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Safety Data Sheet Blitz PLUS

1. IDENTIFICATION

Synonyms none
 CAS# see Part 3 below
 Material Use floor stripper

IN AN EMERGENCY CALL: INFOTRAC 1-800-535-5053

2. HAZARD IDENTIFICATION

GHS Class (Category)	acute oral (4)	acute skin (4)	skin, eye corrosive (1)
Signal Words	WARNING	WARNING	DANGER
Hazard Statements	harmful if swallowed (H302)	harmful in contact with skin (H312)	causes severe skin burns & eye damage (H314)



GHS Precautionary Statements for Labeling

P262 Do not get in eyes, on skin or on clothing.
 P264 Wash thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P280 Wear protective gloves (gauntlet-style) and clothing of neoprene.

3. COMPOSITION

	CAS NUMBER	%	TLV ppm / mg/m ³	LD ₅₀ (mg/kg)		LC ₅₀ ppm INHALATION
				ORAL	SKIN	
2-Butoxyethanol	111-76-2	10-20%	20/100 (skin)	>300	>450	>450
Monoethanolamine (MEA)	141-43-5	10-20%	3 / 7.5	620	1025	>1212
Diethylene Glycol Monopropyl Ether (DPM)	34590-94-8	5-10%	100/600 (skin)	>5120	>9500	not known
Potassium Hydroxide	1310-58-3	5-10%	2mg/m ³	>205	>1260	not known
Tetrasodium Ethylenediaminetetraacetic Acid	64-02-8	5-10%	not listed	>1780	>5000	not known
Sodium Xylene Sulfonate	1300-72-7	5-10%	not listed	>7200	>2000	not known
Dioctyl Sodium Sulfosuccinate	577-11-7	1-5%	not listed	>2100	>10,000	20,000mg/m ³
Anionic Surfactant	on request	1-5%	not listed	>2000	not known	not known
Water	7732-18-5	balance	not toxic	90,000	not toxic	not toxic

NOTE: Several other components are either present at 0.1% or less, or are non-toxic and present at below 1%.

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4. FIRST AID

SKIN:	Wash with plenty of water. Remove contaminated clothing and do not reuse until laundered. Seek medical help promptly if there is persistent itching or redness in the affected area.
EYES:	Wash eyes with plenty of water, holding eyelids open. Seek medical assistance promptly if irritation occurs.
INHALATION:	Remove from contaminated area promptly. CAUTION: Rescuer must not endanger himself! If victim's breathing stops, administer artificial respiration and seek medical aid promptly.
INGESTION:	Give plenty of water to dilute product. Do not induce vomiting (NOTE below). Keep victim quiet. If vomiting occurs, lower victim's head below hips to prevent inhalation of vomited material. Seek medical help promptly.

NOTE: Inadvertent inhalation of vomited material may seriously damage the lungs. The danger of this is greater than the risk of poisoning through absorption of this relatively low-toxicity product. The stomach should only be emptied under medical supervision, after the installation of an airway to protect the lungs.

5. FLAMMABILITY & FIRE-FIGHTING

Flash Point	cannot burn
Autoignition Temperature	cannot burn
Flammable Limits	cannot burn
Combustion Products	carbon monoxide, nitrogen oxides, sulphur oxides, ammonia, sodium & potassium oxides
Firefighting Precautions	as for materials sustaining fire; firefighters must wear SCBA
Static Discharge	cannot accumulate a static charge

6. ACCIDENTAL RELEASE MEASURES

Leak Precaution	dike to control spillage and prevent environmental contamination
Handling Spill	recover free liquid with corrosion-resistant pumps; absorb residue on an inert sorbent, sweep, shovel & store in closed containers for disposal

7. HANDLING & STORAGE

Store and use away from acids. Never cut, drill, weld or grind on or near this container, whether empty or full. Always replace drum, pail or IBC cap prior to moving the container!

Avoid generating or breathing product mist. If mist forms in use, install adequate ventilation to control airborne product concentration to regulated limits (see Part 8, below). Wear suitable protective clothing & equipment. Avoid all contact with skin and wash work clothes frequently. An eye bath and safety shower should be available near the workplace.

8. EXPOSURE CONTROL & PERSONAL PROTECTION

2-Butoxyethanol:

ACGIH TLV	20ppm / 96mg/m ³ (skin)	ACGIH STEL	not listed
OSHA PEL	50ppm / 240mg/m ³ (skin)	OSHA STEL	not listed

Monoethanolamine:

ACGIH TLV	3ppm / 7.5mg/m ³	ACGIH STEL	6ppm / 15mg/m ³
OSHA PEL	3ppm / 8mg/m ³	OSHA STEL	not listed

Diethylene Glycol Monopropyl Ether:

ACGIH TLV	100ppm / 606mg/m ³ (skin)	ACGIH STEL	150ppm / 910mg/m ³ (skin)
OSHA PEL	100ppm / 600mg/m ³ (skin)	OSHA STEL	not listed

Potassium Hydroxide:

ACGIH TLV	2mg/m ³	ACGIH STEL	not listed
OSHA PEL	not listed	OSHA STEL	not listed

Ventilation	mechanical ventilation may be required to maintain airborne vapour or mist concentrations below TLV
Hands	wear gauntlet-style neoprene gloves – <i>other types also protect; always confirm suitability with supplier</i>
Eyes	safety glasses with side shields and face shield – <i>always protect eyes!</i>
Clothing	impermeable (hands, above) apron, boots, hat and long sleeves, if splashing is anticipated

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9. PHYSICAL AND CHEMICAL PROPERTIES

Odor & Appearance	clear, colorless, liquid with an odor of sassafras
Odor Threshold	not known
Vapor Pressure	as for water
Evaporation Rate (<i>Butyl Acetate = 1</i>)	as for water
Vapor Density (air = 1)	0.6 (<i>water</i>), 4.1 (<i>2-Butoxyethanol</i>), 2.1 (<i>MEA</i>), 5.1 (<i>DPM</i>),
Boiling Point	not known – above 100°C / 212°F
Freezing Point	not known – below 0°C / 32°F
Specific Gravity	1.052 – 1.062 (20/20°C)
Water Solubility	complete
Viscosity	not known – <i>slightly viscous</i>
pH	above 13 – <i>highly alkaline</i>

10. REACTIVITY

Dangerously Reactive With	strong acids
Also Reactive With	dissolves wool, leather & silk; corrodes aluminum, zinc and tin (<i>galvanized surfaces</i>)
Chemical Stability	stable; will not polymerize
Decomposes in Presence of	fire heat
Decomposition Products	none apart from Hazardous Combustion Products
Mechanical Impact	not sensitive

11. TOXICITY INFORMATION

i. ACUTE EXPOSURE

Skin Contact	corrosive to skin if not removed promptly
Skin Absorption	yes, slowly; toxic effects unlikely by this route
Eye Contact	corrosive to eyes; <i>may cause permanent damage if not removed promptly</i>
Inhalation	product mist irritates respiratory system
Ingestion	corrosive to mouth, throat and stomach; ingestion may be fatal
Calculated LD ₅₀ (oral)	>935mg/kg (rat) – <i>this calculation used the most severe LD₅₀ values available</i>
Calculated LD ₅₀ (skin)	>2200mg/kg (rabbit) – <i>this calculation used the most severe LD₅₀ values available</i>
LC ₅₀ (inhalation)	<i>insufficient data to calculate</i>

ii. CHRONIC EXPOSURE

General	prolonged or repeated exposure may cause dermatitis
Sensitizing	no component is known to be a sensitizer
Carcinogen/Tumorigen	no component is known to be a tumorigen or a carcinogen in humans or animals
Reproductive Effect	no component is known to affect human or animal reproduction
Mutagen	no component is known to be a mutagen or teratogen in humans or animals
Synergistic With	not known

12. ECOLOGICAL INFORMATION

2-Butoxyethanol:

Bioaccumulation	rapidly eliminated from the body, cannot bioaccumulate; biological ½-life <48hr
Biodegradation	biodegrades readily & rapidly in the presence of oxygen; 75%-100% in 20-28 days
Abiotic Degradation	reacts with atmospheric hydroxyl radicals; estimated ½-life in air 16 hours
Mobility in soil, water	water soluble; moves readily & rapidly in soil and water
Aquatic Toxicity	
LC ₅₀ (Fish, 96hr)	1490 & 2950mg/litre (<i>Lepomis macrochirus</i>), 1250mg/litre (<i>Menidia beryllina</i>),
EC ₅₀ (Crustacea, 24hr)	1700-1940 & 5000mg/litre (<i>Daphnia magna</i>), 600-1000mg/litre (<i>Crangon crangon</i> , 48hr)
EC ₅₀ (Algae)	35mg/litre (<i>Microcystis aeruginosa</i>), 900mg/litre (<i>Scenedesmus quadricauda</i>)
EC ₅₀ (Bacteria)	911mg/litre (<i>Chilomonas paramecium</i>), 700mg/litre (<i>Pseudomonas putida</i>)

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12. ECOLOGICAL INFORMATION, cont'd**Monoethanolamine:**

Bioaccumulation	highly water soluble & readily metabolised; cannot bioaccumulate
Biodegradation	biodegrades readily in the presence of oxygen: 97% in 4 days, 62% in 28 days, 92% in 28 days, 80% in 19 days, 80-90% in 26 days & others
Abiotic Degradation	reacts with atmospheric hydroxyl radicals; estimated ½-life in air is 11 hours & 27hours (2 tests)
Mobility in soil, water	water soluble; mobile in soil & water; but expected to become a cation & may adsorb strongly to soil
Aquatic Toxicity	
LC ₅₀ (Fish, 96hr)	227 & 2070mg/litre (Pimephales promelas); 3680 & 5000mg/litre (Brachydanio rerio), 170 & 190mg/litre (Carassius auratus), 337mg/litre (Gambusia affinis), 330mg/litre (Lepomis macrochirus), 150mg/litre (Oncorhynchus mykiss)
EC ₅₀ (Crustacea, 48hr)	65mg/litre (Daphnia magna), 120 & 140mg/litre (Daphnia magna, 24hr)
EC ₅₀ (Algae)	15mg/litre (Scenedesmus subspicatus), 70mg/litre ("other algae")
EC ₅₀ (Bacteria)	110mg/litre (Pseudomonas putida), 13.7mg/litre (Photobacterium phosphoreum)

Diethylene Glycol Monopropyl Ether:

Bioaccumulation	water soluble – cannot bioaccumulate; <i>also rapid rate of elimination/metabolism</i>
Biodegradation	biodegrades readily in the presence of oxygen; 34% in 28 days, 73% in 28 days, 93% in 13 days
Abiotic Degradation	direct photolysis is reported to cause destruction with a ½-life of 3.4 hours
Mobility in soil, water	water soluble; moves readily in soil and water
Aquatic Toxicity	
LC ₅₀ (Fish, 96hr)	>10,000mg/litre (Pimephales promelas), 150mg/litre (Nothropis atherinoides – 72hr)
LC ₅₀ (Crustacea, 48hr)	1920mg/litre (Daphnia magna), >1000mg/litre (Crangon crangon – 96hr)
EC ₅₀ (Algae)	not known
EC ₁₀ (Bacteria)	4168mg/litre (Pseudomonas putida) – <i>this is an EC₁₀ not an EC₅₀</i>

Potassium Hydroxide:

Bioaccumulation	not a bioaccumulator
Biodegradation	cannot biodegrade
Abiotic Degradation	dilutes readily in water & neutralizes with dissolved CO ₂ & atmospheric CO ₂ to potassium carbonate;
Mobility in soil, water	product is water soluble & moves readily in soil and water
Aquatic Toxicity	
LC ₅₀ (Fish, 96hr)	178mg/litre – <i>for 45% product</i> (Gambusia affinis) – <i>the pH of the test medium is not reported . . .</i>
EC ₅₀ (Crustacea, 48hr)	. . . <i>no other ecotoxicity data available . . .</i>

Tetrasodium Ethylenediaminetetraacetic Acid:

Bioaccumulation	not a bioaccumulator
Biodegradation	various values reported from 1% in 72dy to 63% in 5dy (<i>major component CAS# 64-02-8, only</i>)
Abiotic Degradation	not known
Mobility in soil, water	highly water soluble; expected to bind to soil particles; may move slowly or not at all in soil & water (<i>for major component, CAS# 64-02-8, only</i>)
Aquatic Toxicity	
LC ₅₀ (Fish, 96hr)	41, 159, 486, 532, 1030 & 2070mg/litre (Lepomis macrochirus), 60mg/litre (Pimephales promelas)
EC ₅₀ (Crustacea, 24hr)	610, 625 & 1030mg/litre (Daphnia magna), 4834mg/litre (Crangon crangon, 96hr) & <i>others</i>
EC ₅₀ (Algae)	>100mg/litre (Scenedesmus subspicatus)
EC ₁₀ (Bacteria)	55mg/litre (Pseudomonas putida), >1000mg/litre (<i>other bacteria</i>)
EC ₅ (Microbes)	663mg/litre (Chilomonas paramecium)

Variable data suggest test conditions are important in determining aquatic toxicity. Biodegradation data are also highly variable, probably for similar reasons.

Sodium Xylenesulfonate:

Bioaccumulation	not a bioaccumulator
Biodegradation	biodegrades readily & rapidly in the presence of oxygen; 69% in 5 days ¹ , 84%-88% in 28 day ¹
Abiotic Degradation	photodegradation occurs; estimated ½-life in air is ~40hr ¹
Mobility in soil, water	water soluble; moves readily in soil and water
Aquatic Toxicity	
LC ₅₀ (Fish, 96hr)	400mg/litre (Onchorhynchus mykiss), 408mg/litre (Pimephales promelas) ¹
EC ₅₀ (Crustacea, 24hr)	400 & 408mg/litre (Daphnia magna) ¹
EC ₅₀ (Algae)	230mg/litre (Selenastrum capricornutum)
EC ₅₀ (Bacteria)	not known – <i>rapid biodegradability suggests low level of harm to bacteria</i>

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12. ECOLOGICAL INFORMATION, cont'd

Diocetyl Sodium Sulfosuccinate:

Bioaccumulation	cannot bioaccumulate
Biodegradation	biodegrades readily and rapidly in the presence of oxygen; 93% in 15 days
Abiotic Degradation	not known
Mobility in soil, water	water soluble; moves readily through soil & the water column

Aquatic Toxicity

LC ₅₀ (Fish 96 hr)	49mg/litre (Danio rerio), 27mg/litre (Oncorhynchus mykiss)
LC ₅₀ (Crustacea, 48hr)	6.6, 10.3 & 36mg/litre (Daphnia magna)
EC ₅₀ (Algae, 96hr)	82.5 & 128.5mg/litre (Desmodesmus subspicatus)
LC ₅₀ (Microorganisms)	164 & 256mg/litre (Pseudomonas putida)

Anionic Surfactant:

Bioaccumulation	water soluble; cannot bioaccumulate
Biodegradation	biodegrades readily and rapidly in the presence of oxygen; >60% in 28 days (OECD 301B)
Abiotic Degradation	not known
Mobility in soil, water	water soluble; moves readily through soil & the water column

Aquatic Toxicity

LC ₅₀ (Fish 96 hr)	<i>no data available</i>
LC ₅₀ (Crustacea, 48hr)	1-10mg/litre (Daphnia magna)
EC ₅₀ (Algae, 96hr)	<i>no data available</i>
LC ₅₀ (Microorganisms)	<i>no data available – ready biodegradability suggests low toxicity to bacteria</i>

13. DISPOSAL CONSIDERATIONS

Waste Disposal **do not flush to sewer;** neutralize (carefully) with suitable acidic waste; ready biodegradability of components suggests that biological destruction in a suitable reactor is the best option

Containers **Drums** should be reused. Recondition and pressure test by a licensed reconditioner prior to re-use.

Pails must be vented and thoroughly dried prior to crushing and recycling.

IBCs (intermediate bulk containers): polyethylene bottle must be pressure tested & recertified at 30 months.

Replace at 60 months (5 years). Steel containers must be inspected, pressure tested & recertified every 5 years.

Warning: never cut, drill, weld or grind on or near this container, even if empty.

14. TRANSPORT INFORMATION

USA 49 CFR & Canada/International TDG

Product Identification Number	UN – 1760
Shipping Name	Corrosive liquids, N.O.S. (potassium hydroxide)
Classification	Class 8; Packing Group III
Marine Pollution	<i>not a marine pollutant</i>
ERAP Required	<i>No</i>



15. REGULATIONS

Canada DSL	all components on inventory
U.S.A. TSCA	all components on inventory
Europe EINECS	all components on inventory or exempt as polymers

U.S.A. Regulations:

SARA 313 Reportable	2-Butoxyethanol
SARA 311/312	Immediate Health Hazard
California Proposition 65	no components are reportable
Reportable Quantity	22,000lbs (potassium hydroxide)

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16. OTHER INFORMATION**Date of Preparation** August 2014**Date of Revision** -Prepared for Tomco-Harwel, by **Peter Bursztyn***With data from the Registry of Toxic Effects of Chemical Substances (RTECS), Hazardous Substance Data Base (HSDB), Cheminfo (CCOHS), OSHA, IUCLID Datasheets (European Chemical Substance Information System - ESIS), & others sources (below if used), as required/available****last page of SDS*****PLEASE ENSURE THAT THIS SDS IS GIVEN TO, AND EXPLAINED TO PEOPLE USING THIS PRODUCT.****EMERGENCY INFORMATION: INFOTRAC 1-800-535-5053**