

Revision Date: 01/14/2010

Print Date: 1/12/2012 MSDS Number: R0340954

Version: 4.0

Pyroil™ REGULAR STARTING FLUID PYSFR11

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Ashland Regulatory Information Number 1-800-325-3751 P.O. Box 2219 Telephone 614-790-3333

Columbus, OH 43216 Emergency telephone 1-800-ASHLAND (1-800-274-

5263)

Product name Pyroil™ REGULAR STARTING FLUID

Product code PYSFR11
Product Use Description No data

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance: aerosol

WARNING! EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. CONTENTS UNDER PRESSURE. MAY AFFECT THE CENTRAL NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. CAUSES EYE IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY THE SKIN AND CAUSE IRRITATION AND BURNS.

Potential Health Effects

Exposure routes

Inhalation, Skin absorption, Skin contact, Eye Contact

Eve contact

Can cause severe eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes. Can injure eye tissue.

Skin contact

May cause mild skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, drying and cracking of skin, and skin burns. Passage of this material into the body through the skin is possible, but it is unlikely that this would result in harmful effects during safe handling and use.



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Ingestion

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. This material can get into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury.

Inhalation

Breathing aerosol and/or mist is possible when material is sprayed. Aerosol and mist may present a greater risk of injury because more material may be present in the air than from vapor alone. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable (see Section 8.).

Aggravated Medical Condition

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material:, Skin, lung (for example, asthma-like conditions)

Symptoms

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:, stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), high blood pressure, effects on heart rate, effects on breathing rate

Target Organs

Exposure to this material (or a component) has been found to cause kidney damage in male rats. The mechanism by which this toxicity occurs is specific to the male rat and the kidney effects are not expected to occur in humans.

Carcinogenicity

This material is not listed as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA).

Reproductive hazard

There are no data available for assessing risk to the fetus from maternal exposure to this material.

3. COMPOSITION/INFORMATION ON INGREDIENTS



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Hazardous Components	CAS-No.	Concentration
SOLVENT NAPHTHA (PETROLEUM), LIGHT	64742-89-8	>=70-<80%
ALIPHATIC		
ETHYL ETHER	60-29-7	>=15-<20%
CARBON DIOXIDE	124-38-9	>=1.5-<5%

4. FIRST AID MEASURES

Eyes

If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.

Skin

Remove contaminated clothing. Flush exposed area with large amounts of water. If skin is damaged, seek immediate medical attention. If skin is not damaged and symptoms persist, seek medical attention. Launder clothing before reuse.

Ingestion

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

Inhalation

If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

Notes to physician

Hazards: Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material.

Treatment: No information available.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water mist, Carbon dioxide (CO2), Dry chemical



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Hazardous combustion products

Aldehydes, carbon dioxide and carbon monoxide, organic compounds, Hydrocarbons

Precautions for fire-fighting

Material is volatile and readily gives off vapors which may travel along the ground or be moved by ventilation and ignited by pilot lights, flames, sparks, heaters, smoking, electric motors, static discharge or other ignition sources at locations near the material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA).

NFPA Flammable and Combustible Liquids Classification

Flammable Liquid Class IA

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

For personal protection see section 8. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks).

Environmental precautions

Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred.

Methods for cleaning up

Absorb liquid on vermiculite, floor absorbent or other absorbent material.

7. HANDLING AND STORAGE

Handling

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. Avoid prolonged or frequently repeated skin contact with this material. Skin contact can be minimized by wearing impervious protective gloves. As with all products of this nature, good personal hygiene is essential. Hands and other exposed areas should be washed thoroughly with soap and water after contact, especially before eating and/or smoking. Regular laundering of contaminated clothing is essential to reduce indirect skin contact with this material. Static ignition hazard can result from handling and use. Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Special precautions may be necessary to dissipate static electricity for non-



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conductive containers. Use proper bonding and grounding during product transfer as described in National Fire Protection Association document NFPA 77. Hydrocarbon solvents are basically non-conductors of electricity and can become electrostatically charged during mixing, filtering or pumping at high flow rates. If this charge reaches a sufficiently high level, sparks can form that may ignite the vapors of flammable liquids.

Storage

Do not store near extreme heat, open flame, or sources of ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

SOLVENT NAPHTHA (PE ALIPHATIC	ETROLEUM), LIGHT	64742-89-8
OSHA Z1	time weighted average	500 ppm
ACGIH	time weighted average	300 ppm
ACGIH	time weighted average	1,370 mg/m3
ETHYL ETHER		60-29-7
ACGIH	time weighted average	400 ppm
ACGIH	Short term exposure limit	500 ppm
OSHA Z1	Permissible exposure	400 ppm
	limit	
OSHA Z1	Permissible exposure	1,200 mg/m3
	limit	
CARBON DIOXIDE		124-38-9
ACGIH	time weighted average	5,000 ppm
ACGIH	Short term exposure limit	30,000 ppm
NIOSH	Recommended exposure	5,000 ppm
	limit (REL):	
NIOSH	Recommended exposure	9,000 mg/m3
	limit (REL):	
NIOSH	Short term exposure limit	30,000 ppm
NIOSH	Short term exposure limit	54,000 mg/m3
OSHA Z1	Permissible exposure	5,000 ppm
	limit	
OSHA Z1	Permissible exposure	9,000 mg/m3
	limit	

General advice

These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect



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exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

Exposure controls

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Eye protection

Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

Skin and body protection

Wear resistant gloves (consult your safety equipment supplier).

Wear normal work clothing including long pants, long-sleeved shirts and foot covering to prevent direct contact of the product with the skin. Launder clothing before reuse. If skin irritation develops, contact your facility health and safety professional or your local safety equipment supplier to determine the proper personal protective equipment for your use.

Respiratory protection

A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be persmissible under certain circumstancs where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical stateaerosolFormaerosolColourNo dataOdourNo data

Boiling point/boiling range 34.60 °C @ 1,013.23 hPa Calculated Phase

Transition Liquid/Gas

pH No data

Flash point -45.00 °C Calculated Flash Point

Evaporation rate No data

Lower explosion limit/Upper explosion limit 1.05 %(V) / 36.5 %(V)



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Vapour pressure 717.261 hPa @ 25 °C Calculated Vapor Pressure

Vapour density No data

Density 0.7114 g/cm3 @ 60.01 °F / 15.56 °C

Solubility No data **Partition coefficient: n-octanol/water** No data

log Pow no data available

Autoignition temperature No data

10. STABILITY AND REACTIVITY

Stability

Stable.

Conditions to avoid

Heat, flames and sparks.

Incompatible products

halogens, Strong oxidizing agents

Hazardous decomposition products

Aldehydes, carbon dioxide and carbon monoxide, organic compounds, Hydrocarbons

Hazardous reactions

Product will not undergo hazardous polymerization.

Thermal decomposition

No data

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

SOLVENT NAPHTHA (PETROLEUM), LIGHT : LD 50 Rat: > 8,000 mg/kg

ALIPHATIC

ETHYL ETHER : LD 50 Rat: 3,230 - 3,920 mg/kg

CARBON DIOXIDE : no data available

Acute inhalation toxicity

SOLVENT NAPHTHA (PETROLEUM), LIGHT : LC 50

ALIPHATIC Rat: 3400 ppm, 4 h



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ETHYL ETHER : LC 50

Rat: 32,000 mg/l, 4 h

CARBON DIOXIDE : no data available

Acute dermal toxicity

SOLVENT NAPHTHA (PETROLEUM), LIGHT : LD 50 Rat:

> 4,000 mg/kg

ETHYL ETHER : no data available CARBON DIOXIDE : no data available

12. ECOLOGICAL INFORMATION

Biodegradability

SOLVENT NAPHTHA (PETROLEUM), LIGHT : no data available

ALIPHATIC

ETHYL ETHER : no data available CARBON DIOXIDE : no data available

Bioaccumulation

SOLVENT NAPHTHA (PETROLEUM), LIGHT : no data available

ALIPHATIC

ETHYL ETHER : no data available CARBON DIOXIDE : no data available

Ecotoxicity effects

Toxicity to fish

SOLVENT NAPHTHA (PETROLEUM), LIGHT : no data available

ALIPHATIC

ETHYL ETHER : no data available CARBON DIOXIDE : no data available

Toxicity to daphnia and other aquatic invertebrates.

SOLVENT NAPHTHA (PETROLEUM), LIGHT : no data available

ALIPHATIC

ETHYL ETHER : no data available CARBON DIOXIDE : no data available

Toxicity to algae

SOLVENT NAPHTHA (PETROLEUM), LIGHT : no data available

ALIPHATIC

ETHYL ETHER : no data available CARBON DIOXIDE : no data available

Toxicity to bacteria



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SOLVENT NAPHTHA (PETROLEUM), LIGHT

: no data available

ALIPHATIC

ETHYL ETHER : no data available CARBON DIOXIDE : no data available

Biochemical Oxygen Demand (BOD)

SOLVENT NAPHTHA (PETROLEUM), LIGHT : no data available

ALIPHATIC

ETHYL ETHER : no data available CARBON DIOXIDE : no data available

Chemical Oxygen Demand (COD)

SOLVENT NAPHTHA (PETROLEUM), LIGHT : no data available

ALIPHATIC

ETHYL ETHER : no data available CARBON DIOXIDE : no data available

Additional ecological information

SOLVENT NAPHTHA (PETROLEUM), LIGHT : no data available

ALIPHATIC

ETHYL ETHER : no data available CARBON DIOXIDE : no data available

13. DISPOSAL CONSIDERATIONS

Waste disposal methods

Dispose of in accordance with all applicable local, state and federal regulations. For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Ashland Distribution's Environmental Services Group at 800-637-7922.

14. TRANSPORT INFORMATION

REGULATION

ID	PROPER SHIPPING NAME	*HAZARD	SUBSIDIARY	PACKING	MARINE
NUMBER		CLASS	HAZARDS	GROUP	POLLUTANT
					/ LTD. QTY.
H.C. DOTE. DO	A.D.	-			

U.S. DOT - ROAD

	CISI BOT HOTE		
Ī	ORM-D, CONSUMER	ORM	
١	COMMODITY		

U.S. DOT - RAIL



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		ORM-D, CONSUMER COMMODITY	ORM	
U .S. D	OT - IN	LAND WATERWAYS		
		ORM-D, CONSUMER COMMODITY	ORM	
TRAN	SPORT	CANADA - ROAD		
UN	1950	AEROSOLS	2.1	
	CDODT	CANADA - RAIL		
TRAN	SPUKI			
TRAN UN	1950	AEROSOLS	2.1	
UN TRAN	1950			
UN TRAN UN	1950 (SPORT 1950	AEROSOLS CANADA - INLAND WATERY	VAYS 2.1	
UN TRAN UN	1950 (SPORT 1950	AEROSOLS CANADA - INLAND WATERY AEROSOLS	VAYS 2.1	LIMITED QUANTITY
TRAN UN Intel UN	1950 SPORT 1950 RNATIO 1950	AEROSOLS CANADA - INLAND WATERY AEROSOLS ONAL MARITIME DANGEROI	VAYS 2.1 US GOODS 2.1	

MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

2.1

*****	<u> </u>				
UN	1950	AEROSOLES	2		

^{*}ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

starting fluid)

Aerosols, flammable (engine

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

15. REGULATORY INFORMATION

California Prop. 65

1950

UN



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WARNING! This product contains a chemical known in the State **BENZENE**

of California to cause cancer.

WARNING! This product contains a chemical known in the State **BENZENE** of California to cause birth defects or other reproductive harm. **TOLUENE**

SARA Hazard Classification

Acute Health Hazard

Fire Hazard

Sudden Release of Pressure Hazard

New Jersey RTK Label Information

n-HEPTANE	142-82-5
ETHYL ETHER	60-29-7
CARBON DIOXIDE	124-38-9

Pennsylvania RTK Label Information

n-HEPTANE	142-82-5
ETHYL ETHER	60-29-7
CARBON DIOXIDE	124-38-9
BENZENE	71-43-2

Notification status

1 (Othication Status	
EU. EINECS	y (positive listing)
US. Toxic Substances Control Act	y (positive listing)
Australia. Industrial Chemical (Notification and Assessment)	y (positive listing)
Act	
Canada. Canadian Environmental Protection Act (CEPA).	y (positive listing)
Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 133)	
Japan. Kashin-Hou Law List	n (Negative listing)
Korea. Toxic Chemical Control Law (TCCL) List	y (positive listing)
Philippines. The Toxic Substances and Hazardous and Nuclear	y (positive listing)
Waste Control Act	
China. Inventory of Existing Chemical Substances	y (positive listing)
New Zealand. Inventory of Chemicals (NZIoC), as published	y (positive listing)
by ERMA New Zealand	

Reportable quantity - Product

US. EPA CERCLA Hazardous Substances (40 CFR 302) 511 lbs

Reportable quantity-Components

ETHYL ETHER 60-29-7 100 lbs



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	HMIS	NFPA
Health	2	1
Flammability	4	4
Physical hazards	0	
Instability		0
Specific Hazard		

16. OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).