MAC'S TIRE BLEACH

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity
Product Name: MAC'S TIRE BLEACH
SAP Material No: NM4000
General or Generic ID: AUTOMOTIVE CHEMICAL

Company
The Valvoline Company
P.O. Box 14000
Lexington, KY 40512

Telephone Numbers
Emergency: 1-800-274-5263
Information: 1-859-357-7206

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>CAS Number</th>
<th>% (by weight)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHYLENE GLYCOL MONOBUTYL ETHER</td>
<td>111-76-2</td>
<td>0.0- 8.0</td>
</tr>
<tr>
<td>SODIUM METASILICATE PENTAHYDRATE</td>
<td>6834-92-0</td>
<td>0.0- 7.0</td>
</tr>
<tr>
<td>SODIUM TRIPOLYPHOSPHATE</td>
<td>7758-29-4</td>
<td>0.0- 6.0</td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION

Potential Health Effects

Eye
Can cause eye irritation.

Skin
Can cause skin irritation. Prolonged or repeated contact may dry and crack the skin. Passage of this material through the skin may be harmful or fatal.
MAC'S TIRE BLEACH

Swallowing
Swallowing small amounts of this material during normal handling
is not likely to cause harmful effects. Swallowing large amounts
may be harmful.

Inhalation
Breathing of vapor or mist is possible.

Symptoms of Exposure
stomach or intestinal upset (nausea, vomiting, diarrhea),
irritation (nose, throat, airways).

Target Organ Effects
Overexposure to this material (or its components) has been
suggested as a cause of the following effects in laboratory
animals, and may aggravate preexisting disorders of these organs
in humans: blood abnormalities, liver abnormalities, anemia,
spleen damage, testis damage, kidney damage, lung damage.

Developmental Information
This material (or a component) has been shown to cause harm to the
fetus in laboratory animal studies. Harm to the fetus occurs only
at exposure levels that harm the pregnant animal. The relevance
of these findings to humans is uncertain.

Cancer Information
Ethylene glycol monobutyl ether has been shown to cause cancer in
laboratory animals. The relevance of this finding to humans is
uncertain.

Other Health Effects
No data

Primary Route(s) of Entry
Inhalation, Skin absorption, Skin contact.
4. FIRST AID MEASURES

Eyes
If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.

Skin
Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

Swallowing
Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

Inhalation
If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

Note to Physicians
Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: skin.

5. FIRE FIGHTING MEASURES

Flash Point
Not applicable
MAC’S TIRE BLEACH

Explosive Limit
(for component) Lower 1.1 %

Autoignition Temperature
No data

Hazardous Products of Combustion
No data

Fire and Explosion Hazards
No data

Extinguishing Media
alcohol foam, water fog.

Fire Fighting Instructions
No special precautions necessary when fighting fires involving this product.

NFPA Rating
Health - 1, Flammability - 0, Reactivity - 0

6. ACCIDENTAL RELEASE MEASURES

Small Spill
Absorb liquid on vermiculite, floor absorbent or other absorbent material.

Large Spill
Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers.
7. HANDLING AND STORAGE

Handling
Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.

Storage
Not applicable

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection
Wear safety glasses in compliance with OSHA regulations. (Consult your safety representative.)

Skin Protection
Wear resistant gloves (consult your safety equipment supplier).
Wear normal work clothing covering arms and legs.

Respiratory Protections
Not required under normal conditions of use.

Engineering Controls
Not required under normal conditions of use.

Exposure Guidelines

Component

ETHYLENE GLYCOL MONOBUTYL ETHER (111-76-2)
OSHA VPEL 25.000 ppm - TWA ((Skin))
ACGIH TLV 20.000 ppm - TWA ((Skin))

SODIUM METASILICATE PENTAHYDRATE (6834-92-0)
No exposure limits established

SODIUM TRIPOLYPHOSPHATE (7758-29-4)
No exposure limits established
9. PHYSICAL AND CHEMICAL PROPERTIES
Boiling Point
(for product) 212.0 °F (100.0 °C) @ 760.00 mmHg
Vapor Pressure
(for component) 17.500 mmHg @ 68.00 °F
Specific Vapor Density
> 1.000 @ AIR=1
Specific Gravity
No data
Liquid Density
No data
Percent Volatiles (Including Water)
No data
Evaporation Rate
SLOWER THAN ETHYL ETHER
Appearance
No data
State
LIQUID
Physical Form
HOMOGENEOUS SOLUTION
Color
CLEAR, BLUE
Odor
No data
MAC'S TIRE BLEACH

pH
11.0 - 11.3

10. STABILITY AND REACTIVITY
Hazardous Polymerization
Product will not undergo hazardous polymerization.
Hazardous Decomposition
No data
Chemical Stability
Stable.
Incompatibility
Avoid contact with: strong mineral acids.

11. TOXICOLOGICAL INFORMATION
No data

12. ECOLOGICAL INFORMATION
No data

13. DISPOSAL CONSIDERATION
Waste Management Information
Dispose of in accordance with all applicable local, state and federal regulations.
14. TRANSPORT INFORMATION

DOT Information - 49 CFR 172.101

DOT Description: Not Regulated
Container/Mode: CASES/SURFACE - NO EXCEPTIONS
NOS Component: None

RQ (Reportable Quantity) - 49 CFR 172.101
Not applicable

15. REGULATORY INFORMATION

US Federal Regulations

CERCLA RQ - 40 CFR 302.4

<table>
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<th>Component</th>
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<tr>
<td>PENTASODIUM TRIPHOSPHATE</td>
<td>5000</td>
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SARA 302 Components - 40 CFR 355 Appendix A

None

Section 311/312 Hazard Class - 40 CFR 370.2

Immediate( ) Delayed(X) Fire( ) Reactive( ) Sudden Release of Pressure( )

SARA 313 Components - 40 CFR 372.65

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International Regulations

Inventory Status
Not determined

State and Local Regulations
California Proposition 65
None

New Jersey RTK Label Information

| 2-BUTOXY ETHANOL                  | 111-76-2 |
| SODIUM PHOSPHATE, TRIBASIC       | 7758-29-4 |

Pennsylvania RTK Label Information

| ETHANOL, 2-BUTOXY-TRIPHOSPHORIC ACID, PENTASODIUM SALT | 7758-29-4 |

16. OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.