□□□

□□□□□□□□□□□□□□□□ (□□□□□□□□□□□)

□□□□□□□□□ (□□□□□□□□□□□)

□□□□□

□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

□□□□□□□□□□□/□□□□/□□□□□□

□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

□□□□□□□□□□□□□□□

□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

□□□□□□□□□□□□□□□

□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

□□□□□□□□□

□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

□□□□□□□□□□□□□□□□□

□□□□□□□□□□□□

□□□□□□□□□□□□□□□□□□□

□□□□□

□□□□□□EC□□No 1272/2008 [CLP]□□□□□□□□□□□□□□□□□□□□□□

12 □□□□□□

□□

□□□□□□□□□□□□: □□□□□

CAS□□	□□□					
	□□□□	□□□	[h] | [d]	□	□□□□□	□□
112-34-5	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether					
	□□□□□	LC50(50%□□□□) 1300 mg/l	96 h			
	□□□□	ErC50 100 mg/l				
	□□□□□□	EC50 100 mg/l	48 h			
141-43-5	2-aminoethanol; ethanolamine					
	□□□□□	LC50(50%□□□□) 349 mg/l	96 h			
	□□□□	ErC50 2,8 mg/l	72 h			
	□□□□□□	EC50 65 mg/l	48 h			

□□□□□□□

□□□□□□□□□□□□□□□□

□□□□□

□□□□□□□□□□□□□□□□

□□□□□□□□

□□□□□□□□□□□□□□□□

□□□□□□□□□

□□□□□□□□□□□□□□□□

□□□□□□□□□(EC)□648/2004□□ □□□□□□: 850/2004/EC, 79/117/EEC, 689/2008/EC

□□□□□□

□□□□: □□□□□□□□□□□□□□□□

□□□□□□□□□□□□□□□□□: 2 - □□□□□□

16 □□□□□□

□□□□□□□□□□

ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
CLP: Classification, labelling and Packaging
REACH: Registration, Evaluation and Authorization of Chemicals
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
UN: United Nations
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration
ATE: Acute toxicity estimate
LL50: Lethal loading, 50%
EL50: Effect loading, 50%
EC50: Effective Concentration 50%
ErC50: Effective Concentration 50%, growth rate
NOEC: No Observed Effect Concentration
BCF: Bio-concentration factor
PBT: persistent, bioaccumulative, toxic
vPvB: very persistent, very bioaccumulative
RID: Regulations concerning the international carriage of dangerous goods by rail
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)
ICAO: International Civil Aviation Organization
MARPOL: International Convention for the Prevention of Marine Pollution from Ships
IBC: Intermediate Bulk Container
VOC: Volatile Organic Compounds
SVHC: Substance of Very High Concern
□□□□□□□□□□□□□□ECHA□□□□□□□□□□□□□□□□□□□□□□□□□□□20□(□□□□□□□□)□□□□□□□□□

GHS□□□□□□□□□□□□□□□□□□□□□□□□□

□□	□□□□
Skin Corr. 1; H314	□□□□□□□□□□□
Eye Dam. 1; H318	□□□□□□□□□□□

H□□□EUH□□□□□□(□□□□□□□□□)

H302 □□□□□□□□□
H312 □□□□□□□□□□□□
H314 □□□□□□□□□□□□□□□□
H318 □□□□□□□□□

H319	□□□□□□
H332	□□□□□□□□□
H335	□□□□□□□□□□□□□

□□□□□□□□□□□□