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Version 2.09

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product identifier****Product name** Four Way Multi-Purpose Penetrant**Recommended use of the chemical  
and restrictions on use****Product code** 80-699**Product Type** Extremely Flammable Aerosol  
**Synonyms** None**Supplier's details****Recommended Use** 4 Way Lubricant.**Uses advised against****Manufactured For:**Kimball Midwest  
4800 Roberts Rd.  
Columbus, OH 43228  
800-233-1294**Emergency telephone number****Chemical Emergency Phone** CHEMTREC : 1-800-424-9300**Number**  
**Company Emergency Phone** 800-233-1294  
**Number**

## 2. HAZARDS IDENTIFICATION

### Classification

Aspiration toxicity	Category 1
Flammable Aerosols	Category 1
Gases under pressure	Compressed Gas

### GHS Label elements, including precautionary statements

#### Emergency Overview

#### DANGER

#### Hazard Statements

May be fatal if swallowed and enters airways.

Extremely Flammable Aerosol

Contains gas under pressure; may explode if heated



**Appearance** Opaque

**Physical state** Aerosol

**Odor** Mild

#### Precautionary Statements - Prevention

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

Do not spray on an open flame or other ignition source.

Pressurized container: Do not pierce or burn, even after use.

#### Precautionary Statements - Response

IF SWALLOWED: Immediately call a POISON CENTER, doctor, physician.

Do NOT induce vomiting.

#### Precautionary Statements - Storage

Store locked up.

Protect from sunlight. Store in a well-ventilated place

Do not expose to temperatures exceeding 122°F (50°C)

#### Precautionary Statements - Disposal

Dispose of contents, container to an approved waste disposal plant.

#### Hazards not otherwise classified (HNOC)

None

#### Other information

0.00000225% of the mixture consists of ingredient(s) of unknown toxicity.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %*
NAPHTHENIC OIL, SEVERLY HYDROT	64742-52-5	30-40
HYDROTREATED LIGHT DISTILLATES	64742-47-8	30-40
1,1-DIFLUOROETHANE	75-37-6	10-20
MINERAL OIL, DEWAXED	64742-65-0	1-10
KEROSENE	8008-20-6	1-10
POLYTETRAFLUOROETHYLENE	9002-84-0	<0.1
NAPHTHALENE	91-20-3	<0.1

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

#### 4. FIRST AID MEASURES

##### First aid measures for different exposure routes

<b>General advice</b>	Avoid contact with eyes, skin, and clothing. Avoid breathing vapors, mist, or gas.
<b>Eye contact</b>	Rinse immediately with plenty of water for 15 minutes and seek medical advice if skin irritation persists.
<b>Skin contact</b>	Rinse immediately with plenty of water for 15 minutes and seek medical advice if skin irritation persists.
<b>Inhalation</b>	Move to fresh air. If not breathing, give artificial respiration. If breathing has stopped, contact emergency medical services immediately.
<b>Ingestion</b>	Do NOT induce vomiting. Call a physician immediately. Never give anything by mouth to an unconscious person. Risk of product entering the lungs on vomiting after ingestion.

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

**Main Symptoms** May cause eye, skin, and respiratory irritation. Harmful if swallowed and enters airways.

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

**Notes to physician** Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

##### Suitable Extinguishing Media

Water fog. Dry chemical. Carbon dioxide (CO<sub>2</sub>). Cool containers / tanks with water spray.

**Unsuitable Extinguishing Media** Do not use a solid water stream as it may scatter and spread fire.

##### Specific hazards arising from the chemical

Extremely Flammable / Flammable. Keep product and empty container away from heat and sources of ignition.

##### Explosion Data

**Sensitivity to Mechanical Impact** none.

**Sensitivity to Static Discharge** Yes.

##### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Use shielding to protect fire-fighters from bursting containers.

#### 6. ACCIDENTAL RELEASE MEASURES

##### Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	Use with adequate ventilation to keep the exposure levels below the OELS.
<b><u>Environmental precautions</u></b>	
<b>Environmental precautions</b>	Vapors can accumulate in low areas. Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Prevent product from entering drains. Report spills as required by local and federal regulations.
<b><u>Methods and materials for containment and cleaning up</u></b>	
<b>Methods for Containment</b>	Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers Prevent further leakage or spillage if safe to do so.
<b>Methods for cleaning up</b>	Soak up with inert absorbent material. Contain liquid and collect with an inter, non-combustible material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly . After cleaning, flush away traces with water. Prevent product from entering drains. Take precautionary measures against static discharges.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

<b>Advice on safe handling</b>	Avoid contact with eyes. Avoid breathing vapors or mists. Contents under pressure. Do not puncture or incinerate cans. Do not stick pin or any other sharp object into opening on top of can. Avoid skin contact. Use with adequate ventilation. Keep container away from heat, flames, and all other sources of ignition. Keep can away from all sources of electricity such as electric motors and batteries. Do not spray on hot surfaces.
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### Conditions for safe storage, including any incompatibilities

<b>Technical measures/Storage conditions</b>	Keep containers tightly closed in a dry and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition .Keep in properly labeled containers. Keep out of the reach of children. Store locked up.
<b>Incompatible products</b>	Strong acids, alkalis, oxidizing agents.
<b>Aerosol Level</b>	3

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
HYDROTREATED LIGHT DISTILLATES 64742-47-8	TWA: 200 PPM 8 hours	-	-
1,1-DIFLUOROETHANE 75-37-6	TWA 1000 PPM 8 hours	-	-
MINERAL OIL, DEWAXED 64742-65-0	ACGIH TLV: 5 mg/m <sup>3</sup> (oil mist)	OSHA PEL: 5 mg/m <sup>3</sup> (oil mist)	-
KEROSENE 8008-20-6	TWA: 200 mg/m <sup>3</sup> total hydrocarbon vapor application restricted to conditions in which there are negligible aerosol exposures Skin - potential significant contribution to overall exposure by the cutaneous route	-	TWA: 100 mg/m <sup>3</sup>
2-BUTOXYETHANOL 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m <sup>3</sup> (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m <sup>3</sup> (vacated) S* S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m <sup>3</sup>

NAPHTHALENE 91-20-3	TWA: 10 ppm Skin - potential significant contribution to overall exposure by the cutaneous route	TWA: 10 ppm TWA: 50 mg/m <sup>3</sup> (vacated) TWA: 10 ppm (vacated) TWA: 50 mg/m <sup>3</sup> (vacated) STEL: 15 ppm (vacated) STEL: 75 mg/m <sup>3</sup>	IDLH: 250 ppm TWA: 10 ppm TWA: 50 mg/m <sup>3</sup> STEL: 15 ppm STEL: 75 mg/m <sup>3</sup>
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ACGIH: (American Conference of Governmental Industrial Hygienists)

OSHA: (Occupational Safety & Health Administration)

NIOSH IDLH: Immediately Dangerous to Life or Health

**Other Exposure Guidelines** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

### Exposure controls

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems.

### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Tightly fitting safety goggles. Safety glasses with side-shields.

**Skin and body protection** Wear protective gloves and additional protective clothing as necessary to prevent exposures.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene measures** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and chemical properties

<b>Physical state</b>	Aerosol	<b>Odor</b>	Mild
<b>Appearance</b>	Opaque	<b>Odor Threshold</b>	
<b>Color</b>	Dark Amber		

<u>Property</u>	<u>Values</u>	<u>Remarks • Methods</u>
pH	No information available	
Melting/freezing point	No information available	
Boiling point/boiling range		
Flash Point	-50 °C / -58 °F	Based on propellant
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limits in Air		
upper flammability limit		
lower flammability limit		
Vapor pressure		
Vapor density		
Specific Gravity	0.864	
Water solubility	Practically insoluble	
Partition coefficient: n-octanol/water		
Autoignition temperature	No information available	Not applicable
Decomposition temperature		
Viscosity	No information available	
Explosive properties		

### Other information

VOC Content(%) 4.57

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

None under normal processing.

### Conditions to Avoid

Extremes of temperature and direct sunlight.

### Incompatible Materials

Strong acids, alkalis, oxidizing agents.

### Hazardous Decomposition Products

Carbon oxides , Hydrocarbons, Fumes.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

<b>Inhalation</b>	Avoid inhaling vapors or mists. Harmful if inhaled. May cause irritation to respiratory system.
<b>Eye contact</b>	May cause eye irritation.
<b>Skin contact</b>	May cause irritation to skin .
<b>Ingestion</b>	Harmful and may be fatal if swallowed and enters airways.

#### Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
NAPHTHENIC OIL, SEVERLY HYDROT 64742-52-5	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	-
HYDROTREATED LIGHT DISTILLATES 64742-47-8	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 5.2 mg/L ( Rat ) 4 h
MINERAL OIL, DEWAXED 64742-65-0	-	-	> 2400 mg/m <sup>3</sup> ( Rat ) 4 h
KEROSENE 8008-20-6	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 5.28 mg/L ( Rat ) 4 h
NAPHTHALENE 91-20-3	= 1110 mg/kg ( Rat )	= 1120 mg/kg ( Rabbit )	> 340 mg/m <sup>3</sup> ( Rat ) 1 h

### Information on toxicological effects

**Symptoms** May cause eye, skin, and respiratory irritation. Harmful if swallowed and enters airways.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Skin corrosion/irritation</b>	May cause skin irritation.
<b>Eye damage/irritation</b>	May cause eye irritation.
<b>Irritation</b>	May cause eye, skin, or respiratory irritation.
<b>Sensitization</b>	No information available.

**Germ cell mutagenicity** Not a germ cell mutagen.  
**Carcinogenicity** The table below indicates whether each agency has evaluated a listed ingredient as a carcinogen.  
 Naphthalene is in the product at <0.1% reportable levels.

Chemical Name	ACGIH	IARC	NTP	OSHA
POLYTETRAFLUOROETHYLENE 9002-84-0	-	Group 3	-	-
NAPHTHALENE 91-20-3	A3	Group 2B	Reasonably Anticipated	X

ACGIH: (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC: (International Agency for Research on Cancer)

Group 3 - Not Classifiable as to Carcinogenicity in Humans

**Reproductive toxicity** The ingredients are not reproductive hazards.  
**Specific target organ systemic toxicity (single exposure)** No information available.  
**Specific target organ systemic toxicity (repeated exposure)** No information available.  
**Chronic toxicity** Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Chronic hydrocarbon abuse has been associated with irregular heart rhythms and potential cardiac arrest.  
**Target Organ Effects** Skin, Eyes, Respiratory System, and Central Nervous System.  
**Aspiration hazard** May be fatal if swallowed and enters airways.

#### Numerical measures of toxicity - Product Information

**Unknown Acute Toxicity** 0.00000225% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document .

**ATEmix (oral)** 6776 mg/kg  
**ATEmix (dermal)** 37506 mg/kg  
**ATEmix (inhalation-vapor)** 9.8 mg/l

## 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
NAPHTHENIC OIL, SEVERLY HYDROT 64742-52-5	-	5000 mg/L LC50 Oncorhynchus mykiss 96h	-	1000 mg/L EC50 Daphnia magna 48h
HYDROTREATED LIGHT DISTILLATES 64742-47-8	-	45 mg/L LC50 Pimephales promelas 96h flow-through 2.2 mg/L LC50 Lepomis macrochirus 96h static 2.4 mg/L LC50 Oncorhynchus mykiss 96h static	-	-
MINERAL OIL, DEWAXED 64742-65-0	-	5000 mg/L LC50 Oncorhynchus mykiss 96h	-	1000 mg/L EC50 Daphnia magna 48h
NAPHTHALENE 91-20-3	-	5.74 - 6.44 mg/L LC50 Pimephales promelas 96h flow-through 1.6 mg/L LC50 Oncorhynchus mykiss 96h flow-through 0.91 - 2.82 mg/L LC50 Oncorhynchus mykiss 96h static 1.99 mg/L LC50 Pimephales promelas 96h static 31.0265 mg/L LC50 Lepomis macrochirus 96h static	-	2.16 mg/L LC50 Daphnia magna 48h 1.96 mg/L EC50 Daphnia magna 48h Flow through 1.09 - 3.4 mg/L EC50 Daphnia magna 48h Static

#### Persistence and degradability

**Bioaccumulation**

Chemical Name	log Pow
NAPHTHALENE 91-20-3	3.6

**Other adverse effects** No information available

### 13. DISPOSAL CONSIDERATIONS

**Waste treatment**

**Waste Disposal Methods** This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261). Dispose of in accordance with federal, state, and local regulations.

**Contaminated packaging** Do not re-use empty containers.

### 14. TRANSPORT INFORMATION

**DOT Ground** CONSUMER COMMODITY ORM-D  
or  
LIMITED QUANTITY

**IATA** UN1950, AEROSOLS, FLAMMABLE, 2.1, LTD.QTY.

**IMDG** UN1950, AEROSOLS, 2.1, LTD. QTY.

### 15. REGULATORY INFORMATION

**International Inventories**

Chemical Name	TSCA	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AICS
NAPHTHENIC OIL, SEVERLY HYDROT	X	X	X	Not listed	X	X	X	X
HYDROTREATED LIGHT DISTILLATES	X	X	X	Not listed	X	X	X	X
1,1-DIFLUOROETHA NE	X	X	X	X	X	X	X	X
MINERAL OIL, DEWAXED	X	X	X	X	X	X	X	X
KEROSENE	X	X	X	x	X	X	X	X
POLYTETRAFLUORO ETHYLENE	X	X	Not listed	X	X	X	X	X
NAPHTHALENE	X	X	X	X	X	X	X	X

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**CHINA** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances



AICS - Australian Inventory of Chemical Substances

**U.S. Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

Acute Health Hazard	Yes
Chronic Health Star Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	Yes
Reactive Hazard	No

**Clean Water Act**

This product does contain the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
NAPHTHALENE 91-20-3	100 lb	X	X	X

**CERCLA**

This material, as supplied, does contain substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
NAPHTHALENE 91-20-3	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ

**U.S. State Regulations****California Proposition 65**

This product contains the following Proposition 65 chemicals:



This product can expose you to chemicals including those listed below, which is [are] known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

Chemical Name	California Prop. 65
NAPHTHALENE - 91-20-3	Cancer/ <0.1%

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
1,1-DIFLUOROETHANE 75-37-6	X	X	
KEROSENE 8008-20-6	X	X	X
2-BUTOXYETHANOL 111-76-2	X	X	X

ZINC DINONYLNAPHTHALENESULFON A 28016-00-4	X		X
POLYTETRAFLUOROETHYLENE 9002-84-0			X
NAPHTHALENE 91-20-3	X	X	X

EPA Pesticide Registration Number Not applicable

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

## 16. OTHER INFORMATION

**NFPA** Health Hazard 2 Flammability 4 Instability 0 Physical and chemical hazards -

**HMIS** Health Hazard 2\* Flammability 4 Physical Hazard 1 Personal protection B  
*Chronic Hazard Star Legend Chronic Health Star Hazard Repeated or prolonged exposure may cause central nervous system damage*

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Revision Note  
 (M)SDS sections updated 2 3 9 11 15

**Disclaimer**

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End of Safety Data Sheet