SOLVENT DIRECT

4/12/2018

B13792

SAFETY DATA SHEET

1. Identification

710 Solution **Product Name:**

Product Code: A-3004

SDS Date: 4/12/2018

Use: Industrial

Solvent Direct Inc. 19129 S Hamilton Ave Gardena, CA 90248

General Information: 310-344-4011

CHEMTREC: 800-424-9300

2. Hazard(s) identification

GHSClassification

Flammable liquids (Category 2) Serious eye damage/eye irritation (Category 2A)

Pictogram





Signalword Danger

HazardStatement

Highly flammable liquid and vapor. Causes serious eye irritation.

Precautionary

Highly flammable liquid and vapor. Causes serious eye irritation. Prevention Keep away from heat, sparks, open flames, hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion proof electrical/ventilating/lighting/equipment. Use only non sparking tools. Take precautionary measures against static discharge. Wash thoroughly after handling. Wear protective gloves/ eye protection/ face protection. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. In case of fire: Use dry sand, dry chemical, or alcohol resistant foam for extinction. Store in a well-ventilated place. Keep cool. Dispose of contents/ container in accordance with local/regional/national/international regulations.

Dispose of contents/container in accordance with local/ state/ and federal regulations.

Hazards not otherwise classified: Not available

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3. Composition/information on ingredients

Name	CAS	Concentration
n-Heptane	142-82-5	1-5
Ethanol	64-17-5	80-100

4. First-aid measures

General Advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
If Inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In Case of Skin Contact	Wash off with soap and plenty of water. Consult a physician.
In Case of Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If Swallowed	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indications of any immediate medical attention and special treatment needed

No data available

5. Fire-fighting measures

Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special Hazards	Carbon oxides
Advice for firefighters	Wear self-contained breathing apparatus for firefighting if necessary.
Further Information	Use water spray to cool unopened containers.

6. Accidental release measures

Personal precautions, protective equipment, and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. For personal protection see section 8.

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.

7. Handling and storage

Safe Handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of

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electrostatic charge.

Safe Storage

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. Hygroscopic

8. Exposure controls/personal protection

Name			CAS	
n-Heptane			142-82-	5
OSHA TWA	OSHA STEL	ACGIH TWA		ACGIH STEL
500 ppm, 2,000 mg/	500 ppm, 2,000 mg/	400 ppm		500 ppm
Ethanol			64-17-5	
OSHA TWA	OSHA STEL	ACGIH TWA		ACGIH STEL
1000 ppm	Not Available	1000 ppm		Not Available

Engineering Control

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Eye/Face Protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin Protection

Handle with butyl rubber gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

impervious clothing, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory Protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of Environmental Exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. Physical and chemical properties

Appearance Ethanol			Colorless, clear liquid	
Odor	Odor Ethanol			No data available
Odor	Odor Threshold Ethanol			No data available
рН	e Ethanol			No data available
Melting/Freezing Point Ethanol		Ethanol	-143.99C (-227.18F)	

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Initial Boiling Point/Rang	e Ethanol	78.0 - 80.0 °C (172.4 - 176.0 °F)	
Flash Point Ethanol		14.0 °C (57.2 °F) - closed cup	
Evaporation Rate Ethan	ol	No data available	
Flammability Ethanol		No data available	
Upper Explosion Limit	Ethanol	19%	
Lower Explosion Limit	Ethanol	3.3%	
Vapor Pressure Ethanol		59.5 hPa (44.6 mmHg) at 20.0 °C (68.0 °F)	
Vapor Density Ethanol		No data available	
Relative Density Ethan	ol	0.7974 g/cm3	
Water Solubility Ethanol		completely soluble	
Partition Coefficient Ethanol		No data available	
Auto Ignition Temperature Ethanol		363.0 °C (685.4 °F)	
Decomposition Temperature Ethanol		No data available	
Viscosity Ethano		No data available	

10. Stability and reactivity

Reactivity No data available Stable under recommended storage conditions. **Chemical Stability Possibility of Hazardous Reactions** Vapors may form explosive mixture with air. **Conditions to Avoid** Heat, flames and sparks. Extremes of temperature and direct sunlight.

Alkali metals, Oxidizing agents, Peroxides

Hazardous Decomposition Products No data available

11. Toxicological information

Incompatible materials

Name **CAS**

n-Heptane 142-82-5

LD50: > 5,000 mg/kg

Inhalation: No data available Dermal: No data available

Skin corrosion/irritation Irritating to skin. May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation Vapors may cause irritation to the eyes, respiratory system and

the skin.

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Respiratory or skin sensitization Did not cause sensitization on laboratory animals. Information given

is based on data obtained from similar substances.

Germ cell mutagenicity Tests on bacterial or mammalian cell cultures did not show mutagenic

effects.

Carcinogenicity Not identified as probable, possible or confirmed human carcinogen by IARC, NTP,

or ACGIH

Reproductive Species: Rat

Application Route: Inhalation Dose: 0, 900, 3000, 9000 ppm

Number of exposures: 6 hr/d, 5 d/wk

Test period: 13 wk

Method: OECD Test Guideline 416

NOAEL Parent: 9000 ppm NOAEL F1: 3000 ppm NOAEL F2: 3000 ppm

Additional information Concentrations substantially above the TLV value may cause narcotic effects.

Symptoms of overexposure may be headache, dizziness, tiredness, nausea

and vomiting. Solvents may degrease the skin.

Name CAS

Ethanol 64-17-5

LD50 Oral - Rat - 2,743 mg/kg Inhalation: No data available

LD50 Dermal - Rabbit - > 2,000 mg/kg

Skin corrosion/irritation Result: Mild skin irritation - 24 h

Serious eye damage/eye irritation Result: Irritating to eyes. - 24 h

Respiratory or skin sensitization No data available

Germ cell mutagenicity No data available

Carcinogenicity Not identified as probable, possible or confirmed human carcinogen by IARC, NTP,

or OSHA

Reproductive No data available

Additional information drying, cracking of the skin, Skin irritation

Liver - Irregularities

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12. Ecological information

Name	CAS	Toxicity
n-Heptane	142-82-5	LL50: 1.284 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) Method: QSAR LC50: 375 mg/l Exposure time: 96 h Species: Tilapia mosambica (Fish) EC50: 1.5 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) static test Toxic to aquatic organisms. LC50: 0.1 mg/l Exposure time: 96 h Species: Mysidopsis bahia (mysid shrimp) semi-static test Very toxic to aquatic organisms. EL50: 4.338 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (microalgae) Method: QSAR
Ethanol	64-17-5	Not Available

13. Disposal considerations

Dispose of contents/container in accordance with local/regional/national/international regulations.

14. Transport information

Proper Shipping Name	Alcohols, n.o.s.
Hazard Class	3
Identification Number	UN1987
Packing Group	
Label	Flammable

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15. Regulatory information

Name CAS

n-Heptane 142-82-5

SARA 302/304 No components were identified
SARA 313 No components were identified
CERCLA No components were identified

SARA 311/312 Fire Hazard

Acute Health Hazard

PROP 65 No components were identified

This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

Name CAS Ethanol 64-17-5

SARA 302/304 No components were identified
SARA 313 No components were identified
CERCLA No components were identified
SARA 311/312 Fire Hazard, Chronic Health Hazard
PROP 65 No components were identified

This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

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16. Other information, including date of preparation or last revision

SDS Date: 4/12/2018

Disclaimer:

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