

# Safety Data Sheet: GASGUARD

Supersedes Date: 07/13/2020

Issuing Date: 01/31/2022

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** GASGUARD  
**Recommended use** Fuel additive  
**Information on Manufacturer**  
CHEMSEARCH FE DIV. OF NCH CORP.  
BOX 152170  
IRVING, TX 75015

**Product Code:** 0853  
**Chemical nature** Solvent mixture  
**Emergency Telephone**  
CHEMTREC® 800-424-9300  
**Telephone inquiry**  
972-579-2477

## 2. HAZARD IDENTIFICATION

**Color** Yellow-Amber

**Physical state** Liquid

**Odor** Solvent

### GHS

#### Classification

##### Physical Hazards

Flammable liquids

Category 2

##### Health Hazard

Aspiration Toxicity

Category 1

Acute Inhalation Toxicity - Gas

Category 4

Acute toxicity - Inhalation (Dusts/Mists)

Category 4

Skin Corrosion/Irritation

Category 2

Serious Eye Damage/Eye Irritation

Category 2A

Reproductive Toxicity

Category 2

Carcinogenicity

Category 2

Specific target organ systemic toxicity (single exposure)

Category 3

Specific target organ toxicity (repeated exposure)

Category 2

##### Other hazards

None

### Labeling

#### Signal Word

**DANGER**



#### Hazard statements

H225 - Highly flammable liquid and vapor

H332 - Harmful if inhaled

H336 - May cause drowsiness or dizziness

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H304 - May be fatal if swallowed and enters airways

H373 - May cause damage to organs through prolonged or repeated exposure

H351 - Suspected of causing cancer

H361 - Suspected of damaging fertility or the unborn child

#### Precautionary Statements

P202 - Do not handle until all safety precautions have been read and understood

P210 - Keep away from heat, sparks, open flames or hot surfaces.

P233 - Keep container tightly closed.

P240 - Ground/bond container and receiving equipment

P241 - Use explosion-proof electrical, ventilating and lighting equipment

P242 - Use only non-sparking tools

P243 - Take precautionary measures against static discharge

P270 - Do not eat, drink or smoke when using this product

P280 - Wear protective gloves, protective clothing and eye protection.

P264 - Wash face, hands and any exposed skin thoroughly after handling.

P260 - Do not breathe mist or gas

P271 - Use in a well-ventilated area.

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P312 - Call a physician if unwell.

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P332 + P313 - If skin irritation occurs, get medical attention.

P363 - Wash contaminated clothing before reuse

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 attention.

P301+ P330 + P331 - IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a

physician if unwell.  
 P308 + P313 - IF exposed or concerned, get medical attention  
 P403 + P235 - Store in a well-ventilated place. Keep cool  
 P501 - Dispose of contents and container in accordance with applicable regulations

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Weight-%
Xylenes (o-, m-, p- isomers)	1330-20-7	30-60
Ethanol	64-17-5	10-30
Ethyl benzene	100-41-4	10-30
Petroleum naphtha, light aromatic	64742-95-6	3-7
1,2,4- Trimethylbenzene	95-63-6	1-5
Cumene	98-82-8	0.1-1.0

\*The exact percentage (concentration) of composition has been withheld as a trade secret

### 4. FIRST AID MEASURES

<b>General advice</b>	Do not breathe mist or gas. Avoid contact with skin, eyes and clothing.
<b>Eye Contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately.
<b>Skin Contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention if irritation develops and persists. Wash contaminated clothing before re-use.
<b>Inhalation</b>	Move to fresh air. In case of shortness of breath, give oxygen. If breathing has stopped, apply artificial artificial respiration. Get medical attention immediately.
<b>Ingestion</b>	Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.
<b>Notes to physician</b>	Aspiration hazard if swallowed - can enter lungs and cause damage. May be fatal if swallowed and enters airways.

### 5. FIRE-FIGHTING MEASURES

<b>Flash Point</b> 61 °F / 16 °C	<b>Method</b> Cleveland open cup (COC)	
<b>Flammability Limits in Air %:</b> Mixture.	<b>Upper:</b> 19	<b>Lower:</b> 0.8
<b>Suitable Extinguishing Media</b>		
Alcohol-resistant foam. Dry chemical. Carbon dioxide (CO <sub>2</sub> ). Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
<b>Specific hazards arising from the chemical</b>		
Flammable. Solvent vapors are heavier than air and may spread along floors. Vapors may ignite and explode. The product is insoluble and floats on water. Material can create slippery conditions.		
<b>Protective Equipment and Precautions for Firefighters</b>		
As in any fire, wear self-contained breathing apparatus pressure-demand, NOHSC (approved or equivalent) and full protective gear.		
<b>NFPA</b>	<b>Health</b> 2	<b>Flammability</b> 3
		<b>Instability</b> 0
<b>HMIS -</b>	<b>Health</b> 2	<b>Flammability</b> 3
		<b>Physical Hazard</b> 0

### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Use personal protective equipment. Ensure adequate ventilation. Take precautionary measures against static discharges. Remove all sources of ignition. Materials can create slippery conditions.
<b>Environmental precautions</b>	Do not flush into surface water or sanitary sewer system.
<b>Methods for Containment</b>	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
<b>Methods for Cleaning Up</b>	Use clean non-sparking tools to collect absorbed material. Pick up and transfer to properly labeled containers.
<b>Neutralizing Agent</b>	Not applicable.

### 7. HANDLING AND STORAGE

<b>Handling</b>	Keep away from open flames, hot surfaces and sources of ignition. Do not breathe mist or gas. Avoid contact with skin, eyes and clothing.
<b>Storage</b>	Keep away from heat and sources of ignition. Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place.
<b>Storage Temperature</b>	<b>Minimum</b> 36 °F / 2 °C
<b>Storage Conditions</b>	<b>Indoor</b> X <b>Outdoor</b> <b>Maximum Heated</b> 100 °F / 38 °C <b>Refrigerated</b>

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

## Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Xylenes (o-, m-, p- isomers)	TWA: 100 ppm STEL: 150 ppm	TWA: 100 ppm TWA: 435 mg/m <sup>3</sup>	No data available
Ethanol	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>	3300 ppm TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>
Ethyl benzene	TWA: 20 ppm	TWA: 100 ppm TWA: 435 mg/m <sup>3</sup>	800 ppm STEL 125 ppm STEL 545 mg/m <sup>3</sup> TWA: 100 ppm TWA: 435 mg/m <sup>3</sup>
1,2,4- Trimethylbenzene	TWA: 25 ppm	No data available	TWA: 25 ppm TWA: 125 mg/m <sup>3</sup>
Cumene	TWA: 5 ppm	TWA: 50 ppm TWA: 245 mg/m <sup>3</sup> Skin	900 ppm TWA: 50 ppm TWA: 245 mg/m <sup>3</sup>

## Engineering Measures

Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

## Personal Protective Equipment

## Eye/Face Protection

Tightly fitting safety goggles.

## Skin Protection

For prolonged or repeated contact, use protective gloves with appropriate chemical resistance.

## Respiratory Protection

In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

## General Hygiene Considerations

Wear protective gloves/clothing. Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid	Viscosity	1.150 cSt @ 25°C
Color	Yellow-Amber	Odor	Solvent
Odor Threshold	Not applicable	Appearance	Transparent
pH	Not applicable	Specific Gravity	0.850
Evaporation Rate	No data available	Percent Volatile (Volume)	>90
VOC Content (%)	90.31	VOC Content (g/L)	767.64
Vapor pressure	31.49 mmHg @ 70°F	Vapor Density	No data available
Solubility	Negligible	n-Octanol/Water Partition	No data available
Melting Point/Range	No data available	Decomposition Temperature	No data available
Boiling Point/Range	Not applicable	Flammability (solid, gas)	No data available
Flash Point	61 °F / 16 °C	Method	Cleveland open cup (COC)
Autoignition Temperature	No information available.		
Flammability Limits in Air %:	Mixture	Upper: 19 Lower: 0.8	

## 10. STABILITY AND REACTIVITY

## Chemical Stability

Stable. Hazardous polymerization does not occur.

## Conditions to Avoid

Keep away from open flames, hot surfaces, and sources of ignition, Protect from direct sunlight and extremes of temperatures.

## Incompatible Products

Strong oxidizing agents, Reducing agents, Acids, Bases, Aldehydes, Highly halogenated compounds, Amines.

## Decomposition Temperature

No data available

## Hazardous Decomposition Products

Carbon oxides, Nitrogen oxides (NOx).

## Possibility of Hazardous Reactions

None under normal processing.

## 11. TOXICOLOGICAL INFORMATION

Product Information No information available.

## The following values are calculated based on chapter 3.1 of the GHS document

Oral LD50 No information available

Dermal LD50 No information available

## Inhalation LC50

Gas No information available

Mist No information available

Vapor No information available

**Principle Route of Exposure**

Inhalation, Skin contact, Eye contact.

**Primary Routes of Entry**

Skin contact, Skin Absorption.

**Acute Effects:****Eyes**

Causes serious eye irritation.

**Skin**

Causes skin irritation.

**Inhalation**

Harmful by inhalation. May cause drowsiness and dizziness.

**Ingestion**

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration hazard if swallowed - can enter lungs and cause damage. May be fatal if swallowed and enters airways.

**Chronic Toxicity**

Contains a known or suspected carcinogen. Contains a known or suspected reproductive toxin. May cause damage to organs through prolonged or repeated exposure.

**Target Organ Effects:**

Central nervous system, Liver, Blood, Respiratory system, Reproductive System, Skin, Eyes.

**Aggravated Medical Conditions**

Respiratory disorders, Skin disorders, Neurological disorders, Liver disorders, Blood disorders.

## Component Information

**Acute Toxicity**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50	Draize Test	Other
Xylenes (o-, m-, p- isomers) 1330-20-7	= 4300 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 5.04 mg/L ( Rat ) 4 h	No data available	No data available
Ethanol 64-17-5	= 7060 mg/kg ( Rat )	no data available	= 116.9 mg/L ( Rat ) 4 h	No data available	No data available
Ethyl benzene 100-41-4	= 3500 mg/kg ( Rat )	15354 mg/kg ( Rabbit )	= 17.2 mg/L ( Rat ) 4 h	No data available	No data available
Petroleum naphtha, light aromatic 64742-95-6	= 8400 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	= 3400 ppm ( Rat ) 4 h	No data available	No data available
1,2,4- Trimethylbenzene 95-63-6	= 3280 mg/kg ( Rat )	> 3160 mg/kg ( Rabbit )	= 18 g/m <sup>3</sup> ( Rat ) 4 h	No data available	No data available
Cumene 98-82-8	1400 mg/kg ( Rat )	= 12300 µL/kg ( Rabbit )	> 3577 ppm ( Rat ) 6 h	No data available	No data available

**Chronic Toxicity**

Chemical name	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Ethanol 64-17-5	X	No data available	yes	X	Blood; Skin; Central nervous system; Eyes; Respiratory system; Reproductive System; Liver
Ethyl benzene 100-41-4	No data available	No data available	No data available	No data available	Skin; Central nervous system; Eyes; Respiratory system
1,2,4- Trimethylbenzene 95-63-6	No data available	No data available	No data available	No data available	Blood; Skin; Central nervous system; Eyes; Respiratory system
Cumene 98-82-8	No data available	No data available	No data available	No data available	Skin; Central nervous system; Eyes; Respiratory system

**Carcinogenicity**

Chemical name	ACGIH	IARC	NTP	OSHA	Other
Xylenes (o-, m-, p- isomers) 1330-20-7	A4	Group 3	Not applicable	Not applicable	Not applicable
Ethanol 64-17-5	A3	Not applicable	Not applicable	Not applicable	Not applicable
Ethyl benzene 100-41-4	A3	Group 2B	Not applicable	X	Not applicable
Cumene 98-82-8	A3	Group 2B	Reasonably Anticipated	X	Not applicable

**12. ECOLOGICAL INFORMATION**

## Product Information

No information available.

Additional Ecological Information: No information available

## Component Information

Chemical name	Toxicity to Algae	Toxicity to Fish	Microtox	Crustacea	Partition coefficient
Xylenes (o-, m-, p- isomers)	EC50 = 11 mg/L Pseudokirchneriella subcapitata 72 h	LC50 13.1 - 16.5 mg/L Lepomis macrochirus 96 h LC50 13.5 - 17.3 mg/L Oncorhynchus mykiss 96 h LC50 2.661 - 4.093 mg/L Oncorhynchus mykiss 96 h	EC50 = 0.0084 mg/L 24 h	0.6: 48 h Gammarus lacustris mg/L LC50 3.82: 48 h water flea mg/L EC50	3.15

		LC50 23.53 - 29.97 mg/L Pimephales promelas 96 h LC50 30.26 - 40.75 mg/L Poecilia reticulata 96 h LC50 7.711 - 9.591 mg/L Lepomis macrochirus 96 h LC50 = 13.4 mg/L Pimephales promelas 96 h LC50 = 19 mg/L Lepomis macrochirus 96 h LC50 = 780 mg/L Cyprinus carpio 96 h LC50 > 780 mg/L Cyprinus carpio 96 h			
Ethanol	No information available.	CL50 (Pimephales promelas, 96h): > 100 mg/L	No information available	CL50 (Daphnia magna, 48h): > 100 mg/L	-0.32
Ethyl benzene	EC50 1.7 - 7.6 mg/L Pseudokirchneriella subcapitata 96 h EC50 2.6 - 11.3 mg/L Pseudokirchneriella subcapitata 72 h EC50 = 11 mg/L Pseudokirchneriella subcapitata 72 h EC50 = 4.6 mg/L Pseudokirchneriella subcapitata 72 h EC50 > 438 mg/L Pseudokirchneriella subcapitata 96 h	LC50 11.0 - 18.0 mg/L Oncorhynchus mykiss 96 h LC50 7.55 - 11 mg/L Pimephales promelas 96 h LC50 9.1 - 15.6 mg/L Pimephales promelas 96 h LC50 = 32 mg/L Lepomis macrochirus 96 h LC50 = 4.2 mg/L Oncorhynchus mykiss 96 h LC50 = 9.6 mg/L Poecilia reticulata 96 h	EC50 = 9.68 mg/L 30 min EC50 = 96 mg/L 24 h	1.8 - 2.4: 48 h Daphnia magna mg/L EC50	3.2
Petroleum naphtha, light aromatic	No information available.	LC50 = 9.22 mg/L Oncorhynchus mykiss 96 h	No information available	6.14: 48 h Daphnia magna mg/L EC50	N/A
1,2,4- Trimethylbenzene	No information available.	LC50 7.19 - 8.28 mg/L Pimephales promelas 96 h LC50 = 7.72 mg/L Pimephales promelas 96 h	No information available	6.14: 48 h Daphnia magna mg/L EC50	3.63
Cumene	EC50 = 2.6 mg/L Pseudokirchneriella subcapitata 72 h	LC50 6.04 - 6.61 mg/L Pimephales promelas 96 h LC50 = 2.7 mg/L Oncorhynchus mykiss 96 h LC50 = 4.8 mg/L Oncorhynchus mykiss 96 h LC50 = 5.1 mg/L Poecilia reticulata 96 h	EC50 = 0.89 mg/L 5 min EC50 = 1.10 mg/L 15 min EC50 = 1.48 mg/L 30 min EC50 = 172 mg/L 24 h	7.9 - 14.1: 48 h Daphnia magna mg/L EC50 Static 0.6: 48 h Daphnia magna mg/L EC50	3.7

**Persistence and Degradability**  
**Bioaccumulation**  
**Mobility**

No information available.  
No information available.  
No information available.

### 13. DISPOSAL CONSIDERATIONS

**Product Disposal**  
**Container Disposal**

Dispose of in accordance with local regulations.  
Empty containers should be taken for local recycling, recovery, or waste disposal. Do not re-use empty containers.

### 14. TRANSPORT INFORMATION

**DOT**

**Proper Shipping Name** Flammable liquids, n.o.s.  
**Hazard Class** 3  
**UN-No** UN1993  
**Packing Group** II  
**Description** Flammable liquids, n.o.s. ((Xylene,Ethylbenzene),3,UN1993,PG II

**TDG**

**Proper shipping name** Flammable liquid, n.o.s.  
**Hazard Class** 3  
**UN-No** UN1993  
**Packing Group** II  
**Description** FLAMMABLE LIQUID, N.O.S.(Xylene, Ethylbenzene),3,UN1993,PG II

## ICAO

UN-No UN1993  
 Proper Shipping Name Flammable liquid, n.o.s.  
 Hazard Class 3  
 Packing Group II  
 Shipping Description Flammable liquid, n.o.s. (Xylene, Ethylbenzene),3,UN1993,PG II

## IATA

UN-No UN1993  
 Proper Shipping Name Flammable liquid, n.o.s.  
 Hazard Class 3  
 Packing Group II  
 ERG-Code 3H  
 Shipping Description UN1993,Flammable liquid, n.o.s.(Xylene, Ethylbenzene),3,PG II

## IMDG/IMO

UN proper shipping name Flammable liquid, n.o.s.  
 Hazard Class 3  
 UN Number UN1993  
 Packing Group II  
 EmS No. F-E, \_S-E\_  
 Description UN1993, Flammable liquid, n.o.s.(Xylene, Ethylbenzene),3,PG II

## 15. REGULATORY INFORMATION

## Inventories

TSCA Listed  
 DSL / NDSL Listed

## U.S. Federal Regulations

## 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 of the Code of Federal Regulations, Part 372:

Chemical name	CAS No.	Weight-%	SARA 313 - Threshold Values
Xylenes (o-, m-, p- isomers)	1330-20-7	30-60	1.0
Ethyl benzene	100-41-4	10-30	0.1
1,2,4- Trimethylbenzene	95-63-6	1-5	1.0

## SARA 311/312 Hazardous Categorization

See Section 2

## CERCLA

Chemical name	Hazardous Substances RQs	CERCLA EHS RQs
Xylenes (o-, m-, p- isomers)	100 lb	Not applicable
Ethyl benzene	1000 lb	Not applicable
Cumene	5000 lb	Not applicable

## 16. OTHER INFORMATION

Prepared By Pamela Starkey  
 Supersedes Date: 07/13/2020  
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 Reason for Revision No information available.  
 Glossary No information available.  
 List of References. No information available.

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