



1610 N 170 E Ave. Tulsa Oklahoma 74116
 Tel: 918-439-4329 Fax: 918-439-4203
 Toll-Free 1-888-834-2001
 www.tomco-harwel.com; www.summitprochem.com



Safety Data Sheet Fat Scat

1. IDENTIFICATION

Synonyms none
 CAS# see Part 3, below
 Material Use cleaner/degreaser

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

2. HAZARD IDENTIFICATION

GHS Class *skin corrosive* *STOT*
 (Category) *(1)* *(3)*
 Signal Words *DANGER* *WARNING*
 Hazard Statements *causes severe skin burns & eye damage (H314)* *may cause respiratory tract irritation (H335)*



GHS Precautionary Statements for Labeling

P261 Avoid breathing mist of spray.
 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 and clothing of butyl or neoprene.
 P273 Avoid release to the environment.
 P391 Collect spillage.
 P304 & P340 If inhaled, remove person to fresh air and keep comfortable for breathing
 P313 & P333 If skin irritation or rash occurs, get medical advice/attention.

3. COMPOSITION

	CAS NUMBER	%	TLV ppm / mg/m ³	LD ₅₀ (mg/kg) ORAL	LD ₅₀ (mg/kg) SKIN	LC ₅₀ INHALATION
Sodium Metasilicate (<i>pentahydrate</i>)	6834-92-0	6%	not listed	850	not known	not known
Sodium Polyacrylate	9003-04-7	6%	not listed	40,000	not toxic	not toxic
Potassium Hydroxide	1310-58-3	6%	2mg/m ³	>205	>1260	not known
Lauramine Oxide	1643-20-5	5%	not listed	>2000	not known	>16mg/m ³
Glycol Ether DPM	34590-94-8	3%	100/605 (skin)	5130	>13,000	above 500ppm
Sodium Tripolyphosphate	7758-29-4	3%	not listed	3100	>4640	not known
Water	7732-18-5	balance	not toxic	90,000	not toxic	not toxic

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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 if there is any irritation.
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	oxides of: carbon, nitrogen, sodium, potassium & silicon; part oxidized hydrocarbons
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 suitable pumps; absorb residue on an inert sorbent, sweep, shovel & store in closed containers for disposal

7. HANDLING & STORAGE

Store and use away from acids.

Avoid generating or breathing product vapour or mist. If mist or vapor form in use, install adequate ventilation to maintain airborne concentration of the product below regulated limits (see Part 8, below). Avoid all contact with skin & wash work clothes frequently. An eye bath & safety shower should be available near the workplace.

8. EXPOSURE CONTROL & PERSONAL PROTECTION

Potassium Hydroxide:

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

Glycol Ether DPM:

ACGIH TLV	100ppm / 606mg/m ³	ACGIH STEL	not listed
OSHA PEL	100ppm / 600mg/m ³	OSHA STEL	150ppm / 900mg/m ³

Ventilation	mechanical ventilation is probably not required to control airborne vapour or mist to regulated limits
Hands	neoprene or butyl (gauntlet style) gloves should be resistant – <i>always confirm suitability with supplier</i>
Eyes	safety glasses with side shields or chemical goggles – <i>always protect eyes!</i>
Clothing	impermeable (hands, above) apron and boots may be worn if splashing is anticipated

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9. PHYSICAL AND CHEMICAL PROPERTIES

Odor & Appearance	clear, colorless, mobile liquid with almost no odor
Odor Threshold	not known – <i>virtually odorless</i>
Vapor Pressure	as for water
Evaporation Rate (<i>Butyl Acetate = 1</i>)	as for water
Vapor Density (air = 1)	0.6 (<i>water vapor</i>), 5.1 (<i>Glycol Ether DPM</i>) – <i>the other ingredients are not volatile</i>
Boiling Point	approx. 105°C / 221°F
Freezing Point	approx. -5°C / 23°F
Specific Gravity	1.065-1.080 (20/20°C)
Water Solubility	complete
Viscosity	not known – <i>thin, mobile liquid</i>
pH	13-14 – <i>strongly alkaline</i>

10. REACTIVITY

Dangerously Reactive With	strong acids
Also Reactive With	not known
Chemical Stability	stable; will not polymerize
Decomposes in Presence of	not known
Decomposition Products	none apart from Hazardous Combustion Products
Mechanical Impact	not sensitive

11. TOXICITY INFORMATION

i. ACUTE EXPOSURE

Skin Contact	corrosive to skin
Skin Absorption	slight; toxic effects unlikely by this route
Eye Contact	rapidly corrosive to eyes
Inhalation	product mist is irritating to the respiratory system
Ingestion	rapidly corrosive to mouth, throat & stomach; abdominal pain, nausea, vomiting
Calculated LD ₅₀ (oral)	2470mg/kg (rat)
Calculated LD ₅₀ (skin)	17,700mg/kg (rabbit) – <i>too little data for confidence</i>
LC ₅₀ (inhalation)	<i>not enough information to calculate</i>

ii. CHRONIC EXPOSURE

General	prolonged or repeated exposure to dilute product may cause dermatitis
Sensitizing	not a sensitizer
Carcinogen/Tumorigen	not known as a tumorigen or a carcinogen in humans
Reproductive Effect	no known effect on humans or animals
Mutagen	not known to be a mutagen or teratogen in humans or animals
Synergistic With	not known

12. ECOLOGICAL INFORMATION

Potassium Hydroxide:

Bioaccumulation	not a bioaccumulator
Biodegradation	cannot biodegrade
Abiotic Degradation	dilutes readily in water & neutralises 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/liter – <i>for 45% product (Gambusia affinis) – the pH of the test medium is not reported . . .</i>
EC ₅₀ (Crustacea, 48hr)	<i>. . . no other ecotoxicity data available . . .</i>

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12. ECOLOGICAL INFORMATION, cont'd

Sodium Tripolyphosphate:

Bioaccumulation	cannot bioaccumulate
Biodegradation	cannot biodegrade; plants will use it as a fertilizer (<i>phosphate ion</i>), removing it from the environment
Abiotic Degradation	gradual (faster in acidic medium) hydrolysis to orthophosphate (coupled to various metallic ions)
Mobility in soil, water	water soluble & may move readily through soil and the water column; <i>note that the phosphate ion precipitates in the presence of calcium or magnesium ions, so may not move far</i>

Aquatic Toxicity

LC ₅₀ (Fish, 48hr)	1600mg/liter (Leuciscus idus)
EC ₅₀ (Crustacea, 50hr)	1089mg/liter (Daphnia magna)
EC ₅₀ (Algae)	not toxic to aquatic life but promotes algal blooms on surface water, eventually causing eutrophication
EC ₅₀ (Bacteria)	1000mg/liter (<i>activated sludge, domestic</i>)

Sodium Polyacrylate:

Bioaccumulation	poorly absorbed and water soluble; will not bioaccumulate
Biodegradation	biodegrades slowly & incompletely; rate not known
Abiotic Degradation	not known
Mobility in soil, water	water soluble but, readily precipitated on contact with magnesium or calcium ions in soil or water

Aquatic Toxicity

LC ₅₀ (Fish 96 hr)	56,000mg/liter (<i>species of fish not given</i>)
LC ₅₀ (Crustacea, 48hr)	6000mg/liter (Daphnia magna)
EC ₅₀ (Algae, 72hr)	>100mg/liter (<i>species not given</i>)
LC ₅₀ (Microorganisms)	not known

Sodium Metasilicate pentahydrate:

Bioaccumulation	not a bioaccumulator
Biodegradation	inorganic product – does not biodegrade
Abiotic Degradation	water-soluble substance, dilutes readily in the environment; combines with metal ions to form insoluble calcium, aluminum, magnesium & iron silicates similar to naturally occurring silicates
Mobility in soil, water	water soluble; moves readily in soil and water

Aquatic Toxicity

LC ₅₀ (Fish, 96hr)	365mg/liter (Brachydanio rerio), 4037mg/liter (Gambusia affinis)
EC ₅₀ (Crustacea, 96hr)	376mg/liter (Daphnia magna), 1100mg/liter (Lymnia sp.), 278mg/liter (Hyalloella sp.)
EC ₅₀ (Algae)	no data
EC ₀ (Bacteria)	>1740mg/liter (Pseudomonas putida) – <i>this is an LC₀ – no inhibition at this dose</i>

Lauramine Oxide:

Bioaccumulation	not a bioaccumulator
Biodegradation	biodegrades readily and rapidly in the presence of oxygen; 88% in 28 days and 100% in 28 days
Abiotic Degradation	reacts with atmospheric hydroxyl radicals; estimated ½-life in air is 14 hours
Mobility in soil, water	water soluble; moves readily in soil and water

Aquatic Toxicity

LC ₅₀ (Fish, 96hr)	0.8 to 7.9mg/liter (<i>Predicted values</i>)
EC ₅₀ (Crustacea, 96hr)	1010mg/liter (Daphnia magna)
EC ₅₀ (Algae)	not known
EC ₅₀ (Bacteria)	not known

Glycol Ether DPM:

Bioaccumulation	not a bioaccumulator due to high water solubility and rapid rate of elimination/metabolism
Biodegradation	degrades readily in the presence of oxygen; various rates reported from 93% in 13d to 34% in 28d
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/liter (Pimephales promelas),
LC ₅₀ (Crustacea, 48hr)	above 1000mg/liter (Crangon crangon, 96hr), 1920mg/liter (Daphnia magna)
EC ₅₀ (Algae)	no data available
EC ₁₀ (Bacteria)	4168mg/liter (Pseudomonas putida) – <i>this is an EC₁₀ not an EC₅₀</i>

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13. DISPOSAL CONSIDERATIONS

Waste Disposal **do not flush to sewer**; disposal should be handled by a hazardous waste facility
 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

Shipping Name

Classification

Marine Pollution

ERAP Required

UN – 3266

Corrosive liquid, basic, inorganic,
 N.O.S. (potassium hydroxide)

Class 8; Packing Group III

not a marine pollutant

No

Not regulated in gallon containers.



15. REGULATIONS

Canada DSL **on inventory**

U.S.A. TSCA **on inventory**

Europe EINECS **on inventory**

16. OTHER INFORMATION

Date of Preparation **March 2015**

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

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