












# (Material) Safety Data Sheet

Transport Symbol	WHMIS	NFPA	Personal Protective Equipment
	 		    

Original Preparation Date: 22-Feb-2010

Revision Date: 02-Jul-2014

Revision Number: 1

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

**Product Name:**  
INKSOLV Solvent 6118

**Product Code:**  
017772

**Contact Manufacturer:**  
Archer Daniels Midland Company  
4666 Faries Parkway  
Decatur, IL 62526, USA  
Telephone Number: (+1) 217-424-5200  
**Emergency response telephone number:**  
Chemtrec 1-800-424-9300 (CCN 1635)

**Use of the Substance / Preparation:**  
Industrial use

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

Danger. Highly flammable liquid and vapour. Vapors may be irritating to eyes, nose, throat, and lungs. May be harmful if swallowed. Not for human consumption. Inhalation, ingestion or skin absorption of methanol can cause significant disturbance in vision, including blindness. Irritating to eyes.

**Appearance**  
Clear Bright




**Physical State**  
Liquid

**Odor**  
Characteristic

### Classification according to 29 CFR 1910, amended to conform to the United Nations' Globally Harmonized System of Classification and Labelling of Chemicals (GHS):

Serious Eye Damage / Eye Irritation	Category 2
Specific Target Organ Toxicity (STOT) Single Exposure.	Category 1 Affected organs: Optic nerve (nervus opticus), central nervous system.
Flammable Liquids	Category 2

### OSHA / GHS Label Elements

Signal Word:	Danger Warning
GHS Hazard Pictogram(s):	  
Hazard Statement(s):	H225 Highly flammable liquid and vapour H319 Causes serious eye irritation H370 Causes Damage to organs. (Affected organs: Optic nerve (nervus opticus), central nervous system.)

### Prevention Precautionary Statements:

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static charges. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands and exposed skin thoroughly after handling. Do not breathe fume/gas/mist/vapours/spray. Do not eat, drink or smoke when using this product. Wear eye/face protection.

**Response Precautionary Statements:**

If on skin (or hair): Take off immediately, all contaminated clothing. Rinse skin with water. In case of fire: Use Alcohol-resistant foam / dry chemical / carbon dioxide (CO<sub>2</sub>) to extinguish. Do not use a solid water stream as it may scatter and spread fire. 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. If exposed: Get medical advice/attention.

**Storage Precautionary Statements:**

Store in a well-ventilated place. Keep cool. Store locked up.

**Disposal Precautionary Statements:**

Dispose of contents/container in accordance with all applicable national and local regulations.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Family**

Alcohols

The following component(s) in this product are considered hazardous under applicable OSHA (USA), WHMIS (Canada), and/or NOM-002-SCT-2003 (Mexico) regulations

Chemical Name	CAS-No	Volume %	North American Hazard Indicator
Ethyl alcohol	64-17-5	84.63	OSHA / GHS: Flam. Liq. 2. Eye Irrit. 2. WHMIS: B2. D2B.
Methyl alcohol	67-56-1	14.25	OSHA / GHS: Flam. Liq. 3. Acute Tox. 3. (oral) (dermal) (inhalation). STOT SE, Cat. 1. Affected organs: Optic nerve (nervus opticus), central nervous system. WHMIS: D1B, D2A, D2B. B2.
n-Propyl acetate	109-60-4	1.12	OSHA / GHS: Flam. Liq. 2. Eye Irrit. 2. STOT SE 3.

## 4. FIRST AID MEASURES

### Description of first aid measures

**Eye Contact** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye.

**Skin Contact** Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Consult a physician if necessary.

**Inhalation** Move to fresh air in case of accidental inhalation of vapors. Artificial respiration and/or oxygen may be necessary. Call a physician immediately.

**Ingestion** Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Swallowing methanol in significant quantities can be potentially life threatening. Onset of symptoms may be delayed for up to 18-24 hours after ingestion. Call a physician or Poison Control Centre immediately.

**Protection of First-aiders** Use personal protective equipment. Remove all sources of ignition.

**General Advice** When symptoms persist or in all cases of doubt seek medical advice.

### Most important symptoms and affects, both acute and delayed

**Eyes** Irritating to eyes.

**Skin** May cause slight skin irritation.

**Inhalation** Inhalation of vapors in high concentration may cause irritation of respiratory system. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. In humans, ethanol is readily absorbed by the oral and inhalation routes, is distributed throughout all tissues and organs and is readily, metabolized and excreted. At exposures relevant to occupational inhalation exposure, the alcohol dehydrogenase metabolic route in the liver dominates and does not become saturated. Ethanol is not accumulated in the body. Inhalation of methanol can cause significant disturbance in vision, including blindness.

**Ingestion** Ingestion may cause irritation to mucous membranes. May cause drowsiness and dizziness. Lack of coordination. Nausea. Vomiting. Abdominal pain. Unconsciousness. Very severe cases of overexposure may result in coma. Ingestion of methanol may be fatal or cause blindness.

**Main Symptoms** Dizziness. Vomiting. Nausea. Drowsiness. Severe vision effects, including increased sensitivity to light, blurred vision, and blindness may develop following an 18-24 hour symptom-free period after ingestion. Coma.

### Indication of any immediate medical attention and special treatment needed

**Notes to Physician** Contains methanol. Acute exposure to methanol, either through ingestion or breathing high airborne concentrations can result in symptoms appearing between 40 minutes and 72 hours after exposure. Symptoms and signs are usually limited to the Central Nervous System (CNS), eyes and gastrointestinal tract. A profound metabolic acidosis occurs in severe poisoning and serum bicarbonate levels are a more accurate measure of severity than serum methanol levels. Treatment protocols are available from most major hospitals and early collaboration with appropriate hospitals is recommended. Ethanol significantly decreases the toxicity of methanol because it competes for the same metabolic enzymes, and has been used to treat methanol poisoning.

## 5. FIRE-FIGHTING MEASURES

### Flammable Properties

Flammable liquid. Vapors may cause flash fire or explosion. Vapors may form explosive mixtures with air. Material may pose fire hazard because it is dispersed (or spread) by water.

### Extinguishing media

**Suitable Extinguishing Media** Alcohol-resistant foam. Dry chemical. Carbon dioxide (CO<sub>2</sub>). Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Evacuate area and fight fire from a safe distance. Cool closed containers exposed to fire with water spray.

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

### Special hazards arising from the substance or mixture

**Hazardous Combustion Products** Thermal decomposition can lead to release of irritating gases and vapors, Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>).

**Specific Hazards Arising from the Chemical** Risk of ignition. Keep product and empty container away from heat and sources of ignition.

**Sensitivity to mechanical impact** No information available.

**Sensitivity to static discharge** Yes.

### Advice for fire-fighters

**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.

**NFPA**

Health 2  
Flammability 3

Stability and Reactivity 0  
Physical hazard None known



## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions**

Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Remove all sources of ignition. Take precautionary measures against static discharges. Pay attention to flashback. Use personal protective equipment. Avoid contact with the skin and the eyes.

**Environmental Precautions**

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

**Methods for Clean-up**

Small spills: Allow to evaporate if it is safe to do so or contain and absorb using earth, sand or other inert material then transfer into suitable containers for recovery or disposal. Ventilate contaminated area thoroughly. Use non-sparking tools. Do not use electrical equipment unless it is intrinsically safe.

Large spills: Dike or dam to contain for later disposal. Cover drains. Contact emergency authorities.

## 7. HANDLING AND STORAGE

**Handling**

Take precautionary measures against static discharges. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from open flames, hot surfaces and sources of ignition. Wear personal protective equipment. Do not breathe vapors or spray mist. Use only in area provided with appropriate exhaust ventilation. Use product only in closed system. Avoid contact with skin and eyes.

**Storage**

Keep in properly labeled containers. Keep away from heat and sources of ignition. Keep containers tightly closed in a cool, well-ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Limits

Components with workplace control parameters.

Chemical Name	ACGIH TLV	OSHA PEL	MEXICO	NIOSH
Ethyl alcohol	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>	TWA: 1000 ppm (LMPE-PPT) TWA: 1900 mg/m <sup>3</sup> (LMPE-PPT)	IDLH: 3300 ppm 10% LEL TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>
Methyl alcohol	STEL: 250 ppm TWA: 200 ppm	TWA: 200 ppm TWA: 260 mg/m <sup>3</sup>	TWA: 200 ppm (LMPE-PPT) TWA: 260 mg/m <sup>3</sup> (LMPE-PPT) STEL: 250 ppm (LMPE-CT) STEL: 310 mg/m <sup>3</sup> (LMPE-CT) Skin	IDLH: 6000 ppm Skin STEL: 250 ppm STEL: 325 mg/m <sup>3</sup> TWA: 200 ppm TWA: 260 mg/m <sup>3</sup>
n-Propyl acetate	STEL: 250 ppm TWA: 200 ppm	TWA: 200 ppm TWA: 840 mg/m <sup>3</sup>	TWA: 200 ppm (LMPE-PPT) TWA: 840 mg/m <sup>3</sup> (LMPE-PPT) STEL: 250 ppm (LMPE-CT) STEL: 1050 mg/m <sup>3</sup> (LMPE-CT)	IDLH: 1700 ppm STEL: 250 ppm STEL: 1050 mg/m <sup>3</sup> TWA: 200 ppm TWA: 840 mg/m <sup>3</sup>

### Engineering Measures

Ensure adequate ventilation, especially in confined areas. Apply technical measures to comply with the occupational exposure limits. Ensure that eyewash stations and safety showers are close to the workstation location.

### General Hygiene Considerations

When using, do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing. Handle in accordance with good industrial hygiene and safety practice.

### Personal Protective Equipment

#### Eye/face Protection.

Safety goggles are recommended.

#### Skin and Body Protection

Long sleeved clothing. Chemical resistant apron. Antistatic boots. Appropriate body protection should be selected based on activity and possible exposure. Neoprene gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used.

#### Respiratory Protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Wear a positive-pressure supplied-air respirator with full facepiece.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Clear Bright
<b>Physical State</b>	Liquid
<b>Odor</b>	Characteristic
<b>Odor Threshold</b>	No information available
<b>pH</b>	No information available
<b>Flash Point</b>	14 °C / 57 °F (Tag closed cup)
<b>Autoignition Temperature</b>	No information available
<b>Boiling point</b>	64 °C / 147 °F
<b>Melting/Freezing Point</b>	No information available
<b>Decomposition temperature</b>	No information available
<b>Oxidizing Properties</b>	No information available
<b>Flammability Limits in Air</b>	Upper: 36% (Methanol) Lower: 3.3% (Ethanol)
<b>Water Solubility</b>	Miscible
<b>Evaporation Rate</b>	3.5 [Butyl acetate = 1.0]

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<b>Vapor Pressure</b>	54.8 mmHg
<b>Vapor Density</b>	1.5 at 172°F (Air = 1.0)
<b>Specific Gravity / Relative Density</b>	0.7917 at 20°C (Water = 1.0)
<b>Partition Coefficient (n-octanol/water)</b>	No information available

## 10. STABILITY AND REACTIVITY

**Reactivity** May react violently with very strong oxidising agents.

**Stability** Stable under normal conditions.

**Possibility of Hazardous Reactions** Hazardous polymerization does not occur.

**Conditions to Avoid** Heat, flames and sparks. Incompatible products.

**Incompatible Materials** Strong oxidizing agents. Strong mineral acids. Aluminium at higher temperatures.

**Hazardous Decomposition Products** Thermal decomposition can lead to release of irritating gases and vapors, Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>).

## 11. TOXICOLOGICAL INFORMATION

## Information on toxicological effects

<b>Acute toxicity</b>	Ingestion, inhalation, or dermal absorption of even small amounts of methanol may result in methanol poisoning. The minimal lethal dose of methanol in humans has not been fully determined at this time. Ethanol significantly decreases the toxicity of methanol because it competes for the same metabolic enzymes, and has been used to treat methanol poisoning. Due to the nature of the product constituents, sufficient data has not yet been identified to classify the mixture as a whole for acute toxicity. Appropriate care should be taken to avoid oral, dermal, and inhalation exposure.				
<b>Chemical Name</b>	<b>Volume %</b>	<b>LD50 Oral</b>	<b>LD50 Dermal</b>	<b>LC50 Inhalation</b>	
Ethyl alcohol	84.63	7060 mg/kg Rat			
Methyl alcohol	14.25	5628 mg/kg Rat	15800 mg/kg Rabbit	64000 ppm Rat 4 h 83.2 mg/L Rat 4 h	
<b>Skin corrosion/irritation</b>	Based on available data, the classification criteria are not met. All available acute 4 hour exposure studies for ethanol show not irritating in animals (OECD404 or equivalent) and humans. In humans, repeated dose studies for ethanol show no irritation with repeated application over a whole day under occlusive conditions for up to 12 days. Further exposures cause irritation to occur.				
<b>Serious eye damage/eye irritation</b>	Cat. 2 H319: Causes serious eye irritation.				
<b>Respiratory or skin sensitisation</b>	Based on available data, the classification criteria are not met. Mouse swelling study: negative (ethanol) Local Lymph Node Assay (OECD429): Negative (ethanol) Guinea Pig maximisation study: (OECD406) Negative (ethanol) Respiration sensitisation: no data available. (ethanol).				
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met. Bacterial reverse mutation studies (OECD471) for ethanol: all negative In vitro cytogenicity studies (eg OECD473) for ethanol: negative without metabolic activation. No studies available with metabolic activation. In vitro mammalian cell gene mutation studies (OECD476) for ethanol: negative with and without metabolic activation. In vivo micronucleus test (OECD474) for ethanol: no convincing evidence that ethanol causes micronuclei in the bone marrow. In vivo chromosome aberration test (OECD475) for ethanol: negative. Dominant Lethal assay (OECD478): Ethanol is unlikely to produce an effect up to the maximum tolerated dose. There is some evidence from in vitro studies that ethanol can cause genotoxic or clastogenic effects. However, the effects seen are weak and only occur at very high doses. The balance of evidence is that ethanol is not genotoxic.				
<b>Carcinogenicity</b>	Based on available data, no evidence of carcinogenicity. Rats: NOAEL>3000mg/kg (ethanol) Mice: Females NOAEL>4400mg/kg, Males NOAEL>4250mg/kg based on historic control data, BMDL10=1400mg/kg based on concurrent control data. (ethanol) In humans, the consumption of alcoholic beverages is associated with an increased incidence of certain tumours. There is no evidence that the exposure of humans to ethanol other than by repeated consumption of alcoholic beverages may result in an increase in cancer incidence. The table below indicates whether each agency has listed any ingredient as a carcinogen.				
<b>Chemical Name</b>	<b>Volume %</b>	<b>OSHA</b>	<b>NTP</b>	<b>ACGIH</b>	<b>IARC</b>
Ethyl alcohol	84.63	Present	Known	A3 - Confirmed Animal Carcinogen	Group 1 - Carcinogenic to Humans

<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met <b>FERTILITY (for ethanol):</b> NOAEL (oral, mouse) = 13.8g/kg (OECD416 equiv.) NOAEC (inhalation, rat) >16,000ppm <b>DEVELOPMENTAL TOXICITY (OECD414 equiv):</b> NOAEL (oral) = 5.2g/kgbw/day NOAEC (inhalation) = 39mg/l. Source IUCLID chapter 7.8 summary In humans excessive consumption of alcoholic beverages during pregnancy is associated with the induction of Fetal Alcohol Syndrome in the offspring causing reduced birth weight and physical and mental defect to occur. There is no evidence that such effects might be caused by exposures other than direct ingestion of alcoholic drinks. Blood ethanol concentrations resulting from ethanol exposure by any route other than deliberate and repeated oral consumption are unlikely to reach levels associated with reproductive or developmental effects. From the available data, it can be concluded that it is impossible to reach the doses of ethanol required to produce any sort of adverse reproductive response other than by repeated oral consumption of large amounts of ethanol, doses normally only associated with problem drinking, and therefore classification for reproductive or developmental toxicity in the context of a chemical substance is not appropriate or warranted.
<b>STOT - single exposure</b>	STOT SE, Cat. 1. Affected organs: Optic nerve (nervus opticus), central nervous system. (Classification is based on available literature data for the significant mixture components).
<b>STOT - repeated exposure</b>	Based on available data, the classification criteria are not met. In sub-chronic feeding or drinking water studies in rats, NOAELs for ethanol ranged from 1.73g/kg to 3.9g/kg. The most sensitive affect above these doses appeared to be to the kidney in males. Effects are only seen at doses well above the levels that would require classification.
<b>Aspiration hazard</b>	Based on available data, no known aspiration hazard.

**Potential health effects****Eyes**

Irritating to eyes.

**Skin**

May cause slight skin irritation.

**Inhalation**

Inhalation of vapors in high concentration may cause irritation of respiratory system. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. In humans, ethanol is readily absorbed by the oral and inhalation routes, is distributed throughout all tissues and organs and is readily, metabolized and excreted. At exposures relevant to occupational inhalation exposure, the alcohol dehydrogenase metabolic route in the liver dominates and does not become saturated. Ethanol is not accumulated in the body. Inhalation of methanol can cause significant disturbance in vision, including blindness.

**Ingestion**

Ingestion may cause irritation to mucous membranes. May cause drowsiness and dizziness. Lack of coordination. Nausea. Vomiting. Abdominal pain. Unconsciousness. Very severe cases of overexposure may result in coma. Ingestion of methanol may be fatal or cause blindness.

**Main Symptoms**

Dizziness. Vomiting. Nausea. Drowsiness. Severe vision effects, including increased sensitivity to light, blurred vision, and blindness may develop following an 18-24 hour symptom-free period after ingestion. Coma.



## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Undetermined on the product level. Component-level values are listed below.

Chemical Name	Fresh Water Algae	Acute Fish Toxicity	Daphnia (Water flea)	Effects on micro-organisms	Other
Ethyl alcohol	Chlorella vulgaris, 72hr: EC50 275mg/l, EC10 11.5mg/l; Selenastrum capricornutum, 72hr, EC50: 12.9g/l, EC10=0.44g/l; Chlamydomonas eugametos, 48hr, EC50: 18g/l, NOEC=7.9g/l	LC50 (96hr) Salmo gairdneri: 13g/l; Pimephales promelas: 13.5, 14.2 and 15.3g/l.	(48hr) Daphnia Magna: 12.34g/l; NOEC (reproduction, 21 days): >10mg/l. Ceriodaphnia dubia: EC50 (48hrs): 5.012g/l; NOEC (reproduction, 10 days): 9.6mg/l. Palaemonetes pugio NOEC (developmental, 10 days): 79mg/l.		
Methyl alcohol		LC50: 96h 18-20ml/L (Oncorhynchus mykiss) static LC50: 96h 19500-20700mg/L (Oncorhynchus mykiss) flow-through			
n-Propyl acetate		LC50: 96h 56-64mg/L (Pimephales promelas) flow-through LC50: 96h 56-64mg/L (Pimephales promelas) static	EC50: 24h 318 mg/L (Daphnia magna)		

**Bioaccumulative Potential** Based on the partition coefficient, ethanol has a low bioaccumulation potential.

Chemical Name	log Kow	BCF
Ethyl alcohol	-0.32	
Methyl alcohol	-0.77	

### Persistence/Degradability

Ethanol is readily biodegradable. BOD20=84%. Ethanol is expected to degrade readily in sewage treatment plants.

### Mobility

If released to air or water ethanol will disperse rapidly. If released to soil it will evaporate at a rapid rate. Ethanol is volatile and water soluble. If released to the environment it will partition to air and water. Ethanol is poorly absorbed on to soil or sediments.

### PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).

## 13. DISPOSAL CONSIDERATIONS

Whenever possible, as rules and regulations allow, please recycle or manage materials to minimize waste.

### Waste Disposal Methods

Dispose of in compliance with the laws and regulations pertaining to this product in your jurisdiction. The classification and disposal method of waste material resulting from this product should be determined by the user at the time of disposal. Seek guidance from a qualified person or service within your local jurisdiction. Can be incinerated, when in compliance with local regulations. Hazardous as supplied. The classification and disposal method of waste material resulting from this product should be determined by the user at the time of disposal.

### Contaminated Packaging

Empty containers may contain hazardous residues. Do not cut, puncture or weld on or near to the container. Labels should not be removed from containers until they have been cleaned. Contaminated containers must not be treated as household waste. Containers should be cleaned by appropriate methods and then re-used or disposed of by landfill or incineration as appropriate. Do not incinerate closed containers.

## 14. TRANSPORT INFORMATION

**Domestic transport regulations (USA)**

## DOT

UN-No UN1170  
 Proper Shipping Name Ethanol solution  
 Hazard Class 3  
 Packing Group II  
 Transport Symbol



Chemical Name	CAS-No	Volume %	Reportable Quantity (RQ)
Methyl alcohol	67-56-1	14.25	5000 lb / 2270 kg

**Domestic transport regulations (Canada)**

## TDG

UN-No UN1170  
 Proper Shipping Name ETHANOL more than 24 per cent ethanol, by volume  
 Hazard Class 3  
 Subsidiary Class 6.1  
 Packing Group II

**Domestic transport regulations (Mexico)**

## MEX

UN-No UN1170  
 Proper Shipping Name Etanol  
 Hazard Class 3  
 Packing Group II

**International transport regulations**

## ICAO

UN-No UN1170  
 Proper Shipping Name Ethanol solution  
 Hazard Class 3  
 Packing Group II

## IATA

UN-No UN1170  
 Proper Shipping Name Ethanol solution  
 Hazard Class 3  
 Packing Group II

## IMDG/IMO

UN-No UN1170  
 Proper Shipping Name Ethanol (Ethyl alcohol)  
 Hazard Class 3  
 Packing Group II

## 15. REGULATORY INFORMATION

**International Inventories**

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

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	AICS	ENCS ISHL	CHINA	PICCS	KECL	NZIoC
Ethyl alcohol	Yes	Yes	No	Yes 200-578-6	No	Yes	Yes 2-202	Yes	Yes	Yes KE-13217	Yes
Methyl alcohol	Yes	Yes	No	Yes 200-659-6	No	Yes	Yes 2-201	Yes	Yes	Yes KE-23193	Yes
n-Propyl acetate	Yes	Yes	No	Yes 203-686-1	No	Yes	Yes (2)-727	Yes	Yes	Yes KE-29778	Yes

**USA****Federal Regulations****Ozone Depleting Substances:**

No Class I or Class II material is known to be used in the manufacture of, or contained in, this product.

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 CFR 372.

Chemical Name	CAS-No	Volume %	SARA 313 - Threshold limits
Methyl alcohol	67-56-1	14.25	1.0% de minimis concentration

**CERCLA/SARA 103-302**

Sections 103-302 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 CFR 103-302. In order to comply with EPCRA 304, Hazardous Substances and their Reportable Quantities, spills or discharges into the environment of a hazardous substance in a quantity equal to or exceeding the RQ within any 24-hour period, must immediately be reported to the National Response Center (Phone: 800-424-8802).

Chemical Name	CAS-No	Volume %	RQ	TPQ
Methyl alcohol	67-56-1	14.25	5000 lb / 2270 kg	

**SARA 311/312 Hazardous Categorization**

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

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 63)**

This product is known to contain the following HAPs:

Chemical Name	CAS-No	Volume %	HAPS
Methyl alcohol	67-56-1	14.25	Present

**State Regulations****California Proposition 65**

This product is known to contain the following Proposition 65 chemicals:

Chemical Name	CAS-No	Volume %	Category
Ethyl alcohol	64-17-5	84.63	Developmental
Methyl alcohol	67-56-1	14.25	Developmental
Acetaldehyde	75-07-0	TRACE (0.002)	Carcinogen

• Ethanol is only considered a Prop 65 chemical as "ethyl alcohol IN alcoholic beverages" and not as used in fuel or industrial applications

**State Right-to-Know**

Component Information.

Chemical Name	Volume %	Massachusetts	Minnesota	New Jersey	Pennsylvania

Ethyl alcohol	84.63	Yes	Yes	Yes 0844	Yes
Methyl alcohol	14.25	Yes	Yes	Yes 1222	Yes Environmental hazard
n-Propyl acetate	1.12	No	Yes	No	Yes
Acetaldehyde	TRACE (0.002)	Yes	Yes	Yes 0001	Yes
Acetone	TRACE (0.0004)	Yes	Yes	Yes 0006	Yes Environmental hazard

## Canada

### WHMIS Product Classification

B2 - Flammable liquid. D1B - Materials causing immediate and serious toxic effects, toxic material. D2A - Materials causing other toxic effects, very toxic material.

### WHMIS Ingredient Disclosure List IDL

Component Information

Chemical Name	Volume %	WHMIS IDL	WHMIS Threshold limits
Ethyl alcohol	84.63	Listed	0.1%
Methyl alcohol	14.25	Listed	0.1%
n-Propyl acetate	1.12	Listed	1%

### (NPRI) Canadian National Pollutant Release Inventory

Component Information

Chemical Name	Volume %	NPRI
Ethyl alcohol	84.63	Part 5, Individual Substances Part 4 Substance
Methyl alcohol	14.25	Part 1, Group A Substance; Part 5, Individual Substances; Part 4 Substance
n-Propyl acetate	1.12	Part 4 Substance

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.

## Mexico

Mexico - Grade

Serious risk, Grade 3 Moderate risk, Grade 2

## 16. OTHER INFORMATION

Prepared By: ADM Fuels & Industrials  
 Original Preparation Date: 22-Feb-2010  
 Revision Date: 02-Jul-2014  
 Revision Number: 1  
 Reason for revision: New SDS format. This version replaces all previous versions.

**Abbreviations and acronyms**

ACGIH TLV - American Conference of Governmental Industrial Hygienists Threshold Limit Values  
AICS - Australian Inventory of Chemical Substances (Australia)  
A3 - Animal Carcinogen  
CAS - Chemical Abstract Service  
CHINA - Chinese Inventory of Existing Chemical Substances (China)  
DOT - U.S. Department of Transportation  
DSL - Domestic Substance List (Canada)  
EC50 - Half maximal effective concentration  
EINECS - European Inventory of Existing Commercial Chemical Substances (EU)  
ELINCS - European List of Notified Chemical Substances (EU)  
ENCS - Existing and New Chemical Substances (Japan) / ISHL - Industrial Health and Safety Law (Japan)  
GHS - Globally Harmonized System of Classification and Labelling of Chemicals  
Group 1 - Carcinogenic to Humans  
IATA - International Air Transport Association Dangerous Goods Regulations  
IARC - International Agency for Research on Cancer  
ICAO - International Civil Aviation Organisation  
ICL - In Commerce List (Canada)  
IMDG - International Maritime Dangerous Goods Code  
IMO - International Maritime Organization  
KECL - Korean Existing and Evaluated Chemical Substances (Korea)  
LC50 - Lethal concentration that produces fatalities in 50% of a given test population  
LD50 - Median lethal dose of a given test population  
MEX - NOM-002-SCT/2003 List of Hazardous Substances and Materials Most Commonly Transported  
MEXICO - Mexico Occupational Exposure Limits  
NDSL - Non Domestic Substances List (Canada)  
NFPA - National Fire Protection Association  
NIOSH - National Institute of Occupational Safety and Health  
NOAEL - No Observed Adverse Effect Level  
NTP - National Toxicology Program  
NZIoC - New Zealand Inventory of Chemicals (New Zealand)  
OECD - Organisation for Economic Co-operation and Development  
OSHA - Occupational Safety & Health Administration  
OSHA PEL - Occupational Safety and Health Administration Permissible Exposure Limits  
PICCS - Inventory of Chemicals and Chemical Substances (Philippines)  
PNEC - Predicted No-Effect Concentration  
Present - Carcinogen or potential carcinogen to be identified under OSHA's Hazard Communication Standard  
STOT - Specific Target Organ Toxicity  
TDG - Transportation of Dangerous Goods (Transport Canada)  
TSCA - Toxic Substances Control Act, Section 8(b) Inventory (USA)  
TWA - Time Weighted Average: Average concentration that should not be exceeded during a work day (usually 8-hours)  
vPvB - Very Persistent and Very Bioaccumulative  
WHMIS - Workplace Hazardous Materials Information System

**The information provided on this (M)SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.**

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