1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Product Identity: Petroleum 62
Alternate Names: Kerosine (petroleum), Petroleum 62

1.2. Relevant identified uses of the substance or mixture and uses advised against
Intended use: See Technical Data Sheet.
Application Method: See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet
Company Name: Thermco Products, Inc.
10 Millpond Drive,
Unit #10
Lafayette, NJ 07848

Emergency
Customer Service: Thermco Products, Inc. 973.300.9100

2. Hazard identification of the product

2.1. Classification of the substance or mixture
- Combustible Liquid; H227: Combustible Liquid.
- Acute Tox. 4; H312: Harmful in contact with skin.
- Asp. Tox. 1; H304: May be fatal if swallowed and enters airways.

2.2. Label elements
Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.
H227 Combustible liquid.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.

[Prevention]:
P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.
P280 Wear protective gloves / eye protection / face protection.

[Response]:
P301+310 IF SWALLOWED: Immediately call a POISON CENTER or doctor / physician.
P302+352 IF ON SKIN: Wash with plenty of soap and water.
P312 Call a POISON CENTER or doctor / physician if you feel unwell.
P322 Specific measures (see information on this label).
P331 Do NOT induce vomiting.
P363 Wash contaminated clothing before reuse.

[Storage]:
P403+235 Store in a well ventilated place. Keep cool.
P405 Store locked up.

[Disposal]:
P501 Dispose of contents / container in accordance with local / national regulations.

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

<table>
<thead>
<tr>
<th>Ingredient/Chemical Designations</th>
<th>Weight %</th>
<th>GHS Classification</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kerosine (petroleum) CAS Number: 0008008-20-6</td>
<td>100</td>
<td>Asp. Tox. 1;H304</td>
<td>[1][2]</td>
</tr>
</tbody>
</table>

[1] Substance classified with a health or environmental hazard.
*The full texts of the phrases are shown in Section 16.
4. First aid measures

4.1. Description of first aid measures

General
In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation
Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

Eyes
Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

Skin
Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser. Apply cream.

Ingestion
If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

Overview
Classification Harmful: may cause lung damage if swallowed. Repeated exposure may cause skin dryness or cracking.
Additional warnings of hazards to human health and the environment: Danger of electrostatic charging. Heating or spraying may generate explosive vapor/air mixtures.
Instructions for attending physician: Prolonged and/or repeated exposure may cause skin discomfort and inflammation (dermatitis). In case of swallowing followed by vomiting, material may be aspirated into the lungs - possibly leading to pulmonary edema (wet lung).
Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.
Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage. See section 2 for further details.

Inhalation
May be fatal if swallowed and enters airways.

Skin
Harmful in contact with skin.

5. Fire-fighting measures

5.1. Extinguishing media
Recommended extinguishing media; alcohol resistant foam, CO₂, powder, water spray.
Do not use; water jet.
5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: High temperatures and fires may produce such toxic substances as carbon monoxide and carbon dioxide.

Keep away from heat / sparks / open flames / hot surfaces - No smoking.

5.3. Advice for fire-fighters

Fire-extinguishing agents that are unsuitable for safety reasons: Water, full spray

Special hazards arising from the substance or the preparation itself, its products of combustion or gases generated:

Incomplete combustion generates carbon monoxide. Vapors are heavier than air and will spread across the ground. “Floats” up and may re-ignite.

Special protective equipment for fire-fighting:

Full-protection suit, respirator with self-contained air supply.

Cool closed containers exposed to fire by spraying them with water. Do not allow run off water and contaminants from fire fighting to enter drains or water ways.

ERG Guide No. ----

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid skin and eye contact. Do not inhale vapors / aerosols. In case of heating up or spraying: eliminate all potential sources of ignition. Remove all personnel not required on site from danger zone. Take precautions against electrostatic charging. Seal leaks, without exposing yourself to personal risk.

Use personal protective clothing/equipment - also see item 8 -.

6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up

Try to prevent product from entering into sewer lines, bodies of water and soil. Notify fire department or police if product has entered bodies of water or sewer lines, or has contaminated soil and plants. Contain liquid by an appropriate barrier, e.g. sand, and pump into a specially marked container. Absorb any residues using absorbing materials (e.g. sand, oil binding agents and similar means of absorption). Properly dispose of in compliance with environmental regulations.

In case of inadvertent release (spillage) on waterways, keep barge, boat traffic, etc. at appropriate distance. Notify harbor/ river police, coast guard, etc. and prevent general public from getting close to the scene. If possible, seal leaks, without exposing yourself to personal risk. Contain liquid, if possible. Remove product from water surface by skimming or using suitable means of absorption. In case of spillage in rivers, etc., coordinate with competent authorities to allow product to sink to the bottom and/or use suitable deflocculation agents.
7. Handling and storage

7.1. Precautions for safe handling

Handling safety instructions: Avoid skin and eye contact and wear personal protective gear. Avoid inhalation of vapors / aerosols. Inside closed rooms or when filling or emptying containers, assure sufficient ventilation during operations (use local exhaust/suction system, if needed/available). In laboratories, product should only be handled underneath exhaust fan system (GLP). Use suitable precautions to prevent product from entering sewer lines, bodies of water and soil.

Fire and explosion protection instructions: In case of heating or spraying: keep away from sources of ignition. Take precautions against electrostatic charging and explosion (see relevant chemical industry/trade association publications, e.g. BG-Chemie). Any fire protection measures required must be coordinated with competent authorities.

Miscellaneous information: Empty containers may still contain product residues and thus harbor respective risks - continue to take appropriate.

See section 2 for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.

Store in a cool dry area, away from heat, sparks and open flame. Keep containers sealed when not in use. Store out of direct sunlight.

Incompatible materials: Strong oxidizing agents and acids.

Suitable materials: C-steel, high-grade (stainless) steel, polyethylene, polypropylene, polyester, teflon

Unsuitable materials: Natural rubber, butyl rubber, EPDM, polystyrene

Temperature class (Germany): T 3

See section 2 for further details. - [Storage]:

7.3. Specific end use(s)

No data available.

8. Exposure controls and personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Ingredient</th>
<th>Source</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>0008008-20-6</td>
<td>Kerosine (petroleum)</td>
<td>OSHA</td>
<td>No Established Limit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH</td>
<td>TWA: 200 mg/m3 Skin, Revised 2003</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NIOSH</td>
<td>TWA 100 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Supplier</td>
<td>No Established Limit</td>
</tr>
</tbody>
</table>
Carcinogen Data

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Ingredient</th>
<th>Source</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>0008008-20-6</td>
<td>Kerosine (petroleum)</td>
<td>OSHA</td>
<td>Select Carcinogen: No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NTP</td>
<td>Known: No; Suspected: No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>IARC</td>
<td>Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Respiratory
In case of risk that the stated boundary values may be exceeded, the following respiratory protection is recommended: filter in gas mask for org. gases and vapors (type A).

Eyes
Tightly sealing goggles with side protection.

Skin
Hydrocarbon solvent-resistant protection suit and safety shoes
Protective gloves made of Viton, e.g. Vitojekt 890 made by KCL. (permeation time > 480 min).

Engineering Controls
Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Other Work Practices
The choice of personal protective clothing depends on the hazard posed by the product, on the workplace, and on the type of handling. The suitability of protective equipment for the individual application purpose must be discussed with the manufacturer of the personal protective equipment and the government authorities. Each and every person entering the area, in which the product is handled, must wear at least protective goggles with lateral protection. Avoid exposure of the skin and eyes. Do not inhale vapors / aerosols. Do not eat, drink or smoke while working with this product. Change any wetted clothing. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear Colorless Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>typically</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not Measured</td>
</tr>
<tr>
<td>pH</td>
<td>NA</td>
</tr>
</tbody>
</table>
Melting point / freezing point: < -20 C
Initial boiling point and boiling range: 180/245 C
Flash Point: 64 C
Evaporation rate (Ether = 1): (ether =1) 750
Flammability (solid, gas): Not Applicable
Upper/lower flammability or explosive limits: Lower Explosive Limit: 0.6
Upper Explosive Limit: 7.0
Vapor pressure (Pa):
- at 20C: 1 hPa
- at 50C: 5 hPa
Vapor Density: NA
Specific Gravity:
- at 15 C: 800.0 kg/m3
Solubility in Water: Insoluble
Partition coefficient n-octanol/water (Log Kow): Not Measured
Auto-ignition temperature: > 200 C
Decomposition temperature: NA
Viscosity (cSt):
- Kinematic viscosity at 20C: 1.9 mm2/s
VOC %: NA
Molecular Weight: APP. 155 g/mol
hygroscopic: no
Solubility:
- Solubility in water at 20 C: insoluble
- Solubility in solvents at 20 C: miscible
Distribution coefficient n-octanole/water:
- 4.6 - > 7.0 (estimated)

9.2. Other information
No other relevant information.

10. Stability and reactivity

10.1. Reactivity
Hazardous Polymerization will not occur.

10.2. Chemical stability
Stable under normal circumstances.

10.3. Possibility of hazardous reactions
No data available.

10.4. Conditions to avoid
Excessive heat and open flame.

10.5. Incompatible materials
Strong oxidizing agents and acids.
10.6. Hazardous decomposition products
High temperatures and fires may produce such toxic substances as carbon monoxide and carbon dioxide.

11. Toxicological information

Acute toxicity

Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Oral LD50, mg/kg</th>
<th>Skin LD50, mg/kg</th>
<th>Inhalation Vapor LD50, mg/L/4hr</th>
<th>Inhalation Dust/Mist LD50, mg/L/4hr</th>
<th>Inhalation Gas LD50, ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kerosine (petroleum) - (8008-20-6)</td>
<td>2,835.00, Rat - Category: 5</td>
<td>2,000.00, Rabbit - Category: 4</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

<table>
<thead>
<tr>
<th>Classification</th>
<th>Category</th>
<th>Hazard Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity (oral)</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Acute toxicity (dermal)</td>
<td>4</td>
<td>Harmful in contact with skin.</td>
</tr>
<tr>
<td>Acute toxicity (inhalation)</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>
Reproductive toxicity | --- | Not Applicable
STOT-single exposure | --- | Not Applicable
STOT-repeated exposure | --- | Not Applicable
Aspiration hazard | 1 | May be fatal if swallowed and enters airways.

12. Ecological information

12.1. Toxicity
No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>96 hr LC50 fish, mg/l</th>
<th>48 hr EC50 crustacea, mg/l</th>
<th>ErC50 algae, mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kerosine (petroleum) - (8008-20-6)</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability
There is no data available on the preparation itself.

12.3. Bioaccumulative potential
Not Measured

12.4. Mobility in soil
No data available.

12.5. Results of PBT and vPvB assessment
This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects
No data available.

13. Disposal considerations

13.1. Waste treatment methods
Observe all federal, state and local regulations when disposing of this substance.
14. Transport information

<table>
<thead>
<tr>
<th>DOT (Domestic Surface Transportation)</th>
<th>IMO / IMDG (Ocean Transportation)</th>
<th>ICAO/IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Applicable</td>
<td>Not Regulated</td>
<td>Not Regulated</td>
</tr>
<tr>
<td>14.2. UN proper shipping name</td>
<td>Not Regulated</td>
<td>Not Regulated</td>
</tr>
<tr>
<td>14.3. Transport hazard class(es)</td>
<td>DOT Hazard Class: Not Applicable</td>
<td>IMDG: Not Applicable</td>
</tr>
<tr>
<td></td>
<td>DOT Label: ---</td>
<td>Sub Class: Not Applicable</td>
</tr>
<tr>
<td>14.4. Packing group</td>
<td>Not Applicable</td>
<td>Air Class: Not Applicable</td>
</tr>
<tr>
<td>14.5. Environmental hazards</td>
<td>IMDG</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>IMDG</td>
<td>Marine Pollutant: No</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>14.6. Special precautions for user</td>
<td>No further information</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

15. Regulatory information

Regulatory Overview: The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

Toxic Substance Control Act (TSCA): All components of this material are either listed or exempt from listing on the TSCA Inventory.

WHMIS Classification: B3

US EPA Tier II Hazards: Fire: Yes
Sudden Release of Pressure: No
Reactive: No
Immediate (Acute): Yes
Delayed (Chronic): No

EPCRA 311/312 Chemicals and RQs: To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 302 Extremely Hazardous: To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 313 Toxic Chemicals: To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Carcinogens (>0.0%): To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
Proposition 65 - Developmental Toxins (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Female Repro Toxins (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Male Repro Toxins (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

N.J. RTK Substances (>1%):
Kerosine (petroleum)

Penn RTK Substances (>1%):
Kerosine (petroleum)

16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:
H304 May be fatal if swallowed and enters airways.

This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

Disclaimer: This information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Document