



Safety Data Sheet

Date Authored: July 25, 2012

Date Issued: February 25, 2014

Section I - Chemical Product and Company Identification

Material Name:	HOLD 4400	HMIS:	3-3-0-C
Chemical Family:	None		
CAS Reg. No.:	None		
Function:	Paraffin Inhibitor		
Distributor:	Danlin Industries Corporation		
Physical Address:	23737 Hwy 47 Thomas, OK 73669	Mailing Address:	P. O. Box 307 Thomas, OK 73669
Phone Number:	(580) 661-3248	Emergency Number:	(800) 424-9300 CHEMTREC
Prepared By:	Danlin Industries Corporation		

Section II - Hazards Identification

Emergency Overview: DANGER

HIGHLY FLAMMABLE LIQUID AND VAPOR
MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS
CAUSES SKIN IRRITATION
CAUSES SERIOUS EYE DAMAGE
MAY BE HARMFUL IF INHALED
MAY CAUSE GENETIC DEFECTS
MAY DAMAGE FERTILITY OR THE UNBORN CHILD
HARMFUL TO AQUATIC LIFE



Primary Routes of Exposure: EYE CONTACT, SKIN ABSORPTION AND CONTACT, INGESTION, INHALATION

Precautionary Overview:

Ground/bond container and receiving equipment.
Use explosion-proof equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wear protective gloves/protective clothing/eye protection/face protection.
Dispose of contents/container in accordance with local/regional regulation.
Store locked up.
Wash thoroughly after handling.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Use personal protective equipment as required.
Avoid release to the environment.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Do NOT induce vomiting.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF exposed or concerned: Get medical advice/attention.
If skin irritation occurs: Get medical advice/attention.
In case of fire: Use agents approved for Class B hazards (i.e. water fog, foam, dry chemical, carbon dioxide) for extinction.
Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Eye Contact: May cause eye irritation, burns.
Skin Contact: May cause skin irritation, sensitization.
Inhalation: May cause irritation of respiratory tract, decreased breathing capacity.
Ingestion: May be poisonous or fatal if swallowed.

Target(Organs): CNS, Liver, Kidneys
Systems(Affected): CNS, Liver, Kidneys, Skin, Respiratory

Carcinogenicity: NTP: No **IARC Monographs:** No **OSHA Regulated:** No

Section III - Hazardous Ingredients

Components	Wt. %	CAS #	OSHA		ACGIH		OTHER
			PEL	STEL	TWA	STEL	
VM&P Naphtha	<25	64742-89-8	NA	NA	100ppm	NA	
Heavy Aromatic Solvent	<5	64742-94-5	100ppm	NA	86ppm	NA	
Methyl Isobuytl Ketone	<5	108-10-1	100ppm	NA	20ppm	75ppm	RQ 5000
Xylene	<5	1330-20-07	100ppm	NA	100ppm	150ppm	RQ 100
Naphthalene	<1	91-20-3	10ppm	NA	10ppm	15ppm	RQ 100
Toluene	<1	108-88-3	200ppm	NA	20ppm	NA	RQ 1000

Section IV - First Aid Measures

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, while holding eyelids apart to ensure flushing of entire surface. Get immediate medical attention.

Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes, while removing contaminated clothing, including shoes. Thoroughly clean clothing and shoes before reuse. Get medical attention.

Inhalation: Remove to fresh air. Give artificial respiration if not breathing. Give oxygen if breathing is difficult. Keep victim warm and Get immediate medical attention.

Ingestion: If swallowed, do not induce vomiting. Keep victims head below knee level to prevent vomit from aspiration into lungs. Get immediate medical attention. **NOTE:** Never give anything by mouth to an unconscious person.

Section V - Fire Fighting Measures

Extinguishing Media. Agents approved for Class B hazards, (i.e., water fog, foam, dry chemical, carbon dioxide).
Special Fire Fighting Procedures. Do not enter confined space without full bunker gear and self contained breathing apparatus. Treat as Class B oil fire. Keep sealed containers cool with water spray.
Unusual Fire and Explosion Hazards: **Flammable liquid.** Vapor may explode if ignited in enclosed area. Containers may explode from internal pressure if confined to fire. Cool with water.

Section VI - Accidental Release Measures

Steps To Be Taken In Case Material is Released or Spilled: Responders should wear PPE. Evacuate all unnecessary personnel from area. Remove or shut off all sources of ignition. Increase ventilation if possible. Stop leak if possible. Spilled material should be contained and removed by mechanical means, such as, absorbing with inert material and placing it in a properly labeled waste receptacle. Do not let run off water go to lakes, streams, etc.

Section VII - Handling and Storage

Precautions To Be Taken In Handling and Storing: Use appropriate PPE as outlined in Section VIII. Keep away from ignition sources (e.g., heat, sparks, flames, etc.). Keep container closed. Ground and bond containers when transferring liquids. Use with adequate ventilation. Do not breathe vapors. Do not cut, puncture, or weld on or near this container.

Store away from oxidizer or other materials bearing a yellow "D.O.T." label.

Section VIII - Exposure Controls/Personal Protective Measures

Components	List	Type	Value
Heavy Aromatic Solvent	ACGIH	TWA	86ppm
	OSHA	TWA	100ppm
	ACGIH	TWA	20ppm
Methyl Isobuytl Ketone	ACGIH	STEL	75ppm
	ACGIH	Notation:	End of shift, MIBK in urine 2 mg/L
	OSHA	TWA	100ppm
Naphthalene	ACGIH	TWA	10ppm

Toluene	ACGIH	STEL	15ppm
	ACGIH	Notation:	SKIN; Not Classifiable as a Human Carcinogen
	OSHA	TWA	10ppm
	ACGIH	TWA	20ppm
	ACGIH	Notation:	Not Classifiable as a Human Carcinogen; Prior to last shift of workweek, Toluene in blood 0.05 mg/l
VM&P Naphtha Xylene	OSHA	TWA	200ppm
	OSHA	Ceiling	300ppm
	OSHA	PEAK	500ppm(10min max)
	ACGIH	TWA	100ppm
	ACGIH	TWA	100ppm
	ACGIH	STEL	150ppm
	ACGIH	Notation:	Not Classifiable as a Human Carcinogen; End of shift, Methylhippuric acids in urine 1.5 g/g creatinine
	OSHA	TWA	100ppm

Respiratory Protection: Use OSHA/NIOSH/MSHA approved air supplied respirator for organic vapors. Entry into confined space requires self contained positive breathing apparatus.

Ventilation: **Local Exhaust:** Yes, equal to fresh air
Mechanical Exhaust: Exhaust fan recommended to control exposure levels.
Special: Control airborne concentrations below exposure guidelines.

Personal Protective Equipment: Chemical resistant gloves (polyvinyl alcohol or Buna-N), chemical splash goggles, chemical resistant footwear, and chemical resistant aprons are recommended when handling the product.

Other Protective Equipment: Eye wash and safety showers should be readily available

Work and Hygienic Practices: Avoid breathing chemicals, wash hands before eating, drinking or smoking

Section IX - Physical and Chemical Properties

Appearance/Odor:	Clear Lt. Amber/Solvent	pH:	NA
State:	Liquid	Solubility in Water:	Not Soluble
Specific Gravity (g/ml):	0.832 to 0.912	Pour Point:	12°F
Boiling Point:	233.6°F	Viscosity(cps):	1.074 @76.6°F
Flash Point:	48°F	Vapor Pressure:	4.336
UEL (Calculated):	7.9%	Evaporation Rate:	N/D
LEL (Calculated):	1.3%	Vapor Density:	N/D
Auto-ignition Temperature:	N/D	n-Octanol/Water:	N/D
Decomposition Temperature:	N/D		

Section X - Stability and Reactivity

Chemical Stability	Stable
Conditions to Avoid	Ignition sources, eg., sparks and flame
Incompatible Materials	Strong oxidizing agents (bromine, chlorine, hydrogen peroxide, etc.) and strong bases
Decomposition Products	Thermal Decomposition: Carbon dioxide, carbon monoxide, smoke and oxides of nitrogen
Hazardous Polymerization	Will not occur

Section XI - Toxicological Information

No specific toxicity tests have been conducted on this product. Components have shown to be toxic.

HEXONE (MIBK, 2-METHYL-4-PENTANONE, METHYL ISOBUTYL KETONE) - A poison by intraperitoneal route. Moderately toxic by ingestion. Mildly toxic by inhalation. Very irritating to the skin, eyes, and mucous membranes. An experimental teratogen. A human systemic irritant by inhalation. Narcotic in high concentration.

TOXICITY DATA:

Eye effects-Human 200 ppm/15M; **Skin-Rabbit**, adult 500 mg/24H Mild irritation effects; **Eye effects-Rabbit**, adult 500 mg/24H Mild irritation effects; **Eye effects-Rabbit**, adult 40 mg Severe irritation effects; **Eye effects-Rabbit**, adult 500 mg/24H Mild irritation effects **Inhalation-Mouse** TClO: 3000 ppm/6H (female 6-15D post): Teratogenic effects; **Oral-Rat** LD₅₀: 2080 mg/kg; **Intraperitoneal-Rat** LD₅₀: 400 mg/kg; **Oral-Mouse** LD₅₀: 2671 mg/kg; **Inhalation-Mouse** LC₅₀: 23,300 mg/m³; **Intraperitoneal-Mouse** LD₅₀: 268 mg/kg; **Oral-Guinea Pig**, adult LD₅₀: 1600 mg/kg

NAPHTHALENE - Human poison by ingestion. Experimental poison by ingestion, intravenous, and intraperitoneal routes. Moderately toxic by subcutaneous route. An experimental teratogen. Experimental reproductive effects. An eye and skin irritant. Can cause nausea, headache,

diaphoresis, hematuria, fever, anemia, liver damage, vomiting, convulsions, and coma. Poisoning may occur by ingestion of large doses, inhalation, or skin absorption. Questionable carcinogen with experimental tumorigenic data.

TOXICITY DATA:

Skin-Rabbit, adult 495 mg open Mild irritation effects; **Eye effects-Rabbit**, adult 100 mg Mild irritation effects; **Oral-Mouse** TDLo: 2400 mg/kg (7-14D preg): Reproductive effects; **Intraperitoneal -Rat** TDLo: 5925 mg/kg (1-15D preg): Teratogenic effects; **Subcutaneous-Rat** TDLo: 3500 mg/kg/12W-I: Equivocal tumorigenic agent; **Oral-Child** LDLo: 100 mg/kg; **Unreported-Human** LDLo: 29 mg/kg; **Unreported-Man** LDLo: 74 mg/kg; **Oral-Rat** LD₅₀: 490 mg/kg; **Oral-Mouse** LD₅₀: 533 mg/kg; **Intraperitoneal-Mouse** LD₅₀: 150 mg/kg; **Subcutaneous-Mouse** LD₅₀: 969 mg/kg; **Intravenous-Mouse** LD₅₀: 100 mg/kg; **Oral-Dog**, adult LDLo: 400 mg/kg; **Oral-Cat**, adult LDLo: 1000 mg/kg; **Oral-Rabbit**, adult LDLo: 3 g/kg; **Oral-Guinea Pig**, adult LD₅₀: 1200 mg/kg

TOLUENE - Poison by intraperitoneal route. Moderately toxic by intravenous and subcutaneous routes. Mildly toxic by inhalation. An experimental teratogen. Human systemic effects by inhalation: CNS recording changes, hallucinations or distorted perceptions, motor activity changes, antipsychotic, psychophysiological test changes, and bone marrow changes. Experimental reproductive effects. Mutation data reported. A human eye irritant. An experimental skin and severe eye irritant.

TOXICITY DATA:

Eye effects-Human 300 ppm; **Skin-Rabbit**, adult 435 mg Mild irritation effects; **Skin-Rabbit**, adult 500 Moderate irritation effects; **Eye effects-Rabbit**, adult 870 mg Mild irritation effects; **Eye effects-Rabbit**, adult 2 mg/24H Severe irritation effects; **Eye effects-Rabbit**, adult 100 mg/30S rns Mild irritation effects; **oms-grasshopper-Inhalation** 562 mg/L; **Cytogenetic Analysis-Rat-Subcutaneous** 12 g/kg/12D-I; **Inhalation-Mouse** TCLo: 400 ppm/7H (female 7-16D post): Reproductive effects; **Oral-Mouse** TDLo: 9 g/kg (female 6-15D post): Teratogenic effects; **Oral-Human** LDLo: 50 mg/kg; **Inhalation-Human** TCLo: 200 ppm: BRN, Central nervous system effects, Blood effects; **Inhalation-Man** TCLo: 100 ppm: Central nervous system effects; **Oral-Rat** LD₅₀: 5000 mg/kg; **Inhalation-Rat** LCLo: 4000 ppm/4H; **Intraperitoneal-Rat** LD₅₀: 1332 mg/kg; **Intravenous-Rat** LD₅₀: 1960 mg/kg; **Unreported-Rat** LD₅₀: 6900 mg/kg; **Inhalation-Mouse** LC₅₀: 400 ppm/24H; **Intraperitoneal-Mouse** LD₅₀: 59 mg/kg; **Subcutaneous-Mouse** LD₅₀: 2250 mg/kg; **Unreported-Mouse** LD₅₀: 2 g/kg; **Intraperitoneal-Mouse** LD₅₀: 640 mg/kg; **Inhalation-Rabbit**, adult LCLo: 55,000 ppm/40M; **Skin-Rabbit**, adult LD₅₀: 12,124 mg/kg

XYLENE - Moderately toxic by intraperitoneal and subcutaneous routes. Mildly toxic by ingestion and inhalation. An experimental teratogen. Human systemic effects by inhalation: olfactory changes, conjunctiva irritation, and pulmonary changes. Experimental reproductive effects. Mutation data reported. A human eye irritant. An experimental skin and severe eye irritant. Some temporary corneal effects are noted, as well as some conjunctival irritation by instillation (adding drops to the eyes one drop at a time). Irritation can start @ 200 ppm.

TOXICITY DATA:

Eye effects-Human 200 ppm; **Skin-Rabbit**, adult 100% Moderate irritation effects; **Skin-Rabbit**, adult 500 mg/24H Moderate irritation effects; **Eye effects-Rabbit**, adult 87 mg Mild irritation effects; **Eye effects-Rabbit**, adult 5 mg/24H Severe irritation effects; **Cytogenetic Analysis-Saccharomyces cerevisiae** 1 mmol/tube; **Inhalation-Rat** TCLo: 50 mg/m³/6H (female 1-21D post): Reproductive effects; **Inhalation-Rat** TCLo: 50 mg/m³/6H (female 1-21D post): Teratogenic effects; **Oral-Human** LDLo: 50 mg/kg; **Inhalation-Man** LCLo: 10,000 ppm/6H; **Inhalation-Human** TCLo: 200 ppm: NOSE, Eye effects, Pulmonary system effects; **Oral-Rat** LD₅₀: 4300 mg/kg; **Inhalation-Rat** LC₅₀: 5000 ppm/4H; **Intraperitoneal-Rat** LD₅₀: 2459 mg/kg; **Oral-Unspecified effects** LD₅₀: 4300 mg/kg; **Inhalation-Unspecified effects** LC₅₀: 30 g/m³

Section XII - Ecological Considerations

Ecological testing has not been conducted on this product. Material should be considered hazardous to aquatic life.

Section XIII - Disposal Considerations

Waste Classification: Material should be disposed of by incineration or in an approved landfill in accordance with all federal, state, and local regulations. Under RCRA, it is the responsibility of the user of the product to determine at the time of disposal, whether the products meets RCRA criteria for hazardous waste. This is because product uses, transformations, mixtures, processes, etc. may render the resulting material hazardous.

The container of this product can present physical or health hazards, even when emptied! To avoid risk of injury, do not cut, puncture, or weld on or near this container. Since emptied containers retain product residue, follow label warnings even after container is emptied.

Section XIV - Transportation Information

DEPARTMENT OF TRANSPORTATION:

DOT Identification Number:	UN1993
DOT Proper Shipping Name:	UN1993, Flammable liquid, n.o.s., (Contains Toluene and VM&P Naphtha), 3, PGII
DOT Hazard Class:	3
DOT Identification Name:	Flammable liquid, n.o.s.
DOT Packaging Group:	PGII
RQ	Toluene (1,707 lbs or 235 gallons)
2012 ERG Number:	128

Section XV - Regulatory Information

TSCA: Components of this product are listed on the TSCA Inventory.

CERCLA: If reportable quantity of this product is accidentally spilled the incident is subject to the provisions of the Comprehensive Environmental Response, Compensation, and Liability Act and must be reported to the National Response Center by calling (800) 424-8802.

<u>CERCLA Component</u>	<u>CAS #</u>	<u>Wt. %</u>	<u>RQ, lbs</u>	<u>Product RQ Value</u>
Toluene	108-88-3	58.6	1000	1,707 lbs (235 gallons)
Methyl Isobuytl Ketone	108-10-1	4.4	5000	113,305 lbs (15,594 gallons)
Xylene	1330-20-07	4.4	100	2,266 lbs (312 gallons)
Naphthalene	91-20-3	0.3	100	35,052 lbs (4,824 gallons)

SARA TITLE III:

This product contains the following Extremely Hazardous Substance under EPCRA section 302/304 lists.

<u>EHS Component</u>	<u>CAS #</u>	<u>Wt. %</u>	<u>RQ, lbs</u>	<u>TPQ, lbs</u>
None				

Under the provisions of Title III, Sections 311/312 of the Superfund Amendments and Reauthorization Act, this product is classified into the following hazard categories:

Immediate (Acute) Health: X Delayed (Chronic) Health: X Fire: X Pressure: Reactive:

This product contains the following Section 313 Reportable Ingredients:

<u>313 Component</u>	<u>CAS #</u>	<u>Wt. %</u>
Toluene	108-88-3	58.6
Methyl Isobuytl Ketone	108-10-1	4.4
Xylene	1330-20-07	4.4
Naphthalene	91-20-3	0.3

Section XVI - Other Information

Hazardous Material Identification System Category Rating:

Health: 3
Flammability: 3
Reactivity: 0
Personal Protection: C

This rating scheme rates health, fire, and reactivity on a scale of 0 to 4.

0 = No significant hazard 1 = Slight Hazard 2 = Moderate Hazard 3 = High Hazard 4 = Extreme Hazard

Personal Protective Equipment Guide:

A = Safety Glasses	G = Safety Glasses, Gloves, Vapor Respirator
B = Safety Glasses, Gloves	H = Safety Goggles, Gloves, Apron, Vapor Respirator
C = Safety Glasses/Goggles, Gloves, Apron	I = Safety Glasses, Gloves, Apron, Dust & Vapor Respirator
D = Gloves, Apron, Faceshield	J = Splash Goggles, Gloves, Apron, Dust & Vapor Respirator
E = Safety Glasses, Gloves, Dust Respirator	K = Air Line Hood/Mask, Gloves, Full Suit, Boots
F = Safety Glasses, Gloves, Apron, Dust Respirator	X = Ask supervisor for special handling instructions

Component data taken from Sax's Dangerous properties of Industrial Materials, 10th Edition, John Wiley & Sons; Vendor's MSDS Sheets, NIOSH "Pocket Guide to CHEMICAL HAZARDS", U.S. Department of Health and Human Resources, 2007; The Merck Index, 9th Edition, Merck & Co., Inc.; "ACGIH 2004 TLVs and BEIs", American Conference of Governmental Industrial Hygienists; "Quick Selection Guide to CHEMICAL PROTECTIVE CLOTHING", 3RD Edition, John Wiley & Sons, Inc., 1997.

Definitions

ACGIH:	American Conference of Governmental & Industrial Hygienists
ANSI:	American National Standard Institute
BEI:	Biological Exposure Indices - individual tests via urine or exhaled air
CERCLA:	Comprehensive Emergency Response, Compensation, and Liability Act
DOT:	U.S. Department of Transportation
EPA:	U.S. Environmental Protection Agency
HMIS:	Hazardous Materials Identification System
IARC:	International Agency For Research On Cancer
LC ₅₀ :	Lethal Concentration 50: A calculated concentration of the substance which is expected to cause death in 50% of an entire defined experimental animal population.
LCLo:	Lethal Concentration Low: The lowest concentration of a material in air (other than LC ₅₀) that has been reported to have caused death in humans or animals.
LD ₅₀ :	Lethal Dose 50: A calculated concentration of the substance which is expected to cause death in 50% of an entire defined experimental animal population.
LDLo:	Lethal Dose Low: the lowest dose (other than LD ₅₀) of a material introduced by any route, other than inhalation, over any given period of time in one or more divided portions and reported to have caused death in humans or animals.
MSHA:	Mine Safety and Health Administration
N/A:	Not Applicable
N/D:	Not Determined
NE:	Not Established
NFPA:	National Fire Protective Association
NIOSH:	National Institute for Occupational Safety & Health
NSF:	National Sanitation Foundation
NTP:	National Toxicology Program
OSHA:	U.S. Occupational Safety and Health Administration
PEL:	Permissible Exposure Limit
PPE:	Personal Protective Equipment
RCRA:	Resource Conservation and Recovery Act
REL:	Recommended Exposure Limit (NIOSH)
RQ:	Reportable Quantity
SARA:	Superfund Amendments and Reauthorization Act of 1986 Title III
SCBA:	Self Contained Breathing Apparatus
STEL:	Short Term Exposure Limit
TCLo:	Toxic Concentration Low: The lowest concentration of a material in air to which humans or animals have been exposed for any given period of time that has produced any toxic effect in humans or produced a carcinogenic, neoplastigenic, or teratogenic effect in animals or humans.
TLV:	Threshold Limit Value: A recommended upper limit or TWA concentration of a substance to which most workers can be exposed without adverse effects.
TSCA:	Toxic Substances Control Act
TWA:	Time Weighted Average
Wt:	Weight
<:	Less Than
>:	Greater Than

DISCLAIMER OF LIABILITY

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