CHS

SAFETY DATA SHEET

1. Identification

Product identifier Unleaded Gasoline with Ethanol E-15

Other means of identification

Synonyms E-15 * Light Petroleum Distillate * Mixed Petroleum Hydrocarbon

Recommended use Fuel.

Recommended restrictions Uses other than the recommended use.

Manufacturer/Importer/Supplier/Distributor information

Company name CHS Inc.

Address P.O. Box 64089

Mail Station 525

St. Paul, MN 55164-0089 United States of America

Telephone numbers Transportation Emergency (CHEMTREC):

1-800-424-9300

Technical Information: 1-651-355-8443 SDS Information: 1-651-355-8445

2. Hazard(s) identification

Physical hazardsFlammable liquidsCategory 1Health hazardsSkin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 2AGerm cell mutagenicityCategory 1B

Carcinogenicity Category 1A Reproductive toxicity Category 2

Specific target organ toxicity, single exposure Category 3 narcotic effects

Specific target organ toxicity, repeated

exposure

Specific target organ toxicity, repeated Category 2 (Central nervous system)

exposure

Aspiration hazard Category 1

Hazardous to the aquatic environment, acute hazard

Category 2

Category 1 (Hematopoietic system)

Hazardous to the aquatic environment,

long-term hazard

Category 2

OSHA defined hazards Not classified.

Label elements

Environmental hazards



Signal word Danger

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Hazard statement

Extremely flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. May cause genetic defects. May cause cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs (Hematopoietic system) through prolonged or repeated exposure. May cause damage to organs (Central nervous system) through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Precautionary statement

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. 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. Do not breathe mist/vapors. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Response

If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. 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 inhaled: Remove person to fresh air and keep comfortable for breathing. If exposed or concerned: Get medical advice/attention. In case of fire: Use appropriate media to extinguish. Collect spillage.

Storage **Disposal**

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

None.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Gasoline	86290-81-5	60 - 100
Toluene	108-88-3	0 - 30
Ethanol	64-17-5	≤ 15
Benzene	71-43-2	0 - 10
1,2,4-Trimethylbenzene	95-63-6	0 - 5
Ethylbenzene	100-41-4	0 - 5

Composition comments

Any concentration shown as a range is to protect confidentiality or is due to batch variation. All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Call a poison center or doctor/physician if you feel unwell.

Skin contact

Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and delayed

Aspiration may cause pulmonary edema and pneumonitis. Be aware that symptoms of chemical pneumonia (shortness of breath) may occur several hours after exposure. May cause drowsiness or dizziness. Narcosis. Headache. Nausea, vomiting. Behavioral changes. Decrease in motor functions. Unconsciousness. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Cyanosis (blue tissue condition, nails, lips, and/or skin). Prolonged exposure may cause chronic effects.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

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General information

Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed such as: Carbon monoxide. Carbon dioxide.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Water runoff can cause environmental damage.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards Extremely flammable liquid and vapor.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS. The product is insoluble in water.

Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Do not store above the following temperature: 113°C (235.4°F). Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Specifically Regulated Substan Components	Type	Value
Benzene (CAS 71-43-2)	STEL	5 ppm
	TWA	1 ppm
US. OSHA Table Z-1 Permissible Exposure Components	e Limits (PEL) for Air Contaminants Type	(29 CFR 1910.1000) Value
Ethanol (CAS 64-17-5)	PEL	1900 mg/m3
		1000 ppm
Ethylbenzene (CAS 100-41-4)	PEL	435 mg/m3
		100 ppm
US. OSHA Table Z-2 Permissible Exposure Components	E Limits (PEL) (29 CFR 1910.1000) Type	Value
Benzene (CAS 71-43-2)	Ceiling	25 ppm
	TWA	10 ppm
Toluene (CAS 108-88-3)	Ceiling	300 ppm
	TWA	200 ppm
US. ACGIH Threshold Limit Values (TLV)		
Components	Туре	Value
1,2,4-Trimethylbenzene (CAS 95-63-6)	TWA	10 ppm
Benzene (CAS 71-43-2)	TWA	0.02 ppm
Ethanol (CAS 64-17-5)	STEL	1000 ppm
Ethylbenzene (CAS 100-41-4)	TWA	20 ppm
Gasoline (CAS 86290-81-5)	STEL	500 ppm
	TWA	300 ppm
Toluene (CAS 108-88-3)	TWA	20 ppm
NIOSH. Immediately Dangerous to Life or	Health (IDLH) Values, as amended	
Components	Туре	Value
Benzene (CAS 71-43-2)	IDLH	1.2 %
		500 ppm
Ethanol (CAS 64-17-5)	IDLH	3.3 %
		3300 ppm
Ethylbenzene (CAS	IDLH	0.8 %
100-41-4)		
		800 ppm
Toluene (CAS 108-88-3)	IDLH	1.1 %
		500 ppm
US. NIOSH: Pocket Guide to Chemical Haa Components		Value
<u> </u>	Type	
4 O 4 T.:: 41 11	TWA	125 mg/m3
1,2,4-Trimethylbenzene (CAS 95-63-6)		25 nnm
(CAS 95-63-6)	QTEI	25 ppm
	STEL	1 ppm
(CAS 95-63-6)	STEL TWA TWA	

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Components	Туре	Value	
		1000 ppm	
Ethylbenzene (CAS 100-41-4)	STEL	545 mg/m3	
		125 ppm	
	TWA	435 mg/m3	
		100 ppm	
Toluene (CAS 108-88-3)	STEL	560 mg/m3	
		150 ppm	
	TWA	375 mg/m3	
		100 ppm	

Biological limit values

Δ	C	G	ı	н	
~	·	u	ı	п	

Components	Value	Determinant	Specimen	Sampling Time		
Benzene (CAS 71-43-2)	500 μg/g	t,t-Muconic acid	Creatinine in urine	*		
ACGIH Biological Exposure Indices (BEI)						
Components	Value	Determinant	Specimen	Sampling Time		
Benzene (CAS 71-43-2)	25 µg/g	S-Phenylmerca pturic acid	Creatinine in urine	*		
Ethylbenzene (CAS 100-41-4)	150 mg/g	Sum of mandelic acid and phenylglyoxylic acid	Creatinine in urine	*		
Toluene (CAS 108-88-3)	0.3 mg/g	o-Cresol, with hydrolysis	Creatinine in urine	*		
	0.03 mg/l	Toluene	Urine	*		
	0.02 mg/l	Toluene	Blood	*		

^{* -} For sampling details, please see the source document.

Exposure guidelines

US - California OELs: Skin designation

Benzene (CAS 71-43-2) Can be absorbed through the skin. Toluene (CAS 108-88-3) Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

Toluene (CAS 108-88-3) Skin designation applies.

US ACGIH Threshold Limit Values: Skin designation

Benzene (CAS 71-43-2) Danger of cutaneous absorption

Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. 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. Provide eyewash station and safety shower.

Individual protection measures, such as personal protective equipment

Wear chemical splash goggles, face shield, or safety glasses with side shields as appropriate for Eye/face protection

risk of exposure.

Skin protection

Wear appropriate chemical resistant gloves. Nitrile gloves are recommended. 4-8h break through Hand protection

time The most suitable glove must be chosen in consultation with the gloves supplier, who can

inform about the breakthrough time of the glove material.

Skin protection

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Long

sleeved clothing. Use of impervious boots is recommended.

Unleaded Gasoline with Ethanol E-15 968613 Version #: 01 Revision date: -Issue date: 22-August-2024 Respiratory protection If engineering controls do not maintain airborne concentrations below recommended exposure

limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Chemical respirator with organic vapor cartridge and full facepiece. Wear a NIOSH-approved (or equivalent) respirator as needed. In the United States of America, if respirators are used, a program should be instituted to assure

compliance with OSHA 29 CFR 1910.134.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state Liquid. Form Liquid.

Color Reddish. Golden brown.

Odor Gasoline.
Odor threshold 10 ppm

pH Not applicable (negligibly soluble in water).

Melting point/freezing point Initial boiling point and boiling

79.99 °F (26.66 °C)

Not available.

range

Flash point -49 °F (-45 °C) Pensky-Martens Closed Cup

Evaporation rate Slower.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) 1.4 % Explosive limit - upper (%) 7.6 %

Vapor pressure 53.3 kPa (68 °F (20 °C))

Vapor density 3 - 4 (Air = 1)

Relative density 0.68 - 0.78

Solubility(ies)

Solubility (water) Negligible.

Partition coefficient Not applicable, product is a mixture.

(n-octanol/water)

Auto-ignition temperature 495 - 849.99 °F (257.22 - 454.44 °C)

Decomposition temperatureNot available.ViscosityNot available.

Other information

Explosive properties Not explosive. **Oxidizing properties** Not oxidizing.

10. Stability and reactivity

ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or

sources of ignition. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents. Acids. Halogens. Alkalis. Hazardous decomposition No hazardous decomposition products are known.

products

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11. Toxicological information

Information on likely routes of exposure

Inhalation May cause drowsiness or dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be

harmful.

Skin contact Causes skin irritation.

Eye contact Causes serious eye irritation.

Ingestion Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious

chemical pneumonia.

Symptoms related to the physical, chemical and toxicological characteristics

Aspiration may cause pulmonary edema and pneumonitis. Be aware that symptoms of chemical pneumonia (shortness of breath) may occur several hours after exposure. May cause drowsiness or dizziness. Narcosis. Headache. Nausea, vomiting. Behavioral changes. Decrease in motor functions. Unconsciousness. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Cyanosis (blue tissue condition, nails, lips, and/or skin). Prolonged exposure may cause chronic effects.

Information on toxicological effects

Acute toxicity Not expected to be acutely toxic.

Components	Species	Test Results
1,2,4-Trimethylbenzene (CA	S 95-63-6)	
<u>Acute</u>		
Oral		
LD50	Rat	2720 - 3960 mg/kg
Benzene (CAS 71-43-2)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 8260 mg/kg
Inhalation		
Vapor		
LC50	Rat	44.66 mg/l, 4 Hours
Oral		
LD50	Rat	810 mg/l
Ethanol (CAS 64-17-5)		
<u>Acute</u>		
Dermal		
LD50	Rat	> 2000 mg/kg
Inhalation		
Vapor		
LC50	Mouse	39 g/m3, 4 Hours
Oral		
LD50	Rat	7000 - 11000 mg/kg
Ethylbenzene (CAS 100-41-	4)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	15400 mg/kg
Inhalation		
LC50	Rat	17.4 mg/l, 4 hours
Oral		
LD50	Rat	3500 - 4700 mg/kg
Toluene (CAS 108-88-3)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	12200 mg/kg

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Species Test Results Components

Inhalation

Vapor

LC50 Rat 28.1 mg/l, 4 Hours

Skin corrosion/irritation Serious eye damage/eye Causes skin irritation.

Causes serious eye irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity May cause genetic defects.

Carcinogenicity May cause cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

Benzene (CAS 71-43-2) 1 Carcinogenic to humans.

Ethylbenzene (CAS 100-41-4) 2B Possibly carcinogenic to humans. Gasoline (CAS 86290-81-5) 2B Possibly carcinogenic to humans.

Toluene (CAS 108-88-3) 3 Not classifiable as to carcinogenicity to humans.

NTP Report on Carcinogens

Benzene (CAS 71-43-2) Known To Be Human Carcinogen.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Benzene (CAS 71-43-2) Cancer

Reproductive toxicity Suspected of damaging fertility or the unborn child.

Specific target organ toxicity -

single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity -

repeated exposure

Causes damage to organs (Hematopoietic system) through prolonged or repeated exposure. May

cause damage to organs (Central nervous system) through prolonged or repeated exposure.

Aspiration hazard May be fatal if swallowed and enters airways.

Chronic effects Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

12. Ecological information

Ecotoxicity Toxic to aquatic life with long lasting effects.

ad minnow (Pimephales promelas) 7.72 mg/l, 96 hours
dokirchneriella subcapitata 29 mg/l, 72 Hours
nia magna 10 mg/l, 48 hours
rhynchus mykiss 5.3 mg/l, 96 hours
astrum capricornutum 41 mg/l, 8 days
daphnia dubia 3 mg/l, 7 days
ohales promelas 0.8 mg/l, 32 days
daphnia dubia 5012 mg/l, 48 hours
nia magna 454 mg/l, 11 days
ma magna 454 mg/i, i i days

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Components		Species	Test Results
Chronic			
Crustacea	NOEC	Ceriodaphnia dubia	9.6 mg/l, 10 days
Ethylbenzene (CAS 10	00-41-4)		
Aquatic			
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	1.81 - 2.38 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	4.2 mg/l, 96 hours
Chronic			
Crustacea	EC50	Ceriodaphnia dubia	3.6 mg/l, 7 days
Toluene (CAS 108-88-	-3)		
Aquatic			
Acute			
Crustacea	EC50	Daphnia magna	11.5 mg/l, 48 hours
Fish	LC50	Oncorhynchus kisutch	5.5 mg/l, 96 hours
Chronic			
Crustacea	NOEC	Ceriodaphnia dubia	0.74 mg/l, 7 days
Fish	NOEC	Oncorhynchus kisutch	1.4 mg/l, 40 days

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient n-octanol / water (log Kow)

 1,2,4-Trimethylbenzene (CAS 95-63-6)
 3.78

 Benzene (CAS 71-43-2)
 2.13

 Ethanol (CAS 64-17-5)
 -0.31

 Ethylbenzene (CAS 100-41-4)
 3.15

 Toluene (CAS 108-88-3)
 2.73

Mobility in soil The product is insoluble in water.

Other adverse effects Oil spills are generally hazardous to the environment. The product contains volatile organic

compounds which have a photochemical ozone creation potential. This product contains one or more substances identified as hazardous air pollutants (HAPs) per the US Federal Clean Air Act

(see section 15).

13. Disposal considerations

Disposal instructionsDispose of this material and its container to hazardous or special waste collection point. Incinerate

the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in

accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code D001: Waste Flammable material with a flash point <140 F

D018: Waste Benzene

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

14. Transport information

DOT

UN number UN3475

UN proper shipping name Ethanol and gasoline mixture or Ethanol and motor spirit mixture or Ethanol and petrol mixture,

with more than 10 percent alcohol

Transport hazard class(es)

Unleaded Gasoline with Ethanol E-15

Class 3 Subsidiary hazard -

Label(s) 3 **Packing group** Ш

Environmental hazards

Marine pollutant Yes

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

144, 177, IB2, T4, TP1 Special provisions

Packaging exceptions 150 Packaging non bulk 202 Packaging bulk 242

IATA

UN number UN3475

UN proper shipping name Ethanol and petrol mixture with more than 10% ethanol

Transport hazard class(es)

Class 3 **Subsidiary hazard** Packing group Ш **Environmental hazards** Yes **ERG Code** 3L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number UN3475

ETHANOL AND GASOLINE MIXTURE or ETHANOL AND MOTOR SPIRIT MIXTURE or **UN** proper shipping name

ETHANOL AND PETROL MIXTURE, with more than 10% ethanol

Transport hazard class(es)

Class 3 **Subsidiary hazard** Ш Packing group **Environmental hazards**

Marine pollutant Yes F-E. S-E **EmS**

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

Not established.

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Benzene (CAS 71-43-2)

Central nervous system

Blood Aspiration Skin Eye

respiratory tract irritation

Flammability

One or more components of the mixture are not on the TSCA 8(b) inventory **Toxic Substances Control Act (TSCA)**

or are designated "inactive".

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

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SARA 311/312 Hazardous

chemical

Yes

Classified hazard categories

Flammable (gases, aerosols, liquids, or solids)

Skin corrosion or irritation

Serious eye damage or eye irritation

Germ cell mutagenicity Carcinogenicity Reproductive toxicity

Specific target organ toxicity (single or repeated exposure)

Aspiration hazard

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
1,2,4-Trimethylbenzene	95-63-6	0 - 5	
Benzene	71-43-2	0 - 10	
Ethylbenzene	100-41-4	0 - 5	
Toluene	108-88-3	0 - 30	

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Benzene (CAS 71-43-2) Ethylbenzene (CAS 100-41-4) Toluene (CAS 108-88-3)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Contains component(s) regulated under the Safe Drinking Water Act.

(SDWA)

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Toluene (CAS 108-88-3) 6594

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Toluene (CAS 108-88-3) 35 %WW

DEA Exempt Chemical Mixtures Code Number

Toluene (CAS 108-88-3) 594

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

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Ethanol (CAS 64-17-5) Low priority

US state regulations

US. Massachusetts RTK - Substance List

1,2,4-Trimethylbenzene (CAS 95-63-6)

Benzene (CAS 71-43-2) Ethanol (CAS 64-17-5) Ethylbenzene (CAS 100-41-4) Toluene (CAS 108-88-3)

US. New Jersey Worker and Community Right-to-Know Act

1,2,4-Trimethylbenzene (CAS 95-63-6)

Benzene (CAS 71-43-2) Ethanol (CAS 64-17-5) Ethylbenzene (CAS 100-41-4) Toluene (CAS 108-88-3)

US. Pennsylvania Worker and Community Right-to-Know Law

1,2,4-Trimethylbenzene (CAS 95-63-6)

Benzene (CAS 71-43-2) Ethanol (CAS 64-17-5) Ethylbenzene (CAS 100-41-4) Gasoline (CAS 86290-81-5) Toluene (CAS 108-88-3)

US. Rhode Island RTK

1,2,4-Trimethylbenzene (CAS 95-63-6)

Benzene (CAS 71-43-2) Ethanol (CAS 64-17-5) Ethylbenzene (CAS 100-41-4) Toluene (CAS 108-88-3)

968613 Version #: 01 Revision date: -

Unleaded Gasoline with Ethanol E-15

California Proposition 65



WARNING: This product can expose you to chemicals including Benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

Benzene (CAS 71-43-2) Listed: February 27, 1987 Ethylbenzene (CAS 100-41-4) Listed: June 11, 2004

California Proposition 65 - CRT: Listed date/Developmental toxin

Benzene (CAS 71-43-2) Listed: December 26, 1997 Toluene (CAS 108-88-3) Listed: January 1, 1991

California Proposition 65 - CRT: Listed date/Male reproductive toxin

Benzene (CAS 71-43-2) Listed: December 26, 1997

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

Issue date 22-August-2024

Revision date Version # 01

Health: 3* **HMIS®** ratings Flammability: 4

Physical hazard: 0

NFPA ratings



Disclaimer

Notice to reader:

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