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29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

: Pyroil™ Trade name

STARTING FLUID

Recommended use of the chemical and restrictions on use

Details of the supplier of the safety data **Emergency telephone number** sheet

Ashland

P.O. Box 2219 Columbus, OH 43216

United States of America

EHS Customer Requests@ashland.com

1-800-ASHLAND (1-800-274-5263)

Regulatory Information Number

1-800-325-3751

Product Information

614-790-3333

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable aerosols : Category 1

Carcinogenicity : Category 2

Reproductive toxicity : Category 2

Specific target organ systemic toxicity - single

exposure

: Category 3 (Central nervous system)

Aspiration hazard : Category 1

GHS Label element

Hazard pictograms





Signal Word : Danger

Hazard Statements Extremely flammable aerosol.

May be fatal if swallowed and enters airways.

May cause drowsiness or dizziness. Suspected of causing cancer.

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Suspected of damaging fertility or the unborn child.

Precautionary Statements

: Prevention:

Obtain special instructions before use.

Do not handle until all safety precautions have been read and

understood.

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.

Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. Use only outdoors or in a well-ventilated area.

Wear protective gloves/ protective clothing/ eye protection/ face

protection.

Response:

IF SWALLOWED: Immediately call a POISON CENTER or

doctor/ physician.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

IF exposed or concerned: Get medical advice/ attention.

Do NOT induce vomiting.

Storage:

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Protect from sunlight. Do not expose to temperatures exceeding

50 °C/ 122 °F.

Disposal:

Dispose of contents/ container to an approved waste disposal

plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Defatter

Hazardous components

Chemical Name	CAS-No.	Classification	Concentration (%)
SOLVENT NAPHTHA (PETROLEUM), LIGHT	64742-89-8	Flam. Liq. 2; H225	77.53
ALIPHATIC		STOT SE 3; H336	
		Asp. Tox. 1; H304	
		Aquatic Acute 2; H401	
		Aquatic Chronic 2;	

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		H411	
ETHYL ETHER	60-29-7	Flam. Liq. 1; H224	19.55
		Acute Tox. 4; H302	
		STOT SE 3; H336	
n-HEPTANE	142-82-5	Flam. Liq. 2; H225	3.10
		Skin Irrit. 2; H315	
		STOT SE 3; H336	
		Asp. Tox. 1; H304	
CARBON DIOXIDE	124-38-9	Press. Gas Liquefied gas; H280	2.01
ETHANOL	64-17-5	Flam. Liq. 2; H225	1.17
		Eye Irrit. 2A; H319 STOT SE 3; H336	
ETHYL CHLORIDE	75-00-3	Flam. Gas 1; H220	0.29
		Carc. 2; H351	
TOLUENE	108-88-3	Flam. Liq. 2; H225	0.13
		Skin Irrit. 2; H315	
		Eye Irrit. 2A; H319	
		Repr. 2; H361	
		STOT SE 3; H336	
		STOT RE 2; H373	

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Asp. Tox. 1; H304	

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Call a POISON CENTRE or doctor/physician if exposed or

you feel unwell.

Show this safety data sheet to the doctor in attendance. Symptoms of poisoning may appear several hours later.

Do not leave the victim unattended.

If inhaled : Move to fresh air.

If unconscious place in recovery position and seek medical

advice.

Consult a physician after significant exposure.

In case of skin contact : Remove contaminated clothing. If irritation develops, get

medical attention.

If on skin, rinse well with water.

Wash contaminated clothing before re-use.

In case of eye contact : Flush eyes with water as a precaution.

Remove contact lenses. Protect unharmed eye.

If eye irritation persists, consult a specialist.

If swallowed : Obtain medical attention.

Do NOT induce vomiting.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed

: 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.

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)

Cough

loss of appetite confusion

irregular heartbeat respiratory failure

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May be fatal if swallowed and enters airways.

May cause drowsiness or dizziness. Suspected of causing cancer.

Suspected of damaging fertility or the unborn child.

Notes to physician : No hazards which require special first aid measures.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Water spray Foam

Alcohol-resistant foam Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during

firefighting

: Never use welding or cutting torch on or near drum (even

empty) because product (even just residue) can ignite

explosively.

Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: Aldehydes

carbon dioxide and carbon monoxide

organic compounds Hydrocarbons formaldehyde-like

Specific extinguishing

methods

:

Product is compatible with standard fire-fighting agents.

Further information : Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations. Use a water spray to cool fully closed containers.

Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and

: Evacuate personnel to safe areas. Remove all sources of ignition.

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Ensure adequate ventilation.

Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Persons not wearing protective equipment should be excluded

from area of spill until clean-up has been completed.

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up

: Suppress (knock down) gases/vapours/mists with a water

spray jet.

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local /

national regulations (see section 13).

Other information : Comply with all applicable federal, state, and local regulations.

Suppress (knock down) gases/vapours/mists with a water

spray jet.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Open drum carefully as content may be under pressure.

Provide sufficient air exchange and/or exhaust in work rooms.

Do not breathe vapours/dust.

Do not smoke.

Container hazardous when empty.

Take precautionary measures against static discharges. Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes.

Smoking, eating and drinking should be prohibited in the

application area.

For personal protection see section 8.

Dispose of rinse water in accordance with local and national

regulations.

Container may be opened only under exhaust ventilation

hood.

Conditions for safe storage

BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or

red-hot objects.

Keep container tightly closed in a dry and well-ventilated

place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

Observe label precautions.

No smoking.

Electrical installations / working materials must comply with

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the technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type	Control	Basis
		(Form of	parameters / Permissible	
	exposure)		concentration	
TOLUENE	108-88-3	TWA	20 ppm	ACGIH
TOLOLINE	100-00-3	REL	100 ppm	NIOSH/GUID
		IXEE	375 mg/m3	E
		STEL	150 ppm	NIOSH/GUID
		0.22	560 mg/m3	E
		TWA	200 ppm	OSHA/Z2
		Ceiling	300 ppm	OSHA/Z2
		MAX. CONC	500 ppm	OSHA/Z2
SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC	64742-89-8	TWA	500 ppm	OSHA_TRA NS
		TWA	300 ppm	ACGIH
		TWA	2,000 mg/m3	OSHA_TRA NS
		TWA	1,370 mg/m3	ACGIH
ETHYL ETHER	60-29-7	TWA	400 ppm	ACGIH
		STEL	500 ppm	ACGIH
		PEL	400 ppm	OSHA_TRA
			1,200 mg/m3	NS
		TWA	400 ppm	TN OEL
		STEL	1,200 mg/m3	TN OEL
			500 ppm 1,500 mg/m3	
n-HEPTANE	142-82-5	REL	85 ppm	NIOSH/GUID
			350 mg/m3	E
		Ceil_Time	440 ppm	NIOSH/GUID
			1,800 mg/m3	E
		PEL	500 ppm 2,000 mg/m3	OSHA_TRA NS
		TWA	400 ppm	ACGIH
		STEL	500 ppm	ACGIH
CARBON DIOXIDE	124-38-9	TWA	5,000 ppm	ACGIH
		STEL	30,000 ppm	ACGIH
		REL	5,000 ppm	NIOSH/GUID
			9,000 mg/m3	E
		STEL	30,000 ppm	NIOSH/GUID
			54,000 mg/m3	E
		PEL	5,000 ppm 9,000 mg/m3	OSHA_TRA NS
ETHANOL	64-17-5	REL	1,000 ppm	NIOSH/GUID

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	1		1,900 mg/m3	E
		PEL	1,000 ppm 1,900 mg/m3	OSHA_TRA NS
		STEL	1,000 ppm	ACGIH
		TWA	1,000 ppm 1,900 mg/m3	Z1A
ETHYL CHLORIDE	75-00-3	TWA	100 ppm	ACGIH
		PEL	1,000 ppm 2,600 mg/m3	OSHA_TRA NS
		TWA	1,000 ppm 2,600 mg/m3	Z1A

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Samplin g time	Permissible concentratio n	Basis
TOLUENE	108-88-3	o-Cresol, with hydrolysis	Creatinine in urine	Samplin g time: End of shift.	0.3 mg/g	
Remarks:	Background	d				
		toluene	Urine	Samplin g time: End of shift.	0.03 mg/l	
		toluene	Blood	Samplin g time: Prior to last shift of work week.	0.02 mg/l	

Engineering measures

: 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.

Personal protective equipment

Respiratory protection

: In the case of vapour formation use a respirator with an approved filter.

In the case of dust or aerosol formation use respirator with an approved filter.

A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances 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.

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Hand protection

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Not required under normal conditions of use. Wear splash-

proof safety goggles if material could be misted or splashed

into eyes.

Skin and body protection : Wear as appropriate:

impervious clothing

Safety shoes

Flame-resistant clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Wear resistant gloves (consult your safety equipment

supplier).

Hygiene measures : Wash hands before breaks and at the end of workday.

When using do not eat or drink. When using do not smoke.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : aerosol

Odour : No data available

Odour Threshold : No data available

pH : No data available

: No data available

Boiling point/boiling range : 94.3 °F / 34.6 °C

(1,013.232 hPa)

Calculated Phase Transition Liquid/Gas

Flash point : -49 °F / -45 °C

Calculated Flash Point

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : 36.5 %(V)

Calculated Explosive Limit

Lower explosion limit : 1.05 %(V)

Calculated Explosive Limit

Vapour pressure : 717.2616 hPa (25 °C)

Calculated Vapor Pressure

Relative vapour density : No data available

Relative density : No data available

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Density : 0.7114 g/cm3 (15.56 °C)

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

Thermal decomposition : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Oxidizing properties : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous

reactions

: Vapours may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

excessive heat

Incompatible materials : Acids

Alkali metals Ammonia Bases halogens

inorganic materials Oxidizing agents

sodium

Sulphur compounds

Hazardous decomposition

products Aldehydes

carbon dioxide and carbon monoxide

formaldehyde-like Hydrocarbons organic compounds

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SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of : Inhalation

exposure

InhalationSkin contact

Eye Contact Ingestion

Acute toxicity

Not classified based on available information.

Components:

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

Acute inhalation toxicity : LC 50 (Rat): 3400 ppm

Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : LD 50 (Rat): > 4,000 mg/kg

ETHYL ETHER:

Acute oral toxicity : LD50 (Rat): 1,200 - 1,700 mg/kg

Acute inhalation toxicity : LC 50 (Rat): 32,000 mg/l

Exposure time: 4 h

n-HEPTANE:

Acute oral toxicity : LD 50 (Rat): Expected > 5,000 mg/kg

Remarks: Information given is based on data obtained from

similar substances.

Acute inhalation toxicity : LC 50 (Rat, male and female): > 29.29 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Method: OECD Test Guideline 403

Assessment: No adverse effect has been observed in acute

inhalation toxicity tests.

Acute dermal toxicity : LD 50 (Rabbit): Expected > 2,000 mg/kg

Assessment: Not classified as acutely toxic by dermal

absorption under GHS.

Remarks: Information given is based on data obtained from

similar substances.

ETHANOL:

Acute oral toxicity : LD 50 (Rat): 7,060 mg/kg

Acute inhalation toxicity : LC 50 (Rat): 117 - 125 mg/l

Exposure time: 4 h

LC 50 (Mouse): 39 mg/l Exposure time: 4 h

Acute dermal toxicity : LD Lo (Rabbit): 20 g/kg

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ETHYL CHLORIDE:

Acute inhalation toxicity : LC 50 (Rat): > 19000 ppm

Exposure time: 4 h
Test atmosphere: vapour

Method: OECD Test Guideline 403

TOLUENE:

Acute oral toxicity : LD 50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC 50 (Rat): 8000 ppm

Exposure time: 4 h

Acute dermal toxicity : LD 50 (Rabbit): 12,124 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Product:

Result: Repeated exposure may cause skin dryness or cracking.

Components:

SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC:

Result: Mildly irritating to skin

ETHYL ETHER:

Result: Irritating to skin

n-HEPTANE:

Result: Irritating to skin

CARBON DIOXIDE:

Result: Not irritating to skin

ETHANOL:

Result: Slightly irritating to skin

ETHYL CHLORIDE:

Result: Mildly irritating to skin

TOLUENE:

Result: Irritating to skin

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin.

Components:

SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC:

Result: Mildly irritating to eyes

ETHYL ETHER:

Result: Severely irritating to eyes

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n-HEPTANE:

Result: Mildly irritating to eyes

CARBON DIOXIDE:

Result: Not irritating to eyes

ETHANOL:

Result: Irritating to eyes

ETHYL CHLORIDE:

Result: Mildly irritating to eyes

TOLUENE:

Result: Irritating to eyes

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information. Respiratory sensitisation: Not classified based on available information.

Components: n-HEPTANE:

Test Type: Maximisation Test (GPMT)

Species: Guinea pig

Result: Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

Not classified based on available information.

Components: n-HEPTANE:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro

Test species: rat hepatocytes Method: OECD Test Guideline 473

Result: negative

: Test Type: Ames test

Method: OECD Test Guideline 471

Result: negative

Carcinogenicity

Suspected of causing cancer.

Components:

ETHYL CHLORIDE:

Carcinogenicity - : Limited evidence of carcinogenicity in animal studies

Assessment

Reproductive toxicity

Suspected of damaging fertility or the unborn child.

Components: TOLUENE:

Reproductive toxicity - : Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

STOT - single exposure

May cause drowsiness or dizziness.

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Components:

ETHYL ETHER:

Assessment: May cause drowsiness or dizziness.

n-HEPTANE:

Assessment: May cause drowsiness or dizziness.

ETHANOL:

Assessment: May cause drowsiness or dizziness.

TOLUENE:

Exposure routes: Inhalation

Target Organs: Central nervous system

Assessment: May cause drowsiness or dizziness.

STOT - repeated exposure

Not classified based on available information.

Components:

TOLUENE:

Exposure routes: Inhalation

Target Organs: Neurologic: other (neuropsychological effects, auditory dysfunction and effects

on colour vision)

Assessment: May cause damage to organs through prolonged or repeated exposure.

Aspiration toxicity

May be fatal if swallowed and enters airways.

Product:

May be fatal if swallowed and enters airways.

Components:

SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC:

May be fatal if swallowed and enters airways.

n-HEPTANE:

May be fatal if swallowed and enters airways.

TOLUENE:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects., Solvents may degrease the skin.

Components:

ETHYL CHLORIDE: Remarks: Liver

Remarks: Central nervous system

Carcinogenicity:

IARC No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

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human carcinogen by IARC.

OSHA No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

n-HEPTANE:

Toxicity to daphnia and other

aquatic invertebrates

: EC 50 (Water flea (Daphnia magna)): 1.5 mg/l

Exposure time: 48 h Test Type: static test

LC 50 (Mysidopsis bahia (opossum shrimp)): 0.1 mg/l

Exposure time: 96 h Test Type: semi-static test

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOELR (Water flea (Daphnia magna)): 1 mg/l

Exposure time: 21 d Test Type: static test Test substance: WAF

Method: OECD Test Guideline 211

Remarks: Information given is based on data obtained from

similar substances.

Ecotoxicology Assessment

Acute aquatic toxicity

: Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

ETHANOL:

Toxicity to fish : LC 50 (Rainbow trout, donaldson trout (Oncorhynchus

mykiss)): 12,000 - 16,000 mg/l

Exposure time: 96 h Test Type: static test

Toxicity to daphnia and other

aquatic invertebrates

: EC 50 (Water flea (Daphnia magna)): > 10,000 mg/l

Exposure time: 48 h Test Type: static test

ETHYL CHLORIDE:

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Water flea (Daphnia magna)): 58 mg/l

Exposure time: 48 h Test Type: static test

Method: Directive 67/548/EEC, Annex V, C.2.

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Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 118 mg/l

End point: Growth inhibition

Exposure time: 72 h Test Type: static test

Method: Directive 67/548/EEC, Annex V, C.3.

TOLUENE:

Toxicity to fish : LC50 (Oncorhynchus kisutch (coho salmon)): 5.5 mg/l

Exposure time: 96 h

Test Type: flow-through test

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Water flea (Ceriodaphnia dubia)): 3.78 mg/l

Exposure time: 48 h Remarks: Mortality

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (microalgae)): > 433

mg/l

End point: Growth inhibition Exposure time: 96 h

NOEC (Scenedesmus quadricauda (Green algae)): > 400

mg/l

End point: Growth inhibition

Exposure time: 7 d

Toxicity to fish (Chronic

toxicity)

: NOEC (Oncorhynchus mykiss (rainbow trout)): 1.39 mg/l

Exposure time: 40 d

Test Type: flow-through test

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEC (Water flea (Ceriodaphnia dubia)): 0.74 mg/l

Exposure time: 7 d

Persistence and degradability

n-HEPTANE:

Biodegradability : Result: Readily biodegradable

ETHYL CHLORIDE:

Biodegradability : Inoculum: activated sludge

Result: Not readily biodegradable.

Biodegradation: 0 % Exposure time: 28 d

Method: Directive 67/548/EEC Annex V, C.4.E.

TOLUENE:

Biodegradability : Result: Readily biodegradable

Bioaccumulative potential

ETHYL ETHER:

Partition coefficient: n-

octanol/water

: log Pow: 0.89

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n-HEPTANE:

Partition coefficient: n-

octanol/water

: log Pow: 4.66

ETHANOL:

Partition coefficient: n-

octanol/water

: log Pow: -0.31

ETHYL CHLORIDE:

Partition coefficient: n-

octanol/water

: log Pow: 1.43

TOLUENE:

Bioaccumulation : Species: Ide, silver or golden orfe (Leuciscus idus)

Bioconcentration factor (BCF): 94

Exposure time: 3 d Concentration: 0.05 mg/l Method: Not reported

Partition coefficient: n-

octanol/water

: log Pow: 2.73

Mobility in soil

No data available

Other adverse effects

No data available

Product:

Additional ecological

information

: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to aquatic life with

long lasting effects.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

General advice : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company.

Dispose of in accordance with all applicable local, state and

federal regulations.

Contaminated packaging : Empty remaining contents.

Empty containers should be taken to an approved waste

handling site for recycling or disposal. Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty drum.

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SECTION 14. TRANSPORT INFORMATION

International transport regulations

REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT /
					LTD. QTY.

MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

UN	1950	Aerosols	2	LIMITED QUANTITY

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

UN	1950	Aerosols	2.1	LIMITED QUANTITY

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

UN	1950	Aerosols	2.1	LIMITED
				QUANTITY

INTERNATIONAL MARITIME DANGEROUS GOODS

UN	1950	AEROSOLS	2.1	LIMITED QUANTITY

TRANSPORT CANADA - INLAND WATERWAYS

UN	1950	AEROSOLS	2.1	LIMITED
				QUANTITY

TRANSPORT CANADA - RAIL

UN	1950	AEROSOLS	2.1	LIMITED
				QUANTITY

TRANSPORT CANADA - ROAD

UN	1950	AEROSOLS	2.1	MARINE
				POLLUTANT:(
				ALIPHATIC
				PETROLEUM
				NAPHTHA)LIM
				ITED
				QUANTITY

U.S. DOT - INLAND WATERWAYS

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UN	1950	Aerosols, flammable (engine starting fluid)	2.1

U.S. DOT - RAIL

UN	1950	Aerosols, flammable (engine starting fluid)	2.1

U.S. DOT - ROAD

UN	1950	AEROSOLES	2.1

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant	yes

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.

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
ETHYL ETHER	60-29-7	100	511.380779

SARA 311/312 Hazards : Chronic Health Hazard

Fire Hazard

Acute Health Hazard

SARA 313

Component(s)SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Pennsylvania Right To Know

SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC	64742-89-8	70.00 - 90.00 %
ETHYL ETHER	60-29-7	10.00 - 20.00 %
n-HEPTANE	142-82-5	1.00 - 5.00 %
CARBON DIOXIDE	124-38-9	1.00 - 5.00 %
ETHANOL	64-17-5	1.00 - 5.00 %

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New Jersey Right To Know

SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC	64742-89-8	70.00 - 90.00 %
ETHYL ETHER	60-29-7	10.00 - 20.00 %
n-HEPTANE	142-82-5	1.00 - 5.00 %
CARBON DIOXIDE	124-38-9	1.00 - 5.00 %
ETHANOL	64-17-5	1.00 - 5.00 %
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC	64742-53-6	0.10 - 1.00 %
TOLUENE	108-88-3	0.10 - 1.00 %

California Prop 65 Proposition 65 warnings are not required for this product

based on the results of a risk assessment.

The components of this product are reported in the following inventories:

TSCA : On TSCA Inventory

DSL : All components of this product are on the Canadian DSL.

AUSTR : On the inventory, or in compliance with the inventory

ENCS : Not in compliance with the inventory

KECL : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

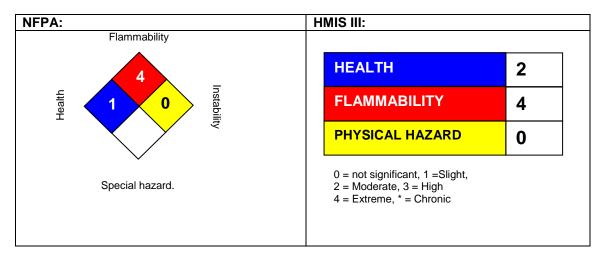
Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

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SECTION 16. OTHER INFORMATION

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NFPA Flammable and Combustible Liquids Classification

Not applicable

Full text of H-Statements referred to under sections 2 and 3.

H220	Extremely flammable gas.
H224	Extremely flammable liquid and vapor.
H225	Highly flammable liquid and vapor.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure
	if inhaled.
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Sources of key data used to compile the Safety Data Sheet Ashland internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

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

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information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet:

ACGIH: American Conference of Industrial Hygienists

BEI : Biological Exposure Index

CAS: Chemical Abstracts Service (Division of the American Chemical Society).

CMR: Carcinogenic, Mutagenic or Toxic for Reproduction

FG: Food grade

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement : Hazard Statement

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization

ICAO-TI (ICAO): Technical Instructions by the "International Civil Aviation Organization"

IMDG: International Maritime Code for Dangerous Goods

ISO: International Organization for Standardization

logPow: octanol-water partition coefficient

LCxx: Lethal Concentration, for xx percent of test population

LDxx: Lethal Dose, for xx percent of test population. ICxx: Inhibitory Concentration for xx of a substance

Ecxx : Effective Concentration of xx N.O.S.: Not Otherwise Specified

OECD: Organization for Economic Co-operation and Development

OEL : Occupational Exposure Limit
P-Statement : Precautionary Statement
PBT : Persistent , Bioaccumulative and Toxic

PPE: Personal Protective Equipment STEL: Short-term exposure limit STOT: Specific Target Organ Toxicity

TLV: Threshold Limit Value TWA: Time-weighted average

vPvB: Very Persistent and Very Bioaccumulative

WEL: Workplace Exposure Level

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

DOT: Department of Transportation

FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act HMIRC: Hazardous Materials Information Review Commission

HMIS: Hazardous Materials Identification System NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health OSHA: Occupational Safety and Health Administration

PMRA : Health Canada Pest Management Regulatory Agency

RTK: Right to Know

WHMIS: Workplace Hazardous Materials Information System