

Thank you for your interest in D.A. Stuart Company products. Please find enclosed the most current Material Safety Data Sheet (MSDS) for the product(s) requested.

The MSDS is the primary mechanism for communicating information about the potential hazards of each product and is a key part of compliance with OSHA's Hazard Communication Standard. Please see that this MSDS and/or its information reaches the individuals in your organization responsible for health, safety, environmental practices, and OSHA compliance; and to ensure that your workers who use our product understand its contents.

The MSDS also contains information concerning the presence of substances (if any) subject to the reporting requirements of Section 313 of SARA Title III. Manufacturers are required to notify you of such presence with the first shipment of each year.

D.A. Stuart is committed to providing accurate health and safety information gathered from reliable sources. In many instances, we rely on our vendors to supply us with accurate information, which is ultimately incorporated into our MSDS's. The MSDS will be updated when significant, new information is learned as required by the Standard.

Should you have any questions or comments concerning information displayed on the MSDS, please feel free to contact either D.A. Stuart Company's sales representative, or the Environmental, Health and Safety Department.

Customer: HYTROL MANUFACTURING
32863 MANOR PARK

GARDEN CITY MI 48135

Attn:

The enclosed MSDS is for the following product:

STARKUT 2039
14111.00

D. A. STUART COMPANY
MATERIAL SAFETY DATA SHEET

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SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEMICAL PRODUCT IDENTIFICATION:

PRODUCT NAME : STARKUT 2039
PRODUCT ID NUMBER : 14111.00 P01
PRODUCT CLASS : CUTTING OIL

MANUFACTURER IDENTIFICATION:

NAME : D. A. STUART COMPANY
ADDRESS : 4580 WEAVER PARKWAY
WARRENVILLE IL
60555
TELEPHONE : 630-393-0833

FOR CHEMICAL EMERGENCY

Spill, leak, fire, exposure, or accident

EMERGENCY CONTACT : CHEMTREC
EMERGENCY TELEPHONE : (800) 424-9300

SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

1

CAS# 64742-55-8
LIGHT PARAFFINIC PETROLEUM OIL
PCT BY WT: < 90
EXPOSURE LIMIT:
ACGIH TLV/TWA: 5 MG/M3 (OILMIST)
ACGIH TLV/STEL: 10 MG/M3 (OILMIST)
OSHA PEL/TWA: 5 MG/M3 (OILMIST)

2

CAS# 61788-76-9
CHLORINATED PARAFFIN
PCT BY WT: < 4
EXPOSURE LIMIT:
OTHER: THIS CONSTITUENT IS A SARA 313 REPORTABLE ITEM
(cont.) AND HAS A MANUFACTURER'S RECOMMENDED TLV OF
(cont.) 5 MG/M3 (OILMIST).

This product contains no components, present in excess of 0.1%
by weight, which are listed as carcinogens by IARC, NTP, or OSHA.

SECTION 3 - HAZARDS IDENTIFICATION

HEALTH HAZARDS (Acute and Chronic):

ACUTE HEALTH HAZARDS: prolonged or frequent contact may cause skin and
eye irritation. Inhalation of mists/vapors may cause respiratory
irritation.

CHRONIC HEALTH HAZARDS: Not determined for the product as a whole.

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MEDICAL CONDITIONS GENERALLY AGGRAVATED BY OVEREXPOSURE:
None Determined

ROUTE(S) OF ENTRY:

Inhalation?	Skin?	Ingestion?
Yes	Yes	Possible

SIGNS AND SYMPTOMS OF OVEREXPOSURE:

Possible red and/or itching skin due to overexposure.

SECTION 4 - FIRST AID MEASURES

EYE CONTACT: Flush with water at once for at least 15 minutes, lifting upper and lower lids to ensure even flushing. Seek medical attention.

SKIN CONTACT: Remove contaminated clothing immediately, and wash affected area thoroughly with soap and water. If irritation persists, seek medical attention.

INHALATION: If a person breathes in large amounts of this product, move the exposed person to fresh air at once. If breathing becomes difficult, administer oxygen and seek immediate medical attention.

INGESTION: Rinse mouth immediately. Never give anything to an unconscious person. Do not induce vomiting unless advised by a physician. Seek immediate medical attention.

SECTION 5 - FIRE FIGHTING MEASURES

FIRE AND EXPLOSIVE PROPERTIES:

Flashpoint	340.0 °F GREATER THAN
Auto-ignition temperature	-N/A
Lower Explosion Limit	-N/A
Upper Explosion Limit	-N/A

EXTINGUISHING MEDIA:

Dry Chemical, Foam, CO2, Water Fog

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Combustion and/or thermal decomposition can give off hydrogen sulfide and hydrogen chloride.

SPECIAL FIRE FIGHTING PROCEDURES:

Clear fire area of unprotected personnel. Do not enter a confined space without a helmet, face-shield, bunker coat, gloves, rubber boots, and a positive pressure NIOSH approved self-contained breathing apparatus.

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SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Persons not wearing proper personal protective equipment as stated in Section 8 should be excluded from area of spill. Extinguish all flames in the vicinity. Dike spill and soak up with inert absorbent material. Place in appropriate containers and affix proper labels.

OTHER PRECAUTIONS:

Use good personal hygiene. For industrial use only.
Avoid breathing mists and vapors. Wear all appropriate personal protection equipment at all times.

SECTION 7 - HANDLING AND STORAGE

HANDLING PRECAUTIONS:

Avoid contact with eyes, skin, and clothing. Do not get into eyes, on skin, or clothing. Wash thoroughly after handling.
Avoid breathing mist or vapor. Use only with adequate ventilation.

STORAGE REQUIREMENT:

Store in well-ventilated, cool, dry area. Keep containers closed when not in immediate use. Store with compatible materials and equipment.

Store containers closed, away from ignition sources such as open flames.
Keep away from extreme temperatures.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

EYE PROTECTION: Safety Glasses

PROTECTIVE GLOVES: Rubber, Impervious

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

An eyewash fountain should be located nearby work area at all times for emergency use.

RESPIRATORY PROTECTION (Specify Type):

If ventilation equipment is not sufficient to keep airborne concentrations below exposure limits, a NIOSH approved respirator should be worn.

VENTILATION:

Local Exhaust: Recommended
Mechanical: None Special
Special: None Special
Other: None Special

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WORK/HYGENIC PRACTICES:

Use good personal hygiene at all times. Launder soiled clothing before reuse. Wash hands thoroughly before eating or smoking.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical Appearance	:	AMBER		
Odor	:	MILD PETROLEUM		
Physical State	:	LIQUID		
pH	:	-N/A		
Vapor Pressure	:	-N/A		
Vapor Density	:	-N/A		
Boiling Range	:	Lower -	N/A	°F
	:	Higher -	N/A	°F
Water Solubility	:	INSOLUBLE		
Specific Gravity	:	.870		
Evaporation Rate	:	-N/A		

SECTION 10 - STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: None Known

INCOMPATIBILITY (Materials To Avoid): Strong oxidizing agents, strong acids
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Oxides of carbon and sulfur,
hydrogen sulfide and hydrogen
chloride.

HAZARDOUS POLYMERIZATION: Will Not Occur

CONDITIONS TO AVOID: None Known

SECTION 11 - TOXICOLOGICAL INFORMATION

Please refer to Section 3 for information on potential health effects.

SECTION 12 - ECOLOGICAL INFORMATION

Ecological testing has not been conducted on this product.

SECTION 13 - DISPOSAL CONSIDERATIONS

Follow all Federal, State, Local and Corporate Regulations for disposal. The disposal method and manner practices should be acceptable to good waste management practices and follow applicable codes and regulations.

SECTION 14 - TRANSPORT INFORMATION

DOT SHIPPING DESCRIPTION:

NOT DOT REGULATED

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SECTION 15 - REGULATORY INFORMATION

SARA 311 AND 312 INFORMATION:

This product contains the following substances defined as Hazardous by OSHA Hazard Communication Standard 29 CFR 1910.1200 (d).

CAS#	Chemical Name	% By Weight
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See Section 2

SARA 313 INFORMATION:

This product contains the following substances 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:

CHLORINATED PARAFFIN

CAS# 61788-76-9 PCT BY WT: < 4

SECTION 16 - OTHER INFORMATION

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS) INFORMATION:

Health- 1	Flammability- 1
Reactivity- 0	Personal Protective Equipment- B

PPE "B" = Safety Glasses and Gloves

Prepared by : EHS Department
MSDS Last Revision Date : 11/07/2001
MSDS Print Date : 11/19/2001

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