# SAFETY DATA SHEET



Calumet 420-460

### Section 1. Identification

**GHS** product identifier : Calumet 420-460

**Product code** : 0451-00-V

Chemical name : Distillates (petroleum), hydrotreated light

: Kerosine - unspecified; Distillates, petroleum, hydrotreated light; Hydrotreated light Other means of

> distillate; Kerosene (petroleum), hydrotreated; HYDROTREATED KEROSENE; Jet fuels; Hydrotreated light distillates (petroleum); DISTILLATES; Deodorized kerosene;

Dearomatized kerosine

: Liquid. **Product type** 

identification

### Relevant identified uses of the substance or mixture and uses advised against

Identified uses		
Petrochemical industry: Petroleum refining. Solvent.		
Uses advised against	Reason	
Not available.		

: Calumet Specialty Products Partners, L.P. Supplier's details

2780 Waterfront Pkwy E. Dr.

Suite 200

Indianapolis, Indiana 46214 USA Technical Services: 317-328-5660

**Emergency telephone** number (with hours of operation)

: 24 hr. CHEMTREC 1-800-424-9300 / International 1-703-527-3887

### Section 2. Hazards identification

**OSHA/HCS** status : This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Classification of the : FLAMMABLE LIQUIDS - Category 4 ASPIRATION HAZARD - Category 1 substance or mixture

**GHS** label elements

**Hazard pictograms** 



Signal word : Danger

Combustible liquid. **Hazard statements** 

May be fatal if swallowed and enters airways.

**Precautionary statements** 

**Prevention** : Wear protective gloves. Wear eye or face protection. Keep away from flames and hot

surfaces. - No smoking.

: IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce Response

vomiting.

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### Section 2. Hazards identification

Storage Disposal

- : Store locked up. Store in a well-ventilated place. Keep cool.
- : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise

: None known.

### classified

# Section 3. Composition/information on ingredients

Substance/mixture

Substance

**Chemical name** 

: Distillates (petroleum), hydrotreated light

Other means of identification

: Kerosine - unspecified; Distillates, petroleum, hydrotreated light; Hydrotreated light distillate; Kerosene (petroleum), hydrotreated; HYDROTREATED KEROSENE; Jet fuels; Hydrotreated light distillates (petroleum); DISTILLATES; Deodorized kerosene;

Dearomatized kerosine

### **CAS** number/other identifiers

**CAS number** : 64742-47-8

Ingredient name	%	CAS number	
Distillates (petroleum), hydrotreated light	100	64742-47-8	

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

### **Description of necessary first aid measures**

**Eye contact** 

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Skin contact** 

: Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

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### Section 4. First aid measures

### Potential acute health effects

Eye contactInhalationNo known significant effects or critical hazards.No known significant effects or critical hazards.

**Skin contact**: Defatting to the skin. May cause skin dryness and irritation.

**Ingestion**: May be fatal if swallowed and enters airways.

#### Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : No specific data.

**Skin contact**: Adverse symptoms may include the following:

irritation dryness cracking

**Ingestion** : Adverse symptoms may include the following:

nausea or vomiting

### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments**: No specific treatment.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may

be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

### See toxicological information (Section 11)

### Section 5. Fire-fighting measures

### **Extinguishing media**

Suitable extinguishing

media

**Unsuitable extinguishing** 

media

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

: Do not use water jet.

Specific hazards arising from the chemical

: Combustible liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

Hazardous thermal decomposition products

: No specific data.

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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### Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

### For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

#### **Environmental precautions**

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

#### Small spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

#### Large spill

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### Section 7. Handling and storage

### **Precautions for safe handling**

#### **Protective measures**

: Put on appropriate personal protective equipment (see Section 8). Do not swallow. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not reuse container.

### Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

# including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

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### Section 8. Exposure controls/personal protection

#### **Control parameters**

### Occupational exposure limits

Ingredient name	Exposure limits
Distillates (petroleum), hydrotreated light	ACGIH TLV (United States, 4/2014). Absorbed through skin. TWA: 200 mg/m³, (as total hydrocarbon vapor) 8 hours.

# Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

# **Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### **Individual protection measures**

### **Hygiene measures**

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields.

### Skin protection

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

#### **Body protection**

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

### Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

### Respiratory protection

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

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# Section 9. Physical and chemical properties

**Appearance** 

**Physical state** : Liquid. [Mobile liquid.]

Color : Colorless.

Odor : Mild. Hydrocarbon. Odor threshold : Not available.

pН : Not available. **Melting point** : -49°C (-56.2°F)

: 222.78 to 245°C (433 to 473°F) **Boiling point** 

Flash point : Closed cup: 95°C (203°F) [Pensky-Martens.] [Product does not sustain combustion.]

**Evaporation rate** : 0.19 (butyl acetate = 1)

Flammability (solid, gas) : Not available. Lower and upper explosive : Lower: 0.6% (flammable) limits Upper: 5.5%

: 0.027 kPa (0.2 mm Hg) [room temperature] Vapor pressure

Vapor density : 4.5 [Air = 1] 0.804 **Relative density** 

Solubility : Insoluble in the following materials: cold water and hot water.

: 1.5 a/l Solubility in water

Partition coefficient: n-

octanol/water

: Not applicable.

**Auto-ignition temperature** : >220°C (>428°F) **Decomposition temperature** : Not available.

**Viscosity** : Kinematic (40°C (104°F)): 0.02 cm<sup>2</sup>/s (2 cSt)

### Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

: The product is stable. **Chemical stability** 

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid

: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not

allow vapor to accumulate in low or confined areas.

: Reactive or incompatible with the following materials: Incompatible materials

oxidizing materials

**Hazardous decomposition** 

products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

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## **Section 11. Toxicological information**

### Information on toxicological effects

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Distillates (petroleum), hydrotreated light	LD50 Dermal	Rabbit	>2000 mg/kg	-
Injures estes ingin	LD50 Oral	Rat	>5000 mg/kg	-

### **Irritation/Corrosion**

Not available.

#### **Sensitization**

Not available.

#### Mutagenicity

Not available.

#### Carcinogenicity

Not available.

### Reproductive toxicity

Not available.

### **Teratogenicity**

Not available.

### Specific target organ toxicity (single exposure)

Name		Route of exposure	Target organs
Distillates (petroleum), hydrotreated light	Category 3	Not applicable.	Narcotic effects

### Specific target organ toxicity (repeated exposure)

Not available.

### **Aspiration hazard**

Name	Result
Distillates (petroleum), hydrotreated light	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

: Routes of entry anticipated: Oral, Dermal, Inhalation.

### Potential acute health effects

Eye contactInhalationNo known significant effects or critical hazards.No known significant effects or critical hazards.

**Skin contact**: Defatting to the skin. May cause skin dryness and irritation.

**Ingestion** : May be fatal if swallowed and enters airways.

### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

**Skin contact**: Adverse symptoms may include the following:

irritation dryness cracking

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### **Section 11. Toxicological information**

**Ingestion**: Adverse symptoms may include the following:

nausea or vomiting

### Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

**Potential immediate** 

: Not available.

effects

Potential delayed effects : Not available.

**Long term exposure** 

**Potential immediate** 

: Not available.

effects

Potential delayed effects : Not available.

#### Potential chronic health effects

Not available.

General : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or

dermatitis.

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

### **Numerical measures of toxicity**

### **Acute toxicity estimates**

Not available.

# Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Distillates (petroleum), hydrotreated light	Chronic NOEL 0.48 mg/l	Daphnia	21 days

### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Distillates (petroleum),	-	-	Inherent
hydrotreated light			

#### **Bioaccumulative potential**

Not available.

#### **Mobility in soil**

Soil/water partition : Not available. coefficient (Koc)

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### **Section 12. Ecological information**

Other adverse effects : No known significant effects or critical hazards.

### Section 13. Disposal considerations

### **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# **Section 14. Transport information**

	DOT Classification	TDG Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to Annex II of MARPOL

73/78 and the IBC Code

## Section 15. Regulatory information

**U.S. Federal regulations** 

: TSCA 8(a) CDR Exempt/Partial exemption: This material is listed or exempted.

This material is listed or exempted.

Clean Air Act Section 112

(b) Hazardous Air **Pollutants (HAPs)** 

Clean Air Act Section 602

: Not listed

: Not listed

Class I Substances

: Not listed

Clean Air Act Section 602 Class II Substances

**DEA List I Chemicals** (Precursor Chemicals) : Not listed

**DEA List II Chemicals** (Essential Chemicals) : Not listed

**SARA 302/304** 

**Composition/information on ingredients** 

No products were found.

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## **Section 15. Regulatory information**

SARA 304 RQ : Not applicable.

**SARA 311/312** 

Classification : Fire hazard Composition/information on ingredients

Name	%		Sudden release of pressure		Immediate (acute) health hazard	Delayed (chronic) health hazard
Distillates (petroleum), hydrotreated light	100	Yes.	No.	No.	No.	No.

### **State regulations**

Massachusetts: This material is not listed.New York: This material is not listed.New Jersey: This material is not listed.Pennsylvania: This material is not listed.

California Prop. 65

This product is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### **International lists**

**National inventory** 

**Australia** : This material is listed or exempted. Canada : This material is listed or exempted. China : This material is listed or exempted. : This material is listed or exempted. **Europe** Japan : This material is listed or exempted. Malaysia : This material is listed or exempted. **New Zealand** : This material is listed or exempted. **Philippines** : This material is listed or exempted. Republic of Korea : This material is listed or exempted. Taiwan : This material is listed or exempted.

### Section 16. Other information

#### Procedure used to derive the classification

Classification	Justification
	Expert judgment On basis of test data

**History** 

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**Key to abbreviations** : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships,

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### **Section 16. Other information**

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations

**▼** Indicates information that has changed from previously issued version.

### **Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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