

Section 1. Chemical identification

Name: Petroleum ether 60-80

Section 2. Composition/information on ingredients

CAS #: 8032-32-4

EINECS No: 232-453-7

Synonyms

amsco h-j; amsco h-sb; benzin b70; hi-flash naphtha; hydrotreated naphtha; naphtha; naphtha coal tar (OSHA); naphtha (OSHA); naphtha, hydrotreated; naphtha, petroleum; naphtha, solvent; petroleum benzin; petroleum-derived naphtha; petroleum distillates (naphtha) (OSHA); petroleum oil; rubber solvent (ACGIH); super vmp.

Section 3. Hazards identification

Label precautionary statements

- Highly flammable.
- Irritating to the skin
- Harmful: danger of serious damage to health by prolonged exposure.
- Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment
- Possible risk of impaired fertility
- Harmful: May cause lung damage if swallowed.
- Vapours may cause drowsiness and dizziness.
- **Target organ(s):** Central nervous system.

Safety precautions

- Keep away from sources of ignition – no smoking.
- Do not empty into drains.
- Take precautionary measures against static discharges.



**Highly
flammable**



**Dangerous to
the
environment**

Chemical

Petroleum Ether 60-80

Prepared 06/12/01
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- In case of contact with eyes rinse immediately with plenty of water and seek medical advice.
- Wear suitable protective clothing.
- Avoid release to the environment. Refer to special instructions/safety data sheet.
- Keep container tightly closed in a cool well-ventilated place.
- If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
- May develop pressure. Open carefully.



Harmful

Section 4. First aid measures

In case of eye contact, immediately flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing of the eyes by separating the eyelids with fingers, and seek medical advice.

In case of skin contact, immediately flush skin with copious amounts of water for at least 15 minutes while removing contaminated clothing and shoes.

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen.

If swallowed, wash out mouth with water provided person is conscious. Call a physician. Do not induce vomiting.

Remove and wash contaminated clothing promptly.

Section 5. Fire fighting measures

Extinguishing media

- Carbon dioxide, dry chemical powder or appropriate foam. Water may be effective for cooling, but may not effect extinguishment.

Special fire-fighting procedures

- Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
- Use water spray to cool fire-exposed containers.

Unusual fire and explosions hazards

- Extremely flammable.

- Vapour may travel considerable distance to source of ignition and flash back.
- Container explosion may occur under fire conditions.
- Forms explosive mixtures in air.

Section 6. Accidental release measures

- Evacuate area.
- Shut off all sources of ignition.
- Wear self-contained breathing apparatus, rubber boots and heavy gloves
- Cover with an activated carbon adsorbent, take up and place in closed containers. Transport outdoors.
- Take up using non-sparking tools and place in closed metal (non-flammable) containers Transport outdoors.
- Ventilate area and wash spill site after material pickup is complete.

Section 7. Handling and storage

School Storage area: **RED.**

Section 8. Exposure controls/personal protection

- Chemical safety goggles, safety shower and eye bath.
- Mechanical exhaust required.
- Rubber gloves.
- Wear approved respirator EN141 in non-ventilated areas or for exposure above the OEL.
- Do not breathe vapour.
- Safety shower and eye bath.
- Avoid contact with eyes, skin and clothing.
- Avoid prolonged or repeated exposure.
- Wash thoroughly after handling.
- Toxic liquid.
- Irritant.
- Keep container tightly closed.
- Keep away from heat, sparks and open flame.
- Store in a cool dry place.



Goggles



Gloves



Respirator



**Protective
clothing**



**Wash
hands**

Section 9. Physical and Chemical properties

Appearance and odour

Colourless liquid. Paraffin odour.

Physical properties

Boiling point: 60 to 80°C Specific gravity: 0.650

Section 10. Stability and Reactivity

Incompatibilities

Oxidising agents.

Hazardous combustion or decomposition products

Toxic fumes of: carbon monoxide, carbon dioxide.

Section 11. Toxicological information

Acute effects

- Harmful if inhaled or swallowed.
- Vapour or mist is irritating to the eyes, mucous membranes and upper respiratory tract.
- Causes skin irritation.
- Exposure can cause damage to the lungs.
- Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.

Target organ(s):

- Central nervous system

Toxicity data

orl-rat LD₅₀: >5 gm/kg

Target organ data

- Behavioural (somnolence)
- Lungs, thorax or respiration (dyspnae) (respiratory stimulation) (other changes)

Section 12. Ecological information

Data not yet available.

Section 13. disposal considerations

- Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable.
- Observe all EU, Irish and local regulations.

Section 14. Transport information

Contact chemical supplier for transportation information.

Section 15. Regulatory information

European information

- **Extremely flammable.**
- **Harmful**
- **Dangerous to the environment**

R 11 Highly flammable

R 38 Irritating to the skin

R 48/20 Harmful: danger of serious damage to health by prolonged exposure.

R 51/53 Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

R 62 Possible risk of impaired fertility

R 65 Harmful: May cause lung damage if swallowed.

R 67 Vapours may cause drowsiness and dizziness.

S 9 Keep container in a well-ventilated place.

S 16 Keep away from sources of ignition. Do not smoke.

S 23 Do not breath fumes/vapour /spray.

S 29 Do not empty into drains.

S 33 Take precautionary measures against static discharges.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 51 Use only in well ventilated areas

S 61 Avoid release to the environment. Refer to special instructions/safety data sheet



Highly flammable



Harmful



Dangerous to the environment

S 62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

OEL-IRL: TWA 300 ppm (1450 mg/m³); STEL 375 ppm (375mg/m³)(1999)

Section 16. Other information

This MSDS has been prepared in DkIT and is designed for Irish Second Level School Science Laboratories use only where quantities handled are less than 2.5 liters. The above information is believed to be correct but does not claim to be all inclusive and shall be used only as a guide. Every effort has been made to ensure that this information provided conforms with the latest available data. DkIT, the Department of Education & Science, Limerick Education Centre, Sigma, Aldrich, Fluka, Dr. Dunlevy or Ms. F. Dunlevy shall not be held liable for any information errors in this MSDS or for any damage resulting from handling or from contact with the above product.

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REFERENCES

Sigma Aldrich Fluka MSDS CD-ROM,
Sax CD-ROM,
MSDS on Internet.