

Safety Data Sheet



Section 1: Identification

Product identifier

Product Name

- **E85**

Synonyms

- E75; E-75; E85; E-85; ED75/ED85; Ethanol/Gasoline Fuel Blend; Fuel Ethanol ED75/ED85

SDS Number/Grade

- 0025NOR03

Relevant identified uses of the substance or mixture and uses advised against

Recommended use

- Automotive fuel

Details of the supplier of the safety data sheet

Manufacturer

- Northern Tier Energy
301 St. Paul Park Road
St. Paul Park, MN 55071
United States
www.ntenergy.com

Telephone (General) • 651-459-9771

Emergency telephone number

Chemtrec

- 800-424-9300

Section 2: Hazard Identification

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012

- Flammable Liquids 2
Skin Irritation 2
Eye Irritation 2
Acute Toxicity Inhalation 3
Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
Germ Cell Mutagenicity 2

Label elements

OSHA HCS 2012

DANGER



Hazard statements • Highly flammable liquid and vapour
Causes skin irritation

Causes serious eye irritation
 Toxic if inhaled
 May cause drowsiness or dizziness
 Suspected of causing genetic defects.

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 and/or hot surfaces. - No smoking.
 Keep container tightly closed.
 Ground and/or bond container and receiving equipment.
 Use explosion-proof electrical/ventilating/lighting/equipment.
 Use only non-sparking tools.
 Take precautionary measures against static discharge.
 Avoid breathing mist, vapours and/or spray.
 Wash thoroughly after handling.
 Use only outdoors or in a well-ventilated area.
 Wear protective gloves/protective clothing/eye protection/face protection.
- Response** • In case of fire: Use appropriate media for extinction.
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 Call a POISON CENTER or doctor/physician.
 If on skin: Wash with plenty of water .
 Specific treatment, see supplemental first aid information.
 Take off contaminated clothing and wash before reuse.
 If skin irritation occurs: Get medical advice/attention.
 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.
 IF exposed or concerned: Get medical advice/attention.
- Storage/Disposal** • Store in a well-ventilated place. Keep container tightly closed.
 Keep cool.
 Store locked up.
 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
- Supplemental information** • 6.5-25 percent of this product consists of an ingredient of unknown toxicity.

Other hazards

- OSHA HCS 2012**
- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Canada

According to: WHMIS

Classification of the substance or mixture

- WHMIS**
- Flammable Liquids - B2
 - Other Toxic Effects - D2B

Label elements

WHMIS



- Flammable Liquids - B2
- Other Toxic Effects - D2B

Other hazards

WHMIS

- In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

Section 3 - Composition/Information on Ingredients

Substances

- Material does not meet the criteria of a substance.

Mixtures

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Ethanol	CAS:64-17-5	75% TO 85%	Ingestion/Oral-Rat LD50 • 7060 mg/kg Inhalation-Rat LC50 • 5900 mg/m ³ 6 Hour(s)	OSHA HCS 2012: Flam. Liq. 2; Acute Tox. 3 (Inhl, Vapor); Skin Irrit. 2; Eye Irrit. 2; Muta. 2; STOT SE 3: Narc.;	NDA
Naphtha (petroleum), isomerization	CAS:64741-70-4	2% TO 6%	NDA	OSHA HCS 2012: Not Classified	NDA
Naphtha (petroleum), heavy catalytic reformed	CAS:64741-68-0	2% TO 6%	NDA	OSHA HCS 2012: Skin Irrit. 2;	NDA
Hydrocarbons, C3-11, catalytic cracker distillates	CAS:68476-46-0	2% TO 6%	NDA	OSHA HCS 2012: Not Classified	NDA
Full-range alkylate (petroleum) naphtha	CAS:64741-64-6	0.5% TO 1.5%	NDA	OSHA HCS 2012: Not Classified	NDA

Section 4: First-Aid Measures

Description of first aid measures

Inhalation

- Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. Get medical attention if symptoms occur.

Skin

- In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Remove and isolate contaminated clothing. Wash skin with soap and water. If irritation develops and persists, get medical attention.

Eye

- In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye irritation persists: Get medical advice/attention.

Ingestion

- Do NOT induce vomiting. Obtain medical attention immediately if ingested.

Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5: Fire-Fighting Measures

Extinguishing media

- Suitable Extinguishing Media** • For small fires, Class B fire extinguishing media such as CO₂, dry chemical, foam (AFFF/ATC) or water spray.
For large fires, water spray, fog or foam (AFFF/ATC)

- Unsuitable Extinguishing Media** • Avoid using straight water streams.

Special hazards arising from the substance or mixture

- Unusual Fire and Explosion Hazards** • HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames. Containers may explode when heated. Many liquids are lighter than water. Vapors may form explosive mixtures with air. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapors may travel to source of ignition and flash back. Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard.

- Hazardous Combustion Products** • No data available

Advice for firefighters

- Structural firefighters' protective clothing will only provide limited protection. Wear positive pressure self-contained breathing apparatus (SCBA). Move containers from fire area if you can do it without risk.
- LARGE FIRES: Cool containers with flooding quantities of water until well after fire is out.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

- Personal Precautions** • Ventilate enclosed areas. Do not walk through spilled material. Wear appropriate personal protective equipment, avoid direct contact. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- Emergency Procedures** • As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions. LARGE SPILL: Consider initial downwind evacuation for at least 300 meters (1000 feet) ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering.

Environmental precautions

- Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

- Containment/Clean-up Measures** • Stop leak if you can do it without risk. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Use clean non-sparking tools to collect absorbed material. A vapor suppressing foam may be used to reduce vapors. All equipment used when handling the product must be grounded. LARGE SPILLS: Dike far ahead of liquid spill for later disposal. LARGE SPILLS: Water spray may reduce vapor; but may not prevent ignition in closed spaces.

Section 7 - Handling and Storage

Precautions for safe handling

- Handling** • Use only in well ventilated areas. Avoid contact with heat and ignition sources. Do not use sparking tools. Take precautionary measures against static charges. All equipment used when handling the product must be grounded. Never siphon this product by mouth. Do not cut, drill, grind or weld on empty containers since they may

contain explosive residues. Wear appropriate personal protective equipment, avoid direct contact. Avoid breathing mist, vapours and/or spray. Avoid contact with skin, eyes, and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

Conditions for safe storage, including any incompatibilities

- Storage**
- Keep container tightly closed. Store in appropriately labeled containers. Store in a cool/low-temperature, well-ventilated place.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines				
	Result	ACGIH	NIOSH	OSHA
Ethanol (64-17-5)	TWAs	Not established	1000 ppm TWA; 1900 mg/m ³ TWA	1000 ppm TWA; 1900 mg/m ³ TWA
	STELs	1000 ppm STEL	Not established	Not established

Exposure controls

Engineering Measures/Controls

- Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Use explosion-proof electrical/ventilating/lighting/equipment.

Personal Protective Equipment

Respiratory

- In case of insufficient ventilation, wear suitable respiratory equipment.

Eye/Face

- Wear safety goggles.

Skin/Body

- Wear appropriate gloves.

Environmental Exposure Controls

- Follow best practice for site management and disposal of waste. Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

STEL = Short Term Exposure Limits are based on 15-minute exposures

NIOSH = National Institute of Occupational Safety and Health

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

OSHA = Occupational Safety and Health Administration

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description

Physical Form	Liquid	Appearance/Description	A clear liquid with hydrocarbon odor.
Color	Clear	Odor	Hydrocarbon
Odor Threshold	No data available		

General Properties

Boiling Point	90 to 437 F(32.2222 to 225 C)	Melting Point/Freezing Point	No data available
Decomposition Temperature	No data available	pH	Neutral
Specific Gravity/Relative Density	0.7 to 0.77 Water=1	Density	5.9 to 6.3 lbs/gal
Water Solubility	No data available	Viscosity	No data available

Volatility

Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available	VOC (Wt.)	100 %
VOC (Vol.)	100 %		
Flammability			
Flash Point	-50 to 55 F(-45.5556 to 12.7778 C)	UEL	19 % (Ethanol)
LEL	1.4 % (Gasoline)	Autoignition	495 F(257.2222 C)
Flammability (solid, gas)	No data available		
Environmental			
Octanol/Water Partition coefficient	No data available		

Section 10: Stability and Reactivity

Reactivity

- No dangerous reaction known under conditions of normal use.

Chemical stability

- Stable under normal temperatures and pressures.

Possibility of hazardous reactions

- Hazardous polymerization will not occur.

Conditions to avoid

- Excessive heat, sources of ignition and open flames.

Incompatible materials

- Strong oxidizers such as nitrates, chlorates, peroxides.

Hazardous decomposition products

- Combustion produces carbon monoxide, aldehydes, aromatic and other hydrocarbons.

Section 11 - Toxicological Information

Information on toxicological effects

Components		
Naphtha (petroleum), heavy catalytic reformed (2% TO 6%)	64741-68-0	Acute Toxicity: Ingestion/Oral-Rat LD50 • 4800 mg/kg; Behavioral:Somnolence (general depressed activity); Gastrointestinal:Hypermotility, diarrhea; Irritation: Skin-Rabbit • 500 mg • Severe irritation; Multi-dose Toxicity: Inhalation-Rat TClO • 10 g/m ³ 6 Hour(s) 3 Week(s)-Intermittent; <i>Sense Organs and Special Senses:Eye:Corneal damage; Behavioral:Coma; Related to Chronic Data:Death in the Other Multiple Dose data type field</i>
Ethanol (75% TO 85%)	64-17-5	Acute Toxicity: Ingestion/Oral-Rat LD50 • 7 g/kg; Ingestion/Oral-Human TDLo • 0.5 g/kg; Behavioral:Somnolence (general depressed activity); Behavioral:Changes in psychophysiological tests; Ingestion/Oral-Man TDLo • 3371 µL/kg; Behavioral:Altered sleep time (including change in righting reflex); Behavioral:Excitement; Behavioral:Coma; Ingestion/Oral-Rat TDLo • 8000 mg/kg; Brain and Coverings:Other degenerative changes; Cardiac:Cardiomyopathy including infarction; Liver:Multiple effects; Inhalation-Rat LC50 • 5900 mg/m ³ 6 Hour (s); Irritation: Eye-Rabbit • 500 mg • Severe irritation; Skin-Rabbit • 20 mg 24 Hour(s) • Moderate irritation; Multi-dose Toxicity: Ingestion/Oral-Rat TDLo • 188 g/kg 25 Day(s)-Intermittent; Liver:Fatty liver degeneration; Biochemical:Enzyme inhibition, induction, or change in blood or tissue levels:Multiple enzyme effects; Biochemical:Metabolism (intermediary):Lipids, including transport; Mutagen: Cytogenetic analysis • Ingestion/Oral-Human • 49014 g/kg 25 Year(s); Dominant lethal test • Ingestion/Oral-Mouse • 3720 mg/kg 3 Day(s); Sperm Morphology • Ingestion/Oral-Mouse • 1500 mg/kg 50 Day(s);

Reproductive: Ingestion/Oral-Rat TDLo • 12 g/kg (9-12D preg); *Reproductive Effects:Effects on Embryo or Fetus:Fetotoxicity (except death, e.g., stunted fetus)*; Ingestion/Oral-Woman TDLo • 5860 mL/kg (3Y pre-100D post); *Reproductive Effects:Specific Developmental Abnormalities:Craniofacial (including nose and tongue)*; *Reproductive Effects:Effects on Newborn:Behavioral*; *Reproductive Effects:Effects on Newborn:Delayed effects*;
Tumorigen / Carcinogen: Ingestion/Oral-Mouse • 400 g/kg 57 Week(s)-Intermittent; *Tumorigenic:Equivocal tumorigenic agent by RTECS criteria*; *Gastrointestinal:Tumors*; Ingestion/Oral-Mouse TDLo • 320 mg/kg 50 Week(s)-Intermittent; *Tumorigenic:Equivocal tumorigenic agent by RTECS criteria*; *Liver:Tumors*; *Blood:Lymphoma, including Hodgkin's disease*

GHS Properties	Classification
Respiratory sensitization	OSHA HCS 2012 • No data available
Serious eye damage/Irritation	OSHA HCS 2012 • Eye Irritation 2
Acute toxicity	OSHA HCS 2012 • Acute Toxicity - Inhalation 3 - ATEmix(inhl, vapors) = 7.226mg/L 4h
Aspiration Hazard	OSHA HCS 2012 • No data available
Carcinogenicity	OSHA HCS 2012 • No data available
Skin corrosion/Irritation	OSHA HCS 2012 • Skin Irritation 2
Skin sensitization	OSHA HCS 2012 • No data available
STOT-RE	OSHA HCS 2012 • No data available
STOT-SE	OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
Toxicity for Reproduction	OSHA HCS 2012 • No data available
Germ Cell Mutagenicity	OSHA HCS 2012 • Germ Cell Mutagenicity 2

Potential Health Effects

Inhalation

- Acute (Immediate)**
 - Toxic if inhaled. May affect the central nervous system. Symptoms may include dizziness, drowsiness, lethargy, coma and death.
- Chronic (Delayed)**
 - No data available.

Skin

- Acute (Immediate)**
 - Causes skin irritation.
- Chronic (Delayed)**
 - No data available.

Eye

- Acute (Immediate)**
 - Causes serious eye irritation.
- Chronic (Delayed)**
 - No data available.

Ingestion

- Acute (Immediate)**
 - May cause irritation of the mouth, throat and gastrointestinal tract. Symptoms may include salivation, pain, nausea, vomiting and diarrhea.
- Chronic (Delayed)**
 - No data available.

Mutagenic Effects

- Repeated and prolonged exposure may cause mutagenic effects.

Key to abbreviations

LD = Lethal Dose
 LC = Lethal Concentration
 TC = Toxic Concentration
 TD = Toxic Dose

Section 12 - Ecological Information

Toxicity

- Non-mandatory section - information about this substance not compiled for this reason.

Persistence and degradability

- Non-mandatory section - information about this substance not compiled for this reason.

Bioaccumulative potential

- Non-mandatory section - information about this substance not compiled for this reason.

Mobility in Soil

- Non-mandatory section - information about this substance not compiled for this reason.

Other adverse effects

- Non-mandatory section - information about this substance not compiled for this reason.

Section 13 - Disposal Considerations

Waste treatment methods

Product waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	UN number	UN proper shipping name	Transport hazard class (es)	Packing group	Environmental hazards
DOT	UN3475	Ethanol and gasoline mixture	3	II	NDA
TDG	UN3475	ETHANOL AND GASOLINE MIXTURE	3	II	NDA

Special precautions for user • None specified.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code • No data available

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications • Acute, Chronic, Fire

Inventory				
Component	CAS	Canada DSL	Canada NDSL	TSCA
Ethanol	64-17-5	Yes	No	Yes
Full-range alkylate (petroleum) naphtha	64741-64-6	Yes	No	Yes

Hydrocarbons, C3-11, catalytic cracker distillates	68476-46-0	Yes	No	Yes
Naphtha (petroleum), heavy catalytic reformed	64741-68-0	Yes	No	Yes
Naphtha (petroleum), isomerization	64741-70-4	No	Yes	Yes

Canada

Labor

Canada - WHMIS - Classifications of Substances

• Naphtha (petroleum), heavy catalytic reformed	64741-68-0	Not Listed
• Ethanol	64-17-5	B2, D2B
• Full-range alkylate (petroleum) naphtha	64741-64-6	Not Listed
• Naphtha (petroleum), isomerization	64741-70-4	Not Listed
• Hydrocarbons, C3-11, catalytic cracker distillates	68476-46-0	Not Listed

Canada - WHMIS - Ingredient Disclosure List

• Naphtha (petroleum), heavy catalytic reformed	64741-68-0	Not Listed
• Ethanol	64-17-5	0.1 %
• Full-range alkylate (petroleum) naphtha	64741-64-6	Not Listed
• Naphtha (petroleum), isomerization	64741-70-4	Not Listed
• Hydrocarbons, C3-11, catalytic cracker distillates	68476-46-0	Not Listed

Environment

Canada - CEPA - Priority Substances List

• Naphtha (petroleum), heavy catalytic reformed	64741-68-0	Not Listed
• Ethanol	64-17-5	Not Listed
• Full-range alkylate (petroleum) naphtha	64741-64-6	Not Listed
• Naphtha (petroleum), isomerization	64741-70-4	Not Listed
• Hydrocarbons, C3-11, catalytic cracker distillates	68476-46-0	Not Listed

United States

Labor

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

• Naphtha (petroleum), heavy catalytic reformed	64741-68-0	Not Listed
• Ethanol	64-17-5	Not Listed
• Full-range alkylate (petroleum) naphtha	64741-64-6	Not Listed
• Naphtha (petroleum), isomerization	64741-70-4	Not Listed
• Hydrocarbons, C3-11, catalytic cracker distillates	68476-46-0	Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

• Naphtha (petroleum), heavy catalytic reformed	64741-68-0	Not Listed
• Ethanol	64-17-5	Not Listed
• Full-range alkylate (petroleum) naphtha	64741-64-6	Not Listed
• Naphtha (petroleum), isomerization	64741-70-4	Not Listed
• Hydrocarbons, C3-11, catalytic cracker distillates	68476-46-0	Not Listed

Environment

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

• Naphtha (petroleum), heavy catalytic reformed	64741-68-0	Not Listed
• Ethanol	64-17-5	Not Listed
• Full-range alkylate (petroleum) naphtha	64741-64-6	Not Listed
• Naphtha (petroleum), isomerization	64741-70-4	Not Listed
• Hydrocarbons, C3-11, catalytic cracker distillates	68476-46-0	Not Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Naphtha (petroleum), heavy catalytic reformed	64741-68-0	Not Listed
• Ethanol	64-17-5	Not Listed
• Full-range alkylate (petroleum) naphtha	64741-64-6	Not Listed
• Naphtha (petroleum), isomerization	64741-70-4	Not Listed
• Hydrocarbons, C3-11, catalytic cracker distillates	68476-46-0	Not Listed

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

• Naphtha (petroleum), heavy catalytic reformed	64741-68-0	Not Listed
• Ethanol	64-17-5	Not Listed
• Full-range alkylate (petroleum) naphtha	64741-64-6	Not Listed
• Naphtha (petroleum), isomerization	64741-70-4	Not Listed
• Hydrocarbons, C3-11, catalytic cracker distillates	68476-46-0	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

• Naphtha (petroleum), heavy catalytic reformed	64741-68-0	Not Listed
• Ethanol	64-17-5	Not Listed
• Full-range alkylate (petroleum) naphtha	64741-64-6	Not Listed
• Naphtha (petroleum), isomerization	64741-70-4	Not Listed
• Hydrocarbons, C3-11, catalytic cracker distillates	68476-46-0	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

• Naphtha (petroleum), heavy catalytic reformed	64741-68-0	Not Listed
• Ethanol	64-17-5	Not Listed
• Full-range alkylate (petroleum) naphtha	64741-64-6	Not Listed
• Naphtha (petroleum), isomerization	64741-70-4	Not Listed
• Hydrocarbons, C3-11, catalytic cracker distillates	68476-46-0	Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• Naphtha (petroleum), heavy catalytic reformed	64741-68-0	Not Listed
• Ethanol	64-17-5	Not Listed
• Full-range alkylate (petroleum) naphtha	64741-64-6	Not Listed
• Naphtha (petroleum), isomerization	64741-70-4	Not Listed
• Hydrocarbons, C3-11, catalytic cracker distillates	68476-46-0	Not Listed

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

• Naphtha (petroleum), heavy catalytic reformed	64741-68-0	Not Listed
• Ethanol	64-17-5	Not Listed
• Full-range alkylate (petroleum) naphtha	64741-64-6	Not Listed
• Naphtha (petroleum), isomerization	64741-70-4	Not Listed
• Hydrocarbons, C3-11, catalytic cracker distillates	68476-46-0	Not Listed

United States - California

Environment

U.S. - California - Proposition 65 - Carcinogens List

• Naphtha (petroleum), heavy catalytic reformed	64741-68-0	Not Listed
• Ethanol	64-17-5	carcinogen, initial date 4/29/11 (in alcoholic beverages)

• Full-range alkylate (petroleum) naphtha	64741-64-6	Not Listed
• Naphtha (petroleum), isomerization	64741-70-4	Not Listed
• Hydrocarbons, C3-11, catalytic cracker distillates	68476-46-0	Not Listed
U.S. - California - Proposition 65 - Developmental Toxicity		
• Naphtha (petroleum), heavy catalytic reformed	64741-68-0	Not Listed
• Ethanol	64-17-5	Not Listed developmental toxicity, initial date 10/1/87 (in alcoholic beverages)
• Full-range alkylate (petroleum) naphtha	64741-64-6	Not Listed
• Naphtha (petroleum), isomerization	64741-70-4	Not Listed
• Hydrocarbons, C3-11, catalytic cracker distillates	68476-46-0	Not Listed
U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)		
• Naphtha (petroleum), heavy catalytic reformed	64741-68-0	Not Listed
• Ethanol	64-17-5	Not Listed
• Full-range alkylate (petroleum) naphtha	64741-64-6	Not Listed
• Naphtha (petroleum), isomerization	64741-70-4	Not Listed
• Hydrocarbons, C3-11, catalytic cracker distillates	68476-46-0	Not Listed
U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)		
• Naphtha (petroleum), heavy catalytic reformed	64741-68-0	Not Listed
• Ethanol	64-17-5	Not Listed
• Full-range alkylate (petroleum) naphtha	64741-64-6	Not Listed
• Naphtha (petroleum), isomerization	64741-70-4	Not Listed
• Hydrocarbons, C3-11, catalytic cracker distillates	68476-46-0	Not Listed
U.S. - California - Proposition 65 - Reproductive Toxicity - Female		
• Naphtha (petroleum), heavy catalytic reformed	64741-68-0	Not Listed
• Ethanol	64-17-5	Not Listed
• Full-range alkylate (petroleum) naphtha	64741-64-6	Not Listed
• Naphtha (petroleum), isomerization	64741-70-4	Not Listed
• Hydrocarbons, C3-11, catalytic cracker distillates	68476-46-0	Not Listed
U.S. - California - Proposition 65 - Reproductive Toxicity - Male		
• Naphtha (petroleum), heavy catalytic reformed	64741-68-0	Not Listed
• Ethanol	64-17-5	Not Listed
• Full-range alkylate (petroleum) naphtha	64741-64-6	Not Listed
• Naphtha (petroleum), isomerization	64741-70-4	Not Listed
• Hydrocarbons, C3-11, catalytic cracker distillates	68476-46-0	Not Listed

Other Information

- **WARNING:** This product contains a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm.

Section 16 - Other Information

Revision Date	• 03/November/2015
Preparation Date	• 30/November/2010
Disclaimer/Statement of Liability	• The information and recommendations contained herein are based upon tests believed to be reliable. However, Northern Tier Energy does not guarantee their accuracy or completeness nor shall any of this information constitute a warranty, whether expressed or implied, as to the safety of the goods, the merchantability of the goods,

or the fitness of the goods for a particular purpose. Adjustment to conform to actual conditions of usage maybe required. Northern Tier Energy assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.

Key to abbreviations

NDA = No data available
