1. chemical product and company identification

product name/use: professional spotter all purpose spotter

manufacturer: the ramsey company
120 bartlett street
marlborough, ma 01752-3065

ramsey telephone number: 800-421-2768
emergency telephone (24 hours): 800-228-5635 ext 118

2. composition/information on ingredients

<table>
<thead>
<tr>
<th>ingredients(s)</th>
<th>cas no.</th>
<th>% by weight</th>
<th>osha</th>
<th>acgih</th>
</tr>
</thead>
<tbody>
<tr>
<td>water</td>
<td>7732-18-5</td>
<td>60 - 100</td>
<td>na</td>
<td>na</td>
</tr>
<tr>
<td>diethylene glycol</td>
<td>111-90-0</td>
<td>3 - 7</td>
<td>ne</td>
<td>ne</td>
</tr>
<tr>
<td>ethyl ether</td>
<td>111-76-2</td>
<td>1 - 5</td>
<td>25 ppm (120 mg/m3)/(skin)</td>
<td>25 ppm (121 mg/m3)/(skin)</td>
</tr>
<tr>
<td>fragrance</td>
<td>na</td>
<td>&lt;0.1</td>
<td>ne</td>
<td>ne</td>
</tr>
</tbody>
</table>

na - not applicable  ne - not established

3. hazards identification

emergency overview
- clear, colorless liquid, mild, lemon odor. may cause eye irritation.

potential health effects (see section 11 for toxicological information)
- primary route(s) of exposure: _x_ eye  _x_ skin contact  _ _ skin absorption  
  _x_ inhalation  _x_ ingestion

signs and symptoms of overexposure
- eyes: may cause eye irritation. symptoms may include redness and pain.
- skin: may cause mild skin irritation. symptoms may include redness.
- ingestion: may cause mouth, throat and stomach irritation. symptoms may include nausea, vomiting and diarrhea. may also cause central nervous system effects including headache, dizziness and weakness.
- inhalation:
  high concentrations of vapor or mist may cause nose, throat and respira-
  tory tract irritation. symptoms may include coughing. high concentrations
  of vapor or mist may also cause central nervous system effects including
  headache, dizziness and nausea.
- effects of chronic exposure:
  prolonged or repeated contact may cause skin irritation.
- medical conditions aggravated:
  may aggravate pre-existing eye, skin and respiratory conditions.
4. first aid measures

eyes:
flush eyes with plenty of water while holding eyelids apart. after initial
flushing, remove any contact lenses and continue flushing for at least 15
minutes. do not put any medication in the victim's eyes unless instructed
by a physician. get medical attention.

skin:
flush with water, then wash with soap and water. remove saturated
clothing. get medical attention if irritation develops.

ingestion:
do not induce vomiting. drink large quantities of water. get immediate
medical attention. never give anything by mouth to an unconscious person.

inhalation:
remove to fresh air. if not breathing, give respiration; if breathing is
difficult, give oxygen (by trained personnel only). get medical attention
if symptoms persist.

5. fire fighting measures

flash point and method: >200.f 93.c tcc

flammable limits:
not applicable.

autoignition temperature: not applicable.

extinguishing media:
use extinguishing media appropriate for surrounding fire.

hazardous combustion products:
normal products of combustion (carbon monoxide and carbon dioxide).

fire and explosion hazards:
none known.

fire fighting instructions:
this product is not flammable. as in any fire, msha/niosh approved self-
contained breathing apparatus (scba) and full protective gear should be
worn.

6. accidental release measures

see section 8, exposure controls/personal protection and section 3, hazard
identification. floors may be slippery. use care to avoid falling. contain
and isolate spill. keep non-essential personnel from entering spill area.
use mop, absorbent, or wet vacuum to collect material for proper disposal.
rinse area with water.

7. handling and storage

handling:
follow label use directions. do not mix with other chemicals unless
instructed by label directions. avoid contact with eyes. wash thoroughly
after handling. remove saturated clothing. wash clothing and equipment
before reuse.

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professional spotter all purpose date prepared: 03/05/1997
7. handling and storage (continued)

storage:
keep container closed when not in use. store away from incompatible materials. (see section 10, stability and reactivity).

8. exposure controls/personal protection

engineering controls:
general room ventilation is expected to be adequate. if user operations generate vapor or mist, ventilation should be used to keep airborne concentrations below exposure limits (see section 2, composition/information on ingredients).

personal protection

eye:
where eye contact is possible, wear safety glasses with side shields or chemical splash goggles (ansi z87.1 approved).

skin:
where prolonged or repeated contact is possible, chemical-resistant clothing (e.g., gloves) is recommended.

respiratory:
no respiratory protection is required if ventilation is adequate.

9. physical and chemical properties

physical state: liquid
odor: mild, lemon
appearance: clear, colorless
ph: 7.2
percent volatile by weight: 99
vapor pressure: not determined
vapor density: not determined
boiling point: not determined
freezing/melting point: not determined
solubility in water: complete
evaporation rate: not determined
specific gravity: 1.00
viscosity: water thin
octanol/water partition coefficient: not determined
odor threshold: not determined

10. stability and reactivity

stability (conditions to avoid):
stable.

polymerization:
will not occur.

hazardous decomposition:
none.

incompatible materials:
oxidizers (e.g., bleach).
11. toxicological information

acute data:
no data is available for this product. the following data are available for product ingredients:

<table>
<thead>
<tr>
<th>product/ingredient</th>
<th>oral 1d50 (rat)</th>
<th>dermal 1d50 (rabbit)</th>
<th>inhalation 1c50 (rat)</th>
</tr>
</thead>
<tbody>
<tr>
<td>diethylene glycol</td>
<td>5500 mg/kg</td>
<td>8500 mg/kg</td>
<td>200 mg/l (1-hr)</td>
</tr>
<tr>
<td>ethyle ether</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-butoxyethanol</td>
<td>470 mg/kg</td>
<td>220 mg/kg</td>
<td>450 ppm (4-hr)</td>
</tr>
</tbody>
</table>

sensitization data:
no data available.

chronic data:
prolonged overexposure to high concentrations of diethylene glycol ethyl ether by ingestion has caused liver and kidney effects in laboratory animals; prolonged overexposure by dermal absorption has also caused kidney effects in animals. prolonged overexposure to high concentrations of 2-butoxyethanol by skin absorption, ingestion and inhalation has caused blood, liver and kidney effects in laboratory animals.

reproductive/teratogenic data:
no data available.

carcinogenic/mutagenic data:
not listed as carcinogenic by ntp,iarc, or acgih or regulated as a carcinogen by osha.

synergistic materials:
no data available.

12. ecological information

this product is made with all biodegradable detergents. no other data available.

13. disposal considerations

disposal of this material should be in accordance with local, state or provincial and federal regulations. the unused product, as manufactured, is a rcra non-hazardous waste in accordance with 40 cfr 261. the product has not been evaluated by the toxicity characteristic leachate procedure (tclp). according to rcra, it is the responsibility of the waste generator to ensure proper disposal.

14. transport information

dot/tdg hazardous material description: not regulated

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professional spotter all purpose
spotter

date prepared: 03/05/1997
date revised: 05/20/1997
15. regulatory information

not meant to be all-inclusive---selected regulations represented.

united states
sara title iii (superfund amendments and reauthorization act)
311/312 hazard categories: under 40 cfr 370.2, this product meets the
following hazard categories: immediate, delayed.
313 reportable ingredients: 2-butoxyethanol and diethylene glycol ethyl
ether are subject to the reporting requirements of section 313 of title iii
of the superfund amendments and reauthorization act of 1986 and 40 cfr part
372 under the chemical category glycol ethers.
cercla (comprehensive response, compensation, and liability act)
cercla regulatory: none of the ingredients in this product are reportable
under cercla.
tsca (toxic substance control act)
tsca status: this product complies with all tsca inventory requirements.

canada
whmis (workplace hazardous materials information system):
class d-division 2b, eye irritant. this product has been classified in
accordance with the hazard criteria of the canadian controlled products
regulations (cpr) and the msds contains all the information required by the
cpr.
16. other information

<table>
<thead>
<tr>
<th>health</th>
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<tbody>
<tr>
<td>flammability</td>
<td>0</td>
<td>---</td>
</tr>
<tr>
<td>reactivity</td>
<td>0</td>
<td>---</td>
</tr>
<tr>
<td>personal protection</td>
<td>-</td>
<td>---</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>nfpa rating</th>
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<tbody>
<tr>
<td>fire</td>
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health | \ / | \ reactivity
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special

msds status
revision #: 1

this msds replaces the msds. any changes in information are as follows:

approved by: eh&s/regulatory affairs
approval date: 05/20/1997

the information on this data sheet represents our current data and best
opinion as to the proper use in handling of the product under normal fore-
seeable conditions. any use of this product which is not in conformance with
this data sheet or product label, or which involves using the product in
combination with any other product or any other process is the responsibility
of the user.

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