



Direct Distributor

CLEANSE IT ALL GLOBAL
Environmentally Safer Cleansing Agents

Technical Data

Nitrate Level:	0% - None
Form:	Liquid
Odor:	Mild Soapy Odor
Cold Stability:	8° F
Detergency:	Moderate
Toxicity:	Non Toxic
Wetting Ability:	Excellent
Storage Stability:	1 Year
Shipper Regulations:	None
Flash Point:	None
Boiling Point:	210° F
Solubility in Water:	100%
Biodegradable:	Yes/100%
Volatile By Volume:	N/A
Carcinogens:	None
Viscosity:	Thin

Guarantee

EMS guarantees this product to be free from urea hydrochloride, other organic salts and traditional acids, free from defects and true to its contents. When used per label directions and dilutions, EMS guarantees the use of this products will not void your manufacturers vehicle warranty for rust, corrosion and paint.

Dissolving Properties

Calcium Carbonate Dissolving Properties of Acids

Acid	% Dissolved	Acid	% Dissolved
HCl (Muriatic)	8.9	Acetic	0.1
BlowOut	8.1	Glycolic	0.2
Urea HCl	7.2	Gluconic	0.1
Formic	0.7	Rydlyme	0.3
Phosphoric	0.9	Oxalic	0.0
Citric	0.0	Malic	0.4
Lactic	0.2		

Test Conditions
200 grams of 5% active solution
1 Calcium Carbonate Cube
3 Minutes @ 70° F

Toxicity Studies

Toxicity Limits: Test Procedure OECD 202, 48 hr.
LC 50 And LD 50 (Rat Oral) scores found Blow Out Cleaner & Descaler to be non-toxic.

Mutagenicity Limits: OECD Guidelines Sec. 471 Chemicals
Blow Out Cleaner & Descaler was found not to be mutagenic

Dermal Irritation & Corrosion Test

A modified draize method was used as described in OECD Guidelines for the Testing Of Chemicals Sec. 404 and complies with the requirements of OECD principles of GLP, Annex revised as of July 1992.

Blow Out Cleaner & Descaler received a Primary Irritation Score of 0.6 +/- 0.1 and is classified as a "Non Skin Irritant"

Biodegradation & Aquatic Safety

Test Procedure: Hach Reactor Digestion Method for waste water and sea water. Hach Reactor Digestion Method is a Semi-Micro Adaptation of the Standard Methods.

Test Results Conclude Blow Out Cleaner & Descaler was found to be 100% Biodegradable

Ecological Safety

96 hr LC50: Flathead Minnow >600 mg/l = Non-Toxic
96 hr LC50: Bluegill >20 mg/l = Non-Toxic
96hr LC50: Rainbow Trout >20 mg/l = Non-Toxic

Metal Studies

Dept. of Transportation (D.O.T.) Test Protocols as per section 173.154 Exceptions for Class 8 (corrosive materials): The material being tested must be proven to be non-destructive or not to cause irreversible alterations in human skin tissue. Testing was conducted on an albino rabbit.

Conclusion: Blow Out Cleaner & Descaler was proven to be non-destructive on human skin tissue.

Metal Test Limits: D.O.T. Classifies a material to be corrosive if it has a corrosion rate that exceeds 6.25 mmpy on SAE C1020 Carbon Steel.

Results of Blow Out Cleaner & Descaler:
SAE 1020 Carbon Steel = 0.23 mmpy

Conclusion: Blow Out Cleaner & Descaler is Non-Corrosive

Classifications & Approvals

D.O.T., TDG, IMO, IATA, IMDG, SARA 313 311/312,
California Prop 65 Non-Regulated

FDA: Approved as safe (GRAS) (CGMP) CFR 184.1923

USDA Authorization: USDA A1, A2, A3, A4, A7, A8 C2, C6, C7

Approvals

NAVSEA
NSN-6850015428898 / 5 gallon pail
NSN-68500154288904 / 55 gallon drum
NSN-68500154288912 / 275 gallon tote
U.S. Coast Guard
NOAA
HRSD for direct disposal into VA sewer system

Additional Studies & Results: When tested, Blow Out Cleaner & Descaler showed no potential for the generation of Carbon Dioxide under NIOSH 7903, OSHA & ACGIH testing protocols governing workplace environments.

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