

The Daring Douglasses



Performer Safety
Guidelines
2008

Purpose of Document

The purpose of this document is to provide a set of safety guidelines for The Daring Douglasses that attends to the concerns of public health and safety as applied to the performance of our show in its myriad forms. This document is meant to supplement and clarify both the NFPA 160 standards involving 'Group I' devices and the NAFAA Performer Safety Guidelines. Care has been taken to attend to volatile vapor concerns, structural fire prevention, wildfire prevention, and clean air concerns. It is our hope that by the written presentation of these guidelines the concerns of local and state fire prevention units shall be allayed and that a working unity between ourselves and the fire prevention community can be established.

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MSSDS

Sheets

Coleman

Camping

Fuel

Material Safety Data Sheet Lantern Fuel (Coleman)	Revision Date: 03/19/98
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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Calumet Lubricants Company
 2780 Waterfront Pkwy E. Suite 200
 Indianapolis, IN 46214

COMPANY CONTACT: Jennifer Hall
TELEPHONE NUMBER: (318)949-2421

EMERGENCY TELEPHONE NUMBERS

Darwin Parker @ Calumet Lubricant
 (318)832-4236 8am - 4pm cst M-F.
 Chemtrec (800)424-9300 After Business Hrs.

PRODUCT NAME: Calumet Lantern Fuel (Coleman)
PRODUCT CODE: 0170-00
CHEMICAL NAME: Light Hydrotreated Distillate
CAS NUMBER: 68410-97-9
CHEMICAL FAMILY: Petroleum Hydrocarbon Naphtha
CHEMICAL FORMULA: C5-C9

2. COMPOSITION/INFORMATION ON INGREDIENTS
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INGREDIENT NAME	EXPOSURE LIMITS	CONCENTRAION PERCENT BY VOLUME
Light Hydrotreated Distillate CAS NUMBER: 68410-97-9	Petroleum Distillate (Naphtha) TWA-400ppm	100.0

3. HAZARDS IDENTIFICATION

*******EMERGENCY OVERVIEW*******

* **WARNING:** Flammable Liquid and Vapor. Harmful if inhaled *
 * and may cause delayed lung injury. Can cause nervous *
 * system depression. Aspiration hazard if swallowed - can *
 * enter lungs and cause damage. Keep away from heat, *
 * sparks, and flame. Avoid breathing vapor. Use *
 * ventilation adequate to keep vapor below recommended *
 * exposure limits. Avoid contact with eyes, skin and *
 * clothing. Wash thoroughly after handling. *

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3. HAZARDS IDENTIFICATION - Continued
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POTENTIAL HEALTH EFFECTS

PRIMARY ROUTE(S) OF ENTRY

Skin.

EYES

Tests on similar materials suggest acute irritation.

SKIN

Tests on similar materials indicate acute irritation upon short-term exposure and chronic dermatitis on prolonged contact.

INGESTION

Acute aspiration hazard. Tests on similar materials indicate the possibility of the following symptoms: headache, nausea, drowsiness, fatigue, pneumonitis, pulmonary adema, central nervous system depression, convulsions, and loss of consciousness.

INHALATION

Acute Irritation. Tests on similar materials indicate the possibility of the following symptoms: headache, nasal and respiratory irritation, nausea, drowsiness, breathlessness, fatigue, central nervous system depression, convulsions, and loss of consciousness.

CHRONIC (CANCER INFORMATION)

Prolonged and/or repeated contact with this material may produce skin and eye irritation.

Carcinogen listed by:	National Toxicology Program	(NO)
	I. A. R. C.	(NO)
	OSHA	(NO)
	ACGIH	(NO)

This product does not require a cancer hazard warning in accordance with the OSHA Hazard Communicated Standard.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Personnel with pre-existing skin disorders should avoid contact with this product.

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4. FIRST AID MEASURES

EYES

Flush eyes immediately with water a minimum of 15 minutes occasionally lifting lower and upper lids. Get medical attention promptly.

SKIN

Wash skin thoroughly with soap and water. Immediately remove contaminated clothing and launder before reuse. If irritation or rash develops, obtain medical assistance.

INGESTION

Call a physician immediately. Do not induce vomiting except at the instruction of a physician. Never give anything by mouth to an unconscious person.

INHALATION

Remove patient to fresh air and consult a physician. If breathing is difficult, give oxygen. If not breathing give artificial respiration.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT: <0°F <-18°C Tag Closed Cup
AUTOIGNITION: n/av. °F n/av. °C
FLAMMABILITY CLASS: IB
LOWER EXPLOSIVE LIMIT (%): n/av. % (estimated)
UPPER EXPLOSIVE LIMIT (%): n/av. % (estimated)

FIRE AND EXPLOSIVE HAZARDS

Can form flammable mixtures with air and flash at room temperature. Explosion hazard in fire situation. Vapor heavier than air and may travel considerable distance to a source of ignition and flash back.

EXTINGUISHING MEDIA

Dry Chemical, carbon dioxide, and foam. CAUTION: Water stream may spread fire.

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5. FIRE FIGHTING MEASURES - Continued

FIRE FIGHTING INSTRUCTIONS

Use water spray only to cool containers exposed to flames. Do not enter enclosed or a confined work space without proper protective equipment. Fire fighting personnel should wear respiratory protection (positive pressure if available). If leak or spill has not ignited, use water spray to disperse the vapors.

Products of combustion include fumes, smoke and carbon monoxide.

6. ACCIDENTAL RELEASE MEASURES

Notify emergency response personnel. Evacuate area and remove ignition sources. Build dike to contain flow. Remove free liquid. Shut off ignition source. Contain spill and keep from entering waterways or sewers. Use personal protective equipment. Advise EPA; state agency if required. Absorb on inert material. Shovel, sweep or vacuum spill and place in closed container for disposal.

7. HANDLING AND STORAGE

HANDLING AND STORAGE PRECAUTIONS

Store as OSHA Class IB flammable liquid. Keep away from flames, sparks or hot surfaces. Never use a torch to cut or weld on or near container. Empty oil containers can contain explosive vapors. Wash thoroughly after handling. Do not store with strong oxidizers. Lab samples should be sorted and handled in a lab hood. Use explosion proof ventilation equipment.

STORAGE PRECAUTIONS

Empty containers retain product residue (liquid and Vapor) and can be dangerous. Do not pressurize.
Storage Temperature: ambient or less

WORK/HYGIENIC PRACTICES

Wash hands with soap and water before eating, drinking, smoking or use of toilet facilities. Take a shower after work if general contact occurs. Remove oil-soaked clothing and launder before reuse. Launder or discard contaminated shoes and leather gloves.

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8. EXPOSURE ONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Use adequate ventilation to keep oil mists of this material below applicable standard(S). See Section on occupational exposure limits.

EYE/FACE PROTECTION

Safety glasses, splash goggles, of face shield as appropriate. Have suitable eye water wash available.

SKIN PROTECTION

Avoid prolonged and/or repeated skin contact. If prolonged contact cannot be avoided, wear protective impervious gloves and clothing. Acceptable materials for gloves are neoprene; nitrilee; viton.

RESPIRATORY PROTECTION

Up to 500 ppm hexane / 4000 ppm naptha, half mask organic vapor respirator. Up to 2500 ppm hexane / 20,000 ppm naptha, full face organic vapor respirator or full face supplied air respirator.

Greater than 2500 ppm hexane / 20,000 ppm naphtha, fire fighting, or unknown concentration, self contained breathing apparatus with positive pressure.

OTHER/GENERAL PROTECTION

If there is a likelihood of splashing, an oil resistant clothing should be worn. Never wear oil soaked clothing. Launder or dry clean before wearing. Discard oil soaked shoes. Affix warning labels on containers in accordance with 29 CFR 1910.1200 (Hazard Communication Standard).

Maintain local or dilution ventilation to keep air concentration below 50 ppm hexane / 400 ppm naphtha. Loading, unloading, tank gauging, etc., remain upwind. Request assistance of safety and industrial hygiene personnel to determine air concentrations.

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9. PHYSICAL AND CHEMICAL PROPERTIES
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APPEARANCE

Clear Liquid.

ODOR

Petroleum Naphtha.

ODOR THRESHOLD

N.D.

BASIC PHYSICAL PROPERTIES

PHYSICAL STATE: Liquid

BOILING POINT: IBF >100°F IBF >38°C

MELTING POINT: N/A°F N/A°C

VAPOR PRESSURE: 518 mm @ 68°F

VAPOR DENSITY (AIR=1): 3

SPECIFIC GRAVITY: 0.69 Water = 1

PACKING DENSITY: N/A

SOLUBILITY (H2O): negligible

PERCENT VOLATILES: 100

VOLATILE ORGANIC COMPOUNDS (VOC) CONTENT: 100.0%

EVAPORATION RATE: n/av

pH: essentially neutral

VISCOSITY: n/av

Physical data may vary slightly to meet specifications.

10. STABILITY AND REACTIVITY

STABILITY:Stable under normal conditions

CONDITIONS TO AVOID (STABILITY)

Sources of ignition.

INCOMPATIBLE MATERIALS

Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS

Incomplete combustion may produce fumes, smoke, carbon monoxide and other asphyxiants.

HAZARDOUS POLYMERIZATION:will not occur

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11. TOXICOLOGICAL INFORMATION

ACUTE STUDIES

EYE EFFECTS

Irritation on contact.

SKIN EFFECTS

May cause irritation or dermatitis with prolonged and repeated contact.

ACUTE ORAL EFFECTS

Tests on similar materials indicate an order of acute oral toxicity.

ACUTE INHALATION EFFECTS

Acute toxicity expected on inhalation

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE

Dermatitis and Sensitive skin.

This product is not listed as carcinogenic or a potential carcinogen by the National Toxicology Program, by the I.A.R.C. monographs or by OSHA. Nevertheless, good industrial hygienic practices are recommended.

12. ECOLOGICAL INFORMATION

No specific ecological data are available for this product. Please refer to Section 6 for information regarding accidental releases and Section 15 for regulatory reporting information.

13. DISPOSAL CONSIDERATIONS

Follow federal, state and local regulations. If "used", RCRA criteria must be determined. Do not flush to drain/storm sewer. Contract to authorized disposal service. If permitted incineration may be practical. Recommend recycling.

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14. TRANSPORT INFORMATION

PROPER SHIPPING NAME:

Petroleum Distillates, nos, Class 3, UN 1268, PG II

HAZARD CLASS: Class 3 Flammable Liquid
DOT IDENTIFICATION NUMBER: UN1268
DOT SHIPPING LABEL: DOT Hazardous Material

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATORY INFORMATION

SARA 302 Threshold Planning Quantity: not applicable
SARA 304 Reportable Quantity: not applicable
SARA 311 Categories: Immediate (Acute) Health Effects -- N
Delayed (Chronic) Health Effects -- Y
Fire Hazard -- Y
Sudden Release of Pressure Hazard -- N
Reactivity Hazard -- N

EPA/TSCA Inventory: The components of this product are listed on the EPA/TSCA inventory of chemicals

EPA Hazard Classification Code: NOT APPLICABLE

Comprehensive Environmental Response, Compensation and Liability Act (**CERCLA**): No chemicals in this product are subject to the reporting requirements of CERCLA Section 101(14)(F). When this product is used in a mixture, or as an ingredient in another product, or in a manufacturing operation, the petroleum exclusion may terminate and an accidental spill may require reporting to the National Response Center.

SARA TITLE III NOTIFICATIONS AND INFORMATION

SARA TITLE III - HAZARD CLASSES: Chronic Health Hazard
Fire Hazard

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15. REGULATORY INFORMATION - Continued

SARA TITLE III - SECTION 313 SUPPLIER NOTIFICATION

The following chemicals are subject to the reporting regulations of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 362:

Cyclohexane	CAS # 110-82-7	Up to 15wt %
N-Hexane	CAS # 110-54-3	Up to 25wt %

16. OTHER INFORMATION

NFPA HAZARD RATING -- HEALTH: 1 Slight
 -- FIRE: 4 Extreme
 -- REACTIVITY: 0 Negligible

PREPARED BY: Jennifer Hall **PHONE:** (318)949-2421
SUPERCEDES MSDS DATED: 04/01/96
REVISED

- 9. Physical Properties
- 15. SARA Title III
- 12. Ecological Information
- 2. Composition

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

The information contained herein is based upon data believed to be reliable and reflects our best professional judgement. Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein and assume no responsibility regarding the suitability of the information for the user's intended purpose or for the consequence of its use. Each individual should make a determination as to the suitability of the information for his/her particular purpose(s).

Zippo
Lighter
Fluid

ZIPPO MFG -- ZIPPO BLEND 1
MATERIAL SAFETY DATA SHEET
NSN: 914000N056452
Manufacturer's CAGE: 2W274
Part No. Indicator: A
Part Number/Trade Name: ZIPPO BLEND 1

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General Information
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Company's Name: ZIPPO MFG CO
Company's Street: CONGRESS ST EXTENTION
Company's City: BRADFORDE
Company's State: PA
Company's Country: US
Company's Zip Code: 16701
Company's Emerg Ph #: 814-362-4541
Company's Info Ph #: 814-362-4541
Record No. For Safety Entry: 001
Tot Safety Entries This Stk#: 001
Status: SMJ
Date MSDS Prepared: 23SEP93
Safety Data Review Date: 29DEC94
MSDS Serial Number: BWFZJ
Hazard Characteristic Code: NK

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Ingredients/Identity Information
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Proprietary: NO
Ingredient: VM & P NAPHTHA; (ALIPHATIC PETROLEUM DISTILLATES);
BP:185F/85C
@ 760 MM/HG. VP:38 MM/HG @ 68F/20C. CNTNS INGREDIENTS 2 & 3.
Ingredient Sequence Number: 01
Percent: 19
NIOSH (RTECS) Number: 1003161VN
CAS Number: 64742-89-8
OSHA PEL: 400 PPM MFR
ACGIH TLV: N/K (FP N)

Proprietary: NO
Ingredient: TOLUENE (SARA III)
Ingredient Sequence Number: 02
Percent: <7

NIOSH (RTECS) Number: XS5250000
CAS Number: 108-88-3
OSHA PEL: 200 PPM
ACGIH TLV: 50 PPM

Proprietary: NO
Ingredient: CYCLOHEXANE (SARA III)
Ingredient Sequence Number: 03
Percent: <3.5
NIOSH (RTECS) Number: GU6300000
CAS Number: 110-82-7
OSHA PEL: 300 PPM
ACGIH TLV: 300 PPM

Proprietary: NO
Ingredient: VM & P NAPHTHA; (ALIPHATIC PETROLEUM DISTILLATES);
CONTAINS
INGS 5 & 6.
Ingredient Sequence Number: 04
Percent: 81
NIOSH (RTECS) Number: 1003161VN
CAS Number: 64742-89-8
OSHA PEL: 300 PPM MFR
ACGIH TLV: 300 PPM MFR

Proprietary: NO
Ingredient: XYLENE (SARA III)
Ingredient Sequence Number: 05
Percent: <8
NIOSH (RTECS) Number: ZE2100000
CAS Number: 1330-20-7
OSHA PEL: 100 PPM
ACGIH TLV: 100 PPM

Proprietary: NO
Ingredient: BENZENE, ETHYL-; (ETHYL BENZENE) (SARA III)
Ingredient Sequence Number: 06
Percent: 2
NIOSH (RTECS) Number: DA0700000
CAS Number: 100-41-4
OSHA PEL: 100 PPM
ACGIH TLV: 100 PPM

Proprietary: NO

Ingredient: SUPDAT:AT LOCATIONS DISTANT FROM MATERIAL HANDLING POINT.

Ingredient Sequence Number: 07
NIOSH (RTECS) Number: 9999999ZZ
OSHA PEL: NOT APPLICABLE
ACGIH TLV: NOT APPLICABLE

Proprietary: NO
Ingredient: EFTS OF OVEREXP:PNEUMONITIS WHICH CAN BE FATAL.
Ingredient Sequence Number: 08
NIOSH (RTECS) Number: 9999999ZZ
OSHA PEL: NOT APPLICABLE
ACGIH TLV: NOT APPLICABLE

Proprietary: NO
Ingredient: FIRST AID PROC:WHICH CAN BE FATAL. INHAL:REMOVE TO FRESH AIR.
IF BRTHG IS DFCLT, ADMIN OXYG. IF BRTHG HAS (ING 10)
Ingredient Sequence Number: 09
NIOSH (RTECS) Number: 9999999ZZ
OSHA PEL: NOT APPLICABLE
ACGIH TLV: NOT APPLICABLE

Proprietary: NO
Ingredient: ING 9:STOPPED GIVE ARTIFICIAL RESPIRATION. KEEP PERSON WARM,
QUIET AND GET MEDICAL ATTENTION.
Ingredient Sequence Number: 10
NIOSH (RTECS) Number: 9999999ZZ
NIOSH (RTECS) Number: 9999999ZZ
OSHA PEL: NOT APPLICABLE
ACGIH TLV: NOT APPLICABLE

Proprietary: NO
Ingredient: SPILL PROC:BEEN COMPLETED. STOP SPILL AT SOURCE. PVNT FROM
ENTERING DRAINS, SEWERS, STREAMS/OTHER BODIES OF (ING 12)
Ingredient Sequence Number: 11
NIOSH (RTECS) Number: 9999999ZZ
OSHA PEL: NOT APPLICABLE
ACGIH TLV: NOT APPLICABLE

Proprietary: NO
Ingredient: ING 11:WATER. PVNT FROM SPREADING. IF RUNOFF OCCURS,
NOTIFY
AUTH AS REQ. PUMP/VACUUM TRANSFER SPILLED PROD TO (ING 13)
Ingredient Sequence Number: 12
NIOSH (RTECS) Number: 9999999ZZ
OSHA PEL: NOT APPLICABLE
ACGIH TLV: NOT APPLICABLE

Proprietary: NO
Ingredient: ING 12:CLEAN CNTNRS FOR RECOVERY. ABSORB
UNRECOVERABLE PROD.
TRANSFER CONTAM ABSORB, SOIL & OTHER MATLS TO (ING 14)
Ingredient Sequence Number: 13
NIOSH (RTECS) Number: 9999999ZZ
OSHA PEL: NOT APPLICABLE
ACGIH TLV: NOT APPLICABLE

Proprietary: NO
Ingredient: ING 13:CNTNRS FOR DISP. PVNT RUN-OFF TO SEWERS.
STREAMS/OTHER
BODIES OF WATER. IF RUN-OFF OCCURS, NOTIFY PROPER (ING 15)
Ingredient Sequence Number: 14
NIOSH (RTECS) Number: 9999999ZZ
OSHA PEL: NOT APPLICABLE
ACGIH TLV: NOT APPLICABLE

Proprietary: NO
Ingredient: ING 14:AUTHORITIES AS REQUIRED, THAT A SPILL HAS
OCCURED.
Ingredient Sequence Number: 15
NIOSH (RTECS) Number: 9999999ZZ
OSHA PEL: NOT APPLICABLE
ACGIH TLV: NOT APPLICABLE

Proprietary: NO
Ingredient: OTHER PREC:PRESENCE OF OBVIOUS IGNIT SOURCES,
PUBLISHED
"AUTOIGNIT"/"IGNIT" TEMP VALUES CANNOT BE TREATED AS (ING 17)
Ingredient Sequence Number: 16
NIOSH (RTECS) Number: 9999999ZZ
OSHA PEL: NOT APPLICABLE
ACGIH TLV: NOT APPLICABLE

Proprietary: NO
Ingredient: ING 16:SAFE OPERATING TEMPS IN CHEM PROCESSES W/OUT
ANALYSIS
OF ACTUAL PROCESS CNDTNS. ANY USE OF PROD IN (ING 18)
Ingredient Sequence Number: 17
NIOSH (RTECS) Number: 9999999ZZ
NIOSH (RTECS) Number: 9999999ZZ
OSHA PEL: NOT APPLICABLE
ACGIH TLV: NOT APPLICABLE

Proprietary: NO
Ingredient: ING 17:ELEVATED TEMP PROCESSES SHOULD BE THORO
EVALUATED TO
ESTABLISH & MAINTAIN SAFE OPERATING CNDTNS. (ING 19)
Ingredient Sequence Number: 18

NIOSH (RTECS) Number: 9999999ZZ
OSHA PEL: NOT APPLICABLE
ACGIH TLV: NOT APPLICABLE

Proprietary: NO
Ingredient: ING 18:HYDROCARBON SOLVS ARE BASICALLY NON-CONDUCTORS
OF
ELECTRICITY & CAN BECOME ELECTROSTATICALLY CHARGED (ING 20)
Ingredient Sequence Number: 19
NIOSH (RTECS) Number: 9999999ZZ
OSHA PEL: NOT APPLICABLE
ACGIH TLV: NOT APPLICABLE

Proprietary: NO
Ingredient: ING 19:DURING MIX, FILTERING/PUMPING AT HIGH FLOW
RATES. IF
CHARGE REACHES A SUFFICIENTLY HIGH LEVEL, SPKS CAN (ING 21)
Ingredient Sequence Number: 20
NIOSH (RTECS) Number: 9999999ZZ
OSHA PEL: NOT APPLICABLE
ACGIH TLV: NOT APPLICABLE

Proprietary: NO
Ingredient: ING 20:FORM THAT MAY IGNITE VAPORS OF FLAMMABLE
LIQUIDS.
Ingredient Sequence Number: 21
NIOSH (RTECS) Number: 9999999ZZ
OSHA PEL: NOT APPLICABLE
ACGIH TLV: NOT APPLICABLE

Proprietary: NO
Ingredient: RESP PROT:(SEE YOUR INDUS HYGIENIST).
ENGINEERING/ADMIN
CONTROLS SHOULD BE IMPLEMENTED TO REDUCE EXPOSURE.
Ingredient Sequence Number: 22
NIOSH (RTECS) Number: 9999999ZZ
OSHA PEL: NOT APPLICABLE
ACGIH TLV: NOT APPLICABLE

Proprietary: NO
Ingredient: PROT GLOVES:(SAFETY EQUIPMENT SUPPLIER).
Ingredient Sequence Number: 23
NIOSH (RTECS) Number: 9999999ZZ
OSHA PEL: NOT APPLICABLE
ACGIH TLV: NOT APPLICABLE

Proprietary: NO
Ingredient: EYE PROT:W/OSHA REGS ARE ADVISED; HOWEVER, OSHA REGS
ALSO
PERMIT OTHER TYPE SFTY GLASSES. CONSULT YOUR SFTY (ING 25)
Ingredient Sequence Number: 24
NIOSH (RTECS) Number: 9999999ZZ
OSHA PEL: NOT APPLICABLE

OSHA PEL: NOT APPLICABLE
ACGIH TLV: NOT APPLICABLE

Proprietary: NO
Ingredient: ING 24:REPRESENTATIVE.
Ingredient Sequence Number: 25
NIOSH (RTECS) Number: 9999999ZZ
OSHA PEL: NOT APPLICABLE
ACGIH TLV: NOT APPLICABLE

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Physical/Chemical Characteristics
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Appearance And Odor: NONE SPECIFIED BY MANUFACTURER.
Boiling Point: ING 1
Vapor Pressure (MM Hg/70 F): ING 1
Vapor Density (Air=1): >1.00
Specific Gravity: 0.73
Evaporation Rate And Ref: SLOWER THAN ETHER
Percent Volatiles By Volume: 100.00
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Fire and Explosion Hazard Data
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Flash Point: >35F,>2C
Lower Explosive Limit: 0.9%
Extinguishing Media: REGULAR FOAM OR CARBON DIOXIDE OR DRY
CHEMICAL.
Special Fire Fighting Proc: WEAR NIOSH/MSHA APPROVED SCBA & FULL
PROTECTIVE EQUIPMENT (FP N).
Unusual Fire And Expl Hazrds: NEVER USE WELDING/CUTTING TORCH
ON/NEAR DRUM
(EVEN EMPTY) BECAUSE PROD (EVEN JUST RESIDUE) CAN IGNITE EXPLOS.
ALL FIVE
GALLON PAILS & LGR METAL CNTNRS (SUPDAT)
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Reactivity Data
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Stability: YES
Cond To Avoid (Stability): NONE SPECIFIED BY MANUFACTURER.
Materials To Avoid: AVOID CONTACT WITH STRONG OXIDIZING AGENTS.
Hazardous Decomp Products: MAY FORM TOXIC MATERIALS; CARBON
DIOXIDE AND
CARBON MONOXIDE, VARIOUS HYDROCARBONS, ETC.

Hazardous Poly Occur: NO
Conditions To Avoid (Poly): NOT RELEVANT

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Health Hazard Data
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LD50-LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.
Route Of Entry - Inhalation: YES
Route Of Entry - Skin: YES
Route Of Entry - Ingestion: NO
Health Haz Acute And Chronic: NOTE:TOLUENE APPEARS ON NAVY
LISTING OF
OCCUP CHEM REPRO HAZS. SEEK CONSULTATION FROM APPROP HLTH
PROFESSIONALS
EYES:EXPOS TO LIQ/VAP MAY CAUSE MILD IRRIT. SYMPS MAY INCLUDE
STINGING,
TEARING & REDNESS. SKIN:MILD IRRIT. PRLNGD/ (EFTS OF OVEREXP)
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: NOT RELEVANT
Explanation Carcinogenicity: NOT RELEVANT
Signs/Symptoms Of Overexp: HLTH HAZS:RPTD EXPOS MAY DRY SKIN.
SYMPS MAY
INCLUDE REDNESS, BURNING, DRYING & CRACKING & BURNS.
INHAL:EXCESSIVE INHAL
OF VAPS CAN CAUSE NASAL & RESP IRRIT, CNS EFTS INCLUDING DIZZ,
WEAK, FATG,
NAUS, HDCH & POSS UNCON & EVEN DEATH. INGEST:GI IRRIT, NAUS,
VOMIT & DIARR.
ASPIR OF MATL INTO LUNGS CAN CAUSE CHEM (ING 8)
Med Cond Aggravated By Exp: NONE SPECIFIED BY MANUFACTURER.
Emergency/First Aid Proc: SKIN:REMOVE CONTAM CLTHG & LAUNDRER
BEFORE REUSE.
WASH EXPOSED AREA W/SOAP & WATER. IF SYMPS PERSIST, SEEK MED
ATTN.
EYES:MOVE AWAY FROM EXPOS & INTO FRESH AIR. FLUSH W/CLEAN WATER
FOR AT
LEAST 15 MIN WHILE HOLDING EYELIDS APART. IF SYMPS PERSIST, SEEK
MED ATTN.
INGEST:DO NOT INDUCE VOMIT, KEEP PERSON WARM,QUIET, & GET MED
ATTN. ASPIR
OF MATL INTO LUNGS DUE TO VOMIT CAN CAUSE CHEM PNEUM (ING 9)

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Precautions for Safe Handling and Use
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Steps If Matl Released/Spill: SM SPILL:ABSORB LIQ ON VERMICULITE,
FLOOR

ABSORB/OTHER ABSORB MATL. LG SPILL:ELIM ALL IGNIT SOURCES
(FLARES, FLAMES

INCLUDING PILOT LIGHTS, ELEC SPKS). PERSONS NOT WEARING PROT
EQUIP SHOULD

BE EXCLUDED FROM AREA OF SPILL UNTIL CLEAN-UP HAS (ING 11)

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Method: SMALL SPILL:DISPOSE OF IN ACCORDANCE WITH
ALL

LOCAL, STATE AND FEDERAL REGULATIONS. LARGE SPILL:DISPOSE OF IN
ACCORDANCE

WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

Precautions-Handling/Storing: CONTAINERS OF MATERIAL MAY BE
HAZARDOUS WHEN

EMPTIED, SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES (VAPOR,
LIQUID,
AND/OR SOLID).

Other Precautions: ALL HAZ PREC GIVEN IN THIS DATASHEET MUST BE
OBSERVED.

WARNING!!! SUDDEN RELS OF HOT ORGANIC CHEM VAPS/MISTS FROM
PROCESS EQUIP

OPERATING AT ELEVATED TEMPS & PRESS/SUDDEN INGRESS OF AIR INTO
VACUUM EQUIP

MAY RSLT IN IGNITS W/OUT (ING 16)

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Control Measures
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Respiratory Protection: IF WORKPLACE EXPOS LIM OF PROD/ANY
COMPONENT IS

EXCEEDED , A NIOSH/MSHA APPRVD AIR SUPPLIED RESP IS ADVISED IN
ABSENCE OF

PROPER ENVIRON CONTROL. OSHA REGS ALSO PERMIT OTHER NIOSH/MSHA
RESPS (NEG-

PRESS TYPE) UNDER SPECIFIED CNDTNS (ING 21)

Ventilation: PROVIDE SUFFICIENT MECHANICAL (GENERAL AND/OR LOCAL
EXHAUST)

VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S).

Protective Gloves: WEAR RESIST GLOVES (CONSULT YOUR(ING 22)

Eye Protection: CHEM SPLASH GOGGS IN COMPLIANCE (ING 23)

Other Protective Equipment: TO PREVENT REPEATED OR PROLONGED SKIN
CONTACT,

WEAR IMPERVIOUS CLOTHING AND BOOTS. EYEWASH FNTN & DELUGE SHWR (FP
N).

Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER.

Label Name: ZIPPO MFG CO
Label Street: CONGRESS ST EXTENTION
Label City: BRADFORDE
Label State: PA
Label Zip Code: 16701
Label Country: US
Label Emergency Number: 814-362-4541