

# SAFETY DATA SHEET

**SOF 663-200 Proof** 

## SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE

**COMPANY/UNDERTAKING** 

Synonyms Duplicating Fluid / Ethyl Alcohol/ Ethanol / Denatured Alcohol

Use Industrial use, Inks and Printing, Paint and Coatings, Raw material for chemical

processes, Raw material for industry

**Company** Solvents and Petroleum Services, Inc.

1405 Brewerton Rd, Syracuse NY 13208

800-315-4467

**Telephone** CHEMTREC North America Transportation Emergency (24-hr) (800) 424-9300

E-mail address mark@solventsandpetroleum.com

#### SECTION 2 HAZARDS IDENTIFICATION

**GHS Hazards** 

Flammable liquids Category 2
Eye irritation Category 2A

#### LABEL ELEMENTS

### **Hazard symbols**



Signal word Danger

**Hazard statements** H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

#### **Precautionary statements**

**Prevention** P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge. P280 Wear protective gloves/ eye protection/ face protection.

P264 Wash skin thoroughly after handling.

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Response P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all

contaminated clothing. Rinse skin with water/ shower.

P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical

or carbon dioxide for extinction.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 If eye irritation persists: Get medical advice/ attention.

**Storage** P403 + P235 Store in a well-ventilated place. Keep cool.

**Disposal** P501 Dispose of contents/ container to an approved waste disposal plant.

### SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight percent
Ethanol	64-17-5	81
2-Propanol	67-63-0	18
Propyl Acetate	109-60-4	1

See Section 8 for Exposure Guidelines and Section 15 for Regulatory Classifications.

#### SECTION 4 FIRST AID MEASURES

**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**Skin contact** Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. When symptoms persist or in all cases of doubt seek medical advice.

Wash contaminated clothing before re-use.

**Inhalation** Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration.

In case of shortness of breath, give oxygen. Call a physician immediately.

**Ingestion** If swallowed, call a poison control centre or doctor immediately. Do not induce vomiting

without medical advice. Never give anything by mouth to an unconscious person.

#### SECTION 5 FIREFIGHTING MEASURES

#### **FLAMMABLE PROPERTIES**

Fire/explosion Flash back possible over considerable distance. NFPA Class IB flammable liquid.

**Suitable** Water spray, Alcohol-resistant foam, Dry chemical, Carbon dioxide (CO2) **extinguishing media** 

Protective equipment

Wear self-contained breathing apparatus and protective suit. Keep containers and

**and precautions for** surroundings cool with water spray. **firefighters** 

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#### SECTION 6 ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and Evacuate personnel to safe areas. Remove all sources of ignition. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national

cleaning up regulations (see section 13). Do not flush into surface water or sanitary sewer system.

**Spill precautions** Material can create slippery conditions.

#### SECTION 7 HANDLING AND STORAGE

Safe handling advice Ensure all equipment is electrically grounded before beginning transfer operations. Keep

away from heat and sources of ignition.

Storage/Transport Ambient

pressure

Load/Unload

temperature

**Ambient** 

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **ENGINEERING MEASURES**

Ensure adequate ventilation, especially in confined areas.

#### PERSONAL PROTECTIVE EQUIPMENT

Eyes Wear as appropriate: Goggles, Face-shield

**Skin** Wear suitable protective clothing, gloves and eye/face protection.

Inhalation Respiratory protection is normally not required except in emergencies or when conditions

cause excessive airborne levels of mists or vapors. Use NIOSH approved respiratory

protection.

#### **EXPOSURE GUIDELINES**

<u>Components</u> <u>Exposure limit(s)</u>

Ethanol ACGIH STEL 1,000 ppm

OSHA PEL 1,000 ppm 1,900 mg/m3

**2-Propanol** OSHA PEL 400 ppm 980 mg/m3

ACGIH TLV (8-hour) 200 ppm

ACGIH STEL 400 ppm

Propyl Acetate OSHA PEL 200 ppm 840 mg/m3

ACGIH TLV (8-hour) 200 ppm

ACGIH STEL 250 ppm

PEL= Permissible Exposure Limits TWA= Time Weighted Average (8 hr.)

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TLV= Threshold Limit Value EL= Excursion Limit

STEL= Short Term Exposure Limit (15 min.)
WEEL= Workplace Environmental Exposure Level

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance liquid;

Colour clear

Form liquid

Odour alcohol-like

Odour Threshold no data available

Flash point 13 °C, 55.4 °F;

Flammability Upper explosion limit: 20.0 %(V)

Lower explosion limit: 4.0 %(V)

**Boiling point/boiling** 74 - 80 °C, 165.2 - 176 °F;

range

**Melting point/range** < -88 °C, < -127.3 °F; Propanol

**Auto-ignition** ca. 400 °C, 752 °F; ASTM D 2155;

temperature

Decomposition temperature

no data available

Flammability (solid, no data available

gas)

Vapour pressure ca. 66.661 hPa @ 20 °C, 68 °F;

Vapour density no data available

Density 0.79 g/cm3

Specific gravity no data available

Water solubility completely soluble

Viscosity no data available

pH no data available

Evaporation rate no data available

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Partition coefficient: n-

no data available

octanol/water

SECTION 10 STABILITY AND REACTIVITY

**Reactivity** Stable at normal ambient temperature and pressure.

**Chemical stability** No decomposition if stored and applied as directed.

Conditions to avoid Keep away from heat and sources of ignition.

Hazardous decomposition products

Combustion products include carbon dioxide, carbon monoxide and possibly other

unidentified organic compounds.

Materials to avoid Can react with strong oxidizers, inorganic acids, and halogens.

Hazardous polymerisation

None.

#### SECTION 11 TOXICOLOGICAL INFORMATION

Acute dermal toxicity LD50 rabbit: > 2,000 mg/kg; OECD Test Guideline 402

Test substance: Ethanol; (literature value)

LD50 rabbit: > 2,000 mg/kg

Test substance: Isopropanol; (literature value)

LD50 rat: > 2,000 mg/kg

Test substance: Propyl Acetate; (literature value)

Acute inhalation LC50 mouse (4 hours): > 20 mg/l

toxicity Test substance: Ethanol; (literature value)

LC50 rat (8 hours): > 20 mg/l

Test substance: Isopropanol; (literature value)

Acute oral toxicity LD50 rat: 2,000 mg/kg; OECD Test Guideline 401

Test substance: Ethanol; (literature value)

LD50 rat: > 2,000 mg/kg

Test substance: Isopropanol; (literature value)

LD50 rat: > 2,000 mg/kg

Test substance: Propyl Acetate; (literature value)

Skin (rabbit): OECD Test Guideline 404

corrosion/irritation Test substance: Ethanol Not irritating, (literature value)

(rabbit)

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Test substance: Isopropanol Not irritating, (literature value)

(rabbit)

Test substance: Propyl Acetate slight irritation, (literature value)

Eye damage/irritation

(rabbit): OECD Test Guideline 405

Test substance: Ethanol irritating, (literature value)

(rabbit)

Test substance: Isopropanol irritating, (literature value)

(rabbit)

Test substance: Propyl Acetate irritating, (literature value)

Respiratory or skin

guinea pig: not sensitizing; Maximisation Test

sensitization Ethanol, (literature value)

guinea pig: not sensitizing; Buehler Test

Isopropanol, (literature value)

Germ cell mutagenicity

Genotoxicity in vitro:

Type: Ames test; OECD Test Guideline 471

System: Salmonella typhimurium; with and without metabolic activation

Result: In vitro tests did not show mutagenic effects.

Test substance: Ethanol

(literature value) Type: Ames test

System: Salmonella typhimurium; with and without metabolic activation

Result: In vitro tests did not show mutagenic effects.

Test substance: Isopropanol

(literature value)

Genotoxicity in vivo:

no data available

**Assessment Mutagenicity:** 

Based on available data, the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity:

no data available

**Assessment Reproductive toxicity:** 

no data available

Teratogenicity:

no data available

Assessment teratogenicity:

no data available

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#### SOF 663-200%

STOT - single

The substance or mixture is not classified as specific target organ toxicant, single

exposure exposure.

STOT - repeated

rat; Oral; 90-day;NOAEL: 1,730 mg/kg

exposure NOAEL: 1,730 mg/kg LOAEL: 3.160 mg/kg

Test substance: Ethanol

Based on available data, the classification criteria are not met.

rat; Oral; 90-day; NOAEL: 1,730 mg/kg LOAEL: 3,160 mg/kg

Test substance: Isopropanol

Based on available data, the classification criteria are not met.

Aspiration toxicity no data available

Carcinogenicity Assessment carcinogenicity:

Contains no ingredient listed as a carcinogen

#### SECTION 12 ECOLOGICAL INFORMATION

Toxicity to fish LC50 (Pimephales promelas (fathead minnow)) 96 hours: > 100 mg/l; flow-through test

Test substance: Ethanol

(literature value)

LC50 (Pimephales promelas (fathead minnow)) 96 hours: > 100 mg/l; flow-through test

Test substance: Isopropanol

(literature value)

LC50 (Pimephales promelas (fathead minnow)) 96 hours: > 10 - 100 mg/l; static test

Test substance: Propyl Acetate

(literature value)

Toxicity to aquatic invertebrates

EC50 (Ceriodaphnia Dubia (water flea)) 48 hours: > 100 mg/l; static test

Test substance: Ethanol

(literature value)

EC50 (Daphnia magna (Water flea)) 24 hours: > 100 mg/l; static test

Test substance: Isopropanol

(literature value)

EC50 (Daphnia magna (Water flea)) 48 hours: > 10 - 100 mg/l; static test

Test substance: Propyl Acetate

(literature value)

**Toxicity to algae** EC50 (Chlorella vulgaris) 72 hours: > 100 mg/l; static test; OECD Test Guideline 201

Test substance: Ethanol

(literature value)

EC50 (Scenedesmus quadricauda (Green algae)) 7 d: > 100 mg/l; static test

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Test substance: Isopropanol

(literature value)

EC50 (Pseudokirchneriella subcapitata (green algae)) 72 hours: > 100 mg/l; static test

Test substance: Propyl Acetate

(literature value)

Chronic toxicity to aquatic invertebrates

NOEC (Ceriodaphnia Dubia (water flea)) 10 d: 9.6 mg/l; semi-static test

Test substance: Ethanol

(literature value)

**Biodegradation** 

Readily biodegradable.

OECD Test Guideline 301B (28 d): > 60 %

Test substance: Ethanol

(literature value)

BOD5 (5 d): 53 %

Test substance: Isopropanol

(literature value)

OECD Test Guideline 301D (20 d): > 60 %

Test substance: Propyl Acetate

(literature value)

Bioaccumulation

Test substance: Ethanol

No bioaccumulation is to be expected (log Pow <= 4).

Test substance: Isopropanol

No bioaccumulation is to be expected (log Pow <= 4).

Mobility in soil no data available

Other adverse effects no data available

### SECTION 13 DISPOSAL CONSIDERATIONS

Waste Code D001 - Ignitability (RQ 100 LB). This product has the RCRA characteristic of ignitability.

Re-evaluation of the product may be required by the user at the time of disposal, since the product uses, transformations, mixtures, contamination, and spillage may change the

classification.

Disposal methods Dispose of only in accordance with local, state, and federal regulations. Do not

contaminate any lakes, streams, ponds, groundwater or soil.

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Empty containers.

Empty containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, triple-rinsed, properly bunged and promptly returned to a drum reconditioner, or properly disposed.

#### SECTION 14 TRANSPORT INFORMATION

DOT UN 1170, Ethanol solutions, 3, II

IATA UN 1170, Ethanol solutions, 3, II

IMDG UN 1170, Ethanol solutions, 3, II

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

**Remarks** no data available

#### SECTION 15 REGULATORY INFORMATION

#### **U.S. FEDERAL REGULATIONS**

#### **OSHA Hazards (HCS 1994)**

Flammable liquid, Eye irritation, Skin irritation

#### **TSCA Inventory Listing**

 Components
 CAS-No.

 Ethanol
 64-17-5

 2-Propanol
 67-63-0

 Acetic acid, propyl ester
 109-60-4

#### SARA 302 Status

<u>CAS-No.</u> <u>Weight percent</u>

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 311/312 Classification

"Fire hazard", "Immediate (acute) health hazard"

#### **SARA 313 Chemical**

ComponentsCAS-No.Weight percent2-Propanol67-63-018 %

### US. EPA CERCLA Hazardous Substances (40 CFR 302)

<u>Components</u> <u>Reportable Quantity</u> <u>Weight percent</u>

none

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### **INTERNATIONAL REGULATIONS**

#### **WHMIS Classification**

Class B, Division 2: Flammable liquid. Class D, Division 2, Subdivision B: Toxic material.

#### **European Union**

Classification according to Regulation (EU) 1272/2008.

Flammable liquids, Category 2 Eye irritation, Category 2

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Australia. Inventory of Chemical Substances (AICS)	Listed
Japan. Inventory of Existing and New Chemical Substances (ENCS)	Listed
Japan. Industrial Safety & Health Law (ISHL) Inventory	Listed
Canada. Domestic Substances List (DSL) Inventory	Listed
Canadian Non-Domestic Substance Listing (NDSL)	Not listed
European Inventory of Existing Commercial Chemical Substances (EINECS) Listing	Listed
Philippines. Inventory of Chemicals / Chemical Substances (PICCS)	Listed
Korea. Existing Chemicals Inventory (KECI)	Listed
China. Inventory of Existing Chemical Substances (IECSC)	Listed
Mexico. National Inventory of Chemical Substances (INSQ)	Listed
New Zealand. Inventory of Chemicals (NZIoC)	Listed
Switzerland. Inventory of Notified New Substances (CHINV)	Listed
	Listeu

Please note: The names and CAS numbers which are used for this product in the stated inventories may deviate from the information which is listed in Section 3.

### **STATE REGULATIONS**

California Prop. 65
Components
none

CAS-No.

#### SECTION 16 OTHER INFORMATION

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#### **HAZARD RATINGS**

			Physical Hazard/
	<u>Health</u>	<u>Flammability</u>	Instability
<b>HMIS</b> ®	2	3	0
NFPA	2	3	0

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